Test Report issued under the responsibility of:

TÜVRheinland®

TEST REPORT
IEC 61347-2-13
Part 2: Particular requirements: Section 13 – d.c. or a.c. supplied electronic controlgear for LED modules

Report Number..... :	50226014 001
Date of issue..... :	Apr. 17, 2019
Total number of pages..... :	151
Name of Testing Laboratory preparing the Report..... :	TÜV Rheinland (Shenzhen) Co., Ltd.
Applicant's name..... :	Dongguan Rico Electronic Co., Ltd.
Address..... :	Shangling Industrial Park, Hengli Town, Dongguan City, 523460 Guangdong, China
Test specification:	
Standard..... :	IEC 61347-2-13:2014/AMD1:2016 used in conjunction with IEC 61347-1:2015
Test procedure..... :	CB Scheme
Non-standard test method.....:	N/A
Test Report Form No..... :	IEC61347_2_13F
Test Report Form(s) Originator ... :	Intertek Semko AB
Master TRF..... :	2016-10

If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.

This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

General disclaimer:

The test results presented in this report relate only to the object tested.
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Test item description .....:	LED Power Supply
Trade Mark.....:	RICO ELECTRONIC
Manufacturer.....:	Same as applicant
Model/Type reference.....:	RKPO-zzxxxyyyy, RKPO-zzxxxyyyyCD-5, RKP-zzxxxyyyyDP-5, RKP-zzxxxyyyyCD-5, RKPO-zzxxxyyyy-D2, RKPO-zzxxxyyyyDP-2, RKPO-EUxxxyyyyDP-2A, RKPO-zzxxxyyyyCD-2, RKP-zzxxxyyyyDP-2, RKPO-zzxxxyyyy-D1, RKPO-zzxxxyyyyCD-1 and RKP-zzxxxyyyyDP-1 (for xxx, yyyy and zz, see page 14 for details)
Ratings .....:	I/P: 100-240Vac, 50/60Hz, 0.6A (for models RKPO-zzxxxyyyy, RKPO-zzxxxyyyyCD-5, RKP-zzxxxyyyyDP-5, RKP-zzxxxyyyyCD-5) 100-240Vac, 50/60Hz, 0.3A (for models RKPO-zzxxxyyyy-D2, RKPO-zzxxxyyyyDP-2, RKPO-EUxxxyyyyDP-2A, RKPO-zzxxxyyyyCD-2, RKP-zzxxxyyyyDP-2, RKPO-zzxxxyyyy-D1, RKPO-zzxxxyyyyCD-1 and RKP-zzxxxyyyyDP-1) O/P: see pages 15-16 for details

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):			
☒	**CB Testing Laboratory:**	**TÜV Rheinland (Shenzhen) Co., Ltd.**	
Testing location/ address.....:		East of F/1, F/2~F/4, Building 1, Cybio Technology Building No. 6 Langshan No.2 Road, North Hi-tech Industry Park 518057 Shenzhen Nanshan District China	
Tested by (name, function, signature).....:		Jet Luo (Project Handler)	
Approved by (name, function, signature) .:		Jammy Zhang (Reviewer)	
☐	**Testing procedure: CTF Stage 1:**		
Testing location/ address.....:			
Tested by (name, function, signature).....:			
Approved by (name, function, signature) .:			
☐	**Testing procedure: CTF Stage 2:**		
Testing location/ address.....:			
Tested by (name + signature).....:			
Witnessed by (name, function, signature) :			
Approved by (name, function, signature) .:			
☐	**Testing procedure: CTF Stage 3:**		
☐	**Testing procedure: CTF Stage 4:**		
Testing location/ address.....:			
Tested by (name, function, signature).....:			
Witnessed by (name, function, signature) :			
Approved by (name, function, signature) .:			
Supervised by (name, function, signature):			

List of Attachments (including a total number of pages in each attachment):

- Attachment 1: IP degree test report for models RKPO-EUxxxyyyy, RKPO-zzxxxyyyyCD-5, RKPO-EUxxxyyyy-D2, RKPO-EUxxxyyyy-DP-2, RKPO-EUxxxyyyy-DP-2A, RKPO-zzxxxyyyyCD-2, RKPO-EUxxxyyyy-D1, RKPO-zzxxxyyyyCD-1 (6 pages)
- Attachment 2: UK plug test report for models RKPO-UKxxxyyyy, RKPO-UKxxxyyyy-D2, RKPO-UKxxxyyyy-D1 (5 pages)
- Attachment 3: German plug test report for models RKPO-EUxxxyyyy, RKPO-EUxxxyyyy-D2, RKPO-EUxxxyyyy-D1 (49 pages)
- Attachment 4: UK plug test report for models RKP-UKxxxyyyyDP-5 (5 pages)
- Attachment 5: UK plug test report for models RKPO-UKxxxyyyyDP-2 (5 pages)
- Attachment 6: UK plug test report for models RKP-UKxxxyyyyDP-2 (5 pages)
- Attachment 7: UK plug test report for models RKP-UKxxxyyyyDP-1 (5 pages)
- Attachment 8: EU plug test report for models RKP-EUxxxyyyyDP-2 (5 pages)
- Attachment 9: EU plug test report for models RKP-EUxxxyyyyDP-1 (5 pages)
- Attachment 10: 42 pages of photo document

Summary of testing:

Tests performed (name of test and test clause):	**Testing location:**
All applied clauses of IEC 61347-2-13:2014/AMD1:2016, IEC 61347-1: 2015 were considered. Note: 1. Maximum ambient temperature: 40°C 2. The following tests have been made on representative models: 3. Unless otherwise specified, all tests were performed on models RKPO-EU0503000, RKPO-EU1202000, RKPO-EU2401000, RKPO-UK0401500-D1, RKPO-UK0900666-D1, RKPO-UK1900315-D1, RKPO-UK2400250-D1, RKPO-UK0602000-D2, RKPO-UK1101090-D2, RKPO-UK1900630-D2, RKPO-UK2400500-D2, RKPO-EU0503000CD-5, RKPO-EU1202000CD-5, RKPO-EU2401000CD-5, RKP-EU0503000CD-5, RKP-EU1202000CD-5, RKP-EU2401000CD-5, RKPO-EU0602000DP-2, RKPO-EU1101090DP-2, RKPO-EU1900630DP-2, RKPO-EU2400500DP-2, RKPO-EU0602000DP-2A, RKPO-EU1101090DP-2A, RKPO-EU1900630DP-2A, RKPO-EU2400500DP-2A, RKPO-EU0602000CD-2, RKPO-EU1101090CD-2, RKPO-EU1900630CD-2, RKPO-EU2400500CD-2, RKP-EU0602000DP-2, RKP-EU1101090DP-2, RKP-EU1900630DP-2, RKP-EU2400500DP-2, RKPO-UK0401500CD-1, RKPO-UK0900666CD-1, RKPO-UK1900315CD-1, RKPO-UK2400250CD-1, RKP-UK0401500DP-1, RKP-UK0900666DP-1, RKP-UK1900315DP-1, RKP-UK2400250DP-1 which represent all models. 4. All test above are derived from original CB reports 17057899 001 and 17057899 003 except for test data of models RKPO-EU0503000CD-5, RKPO-EU1202000CD-5, RKPO-EU2401000CD-5, RKP-EU0503000CD-5, RKP-EU1202000CD-5, RKP-EU2401000CD-5, RKPO-EU0602000DP-2, RKPO-EU1101090DP-2, RKPO-EU1900630DP-2, RKPO-EU2400500DP-2, RKPO-EU0602000DP-2A, RKPO-EU1101090DP-2A, RKPO-EU1900630DP-2A, RKPO-EU2400500DP-2A, RKPO-EU0602000CD-2, RKPO-EU1101090CD-2, RKPO-EU1900630CD-2, RKPO-EU2400500CD-2, RKP-EU0602000DP-2, RKP-EU1101090DP-2, RKP-EU1900630DP-2, RKP-EU2400500DP-2, RKPO-UK0401500CD-1, RKPO-UK0900666CD-1, RKPO-UK1900315CD-1, RKPO-UK2400250CD-1, RKP-UK0401500DP-1, RKP-UK0900666DP-1, RKP-UK1900315DP-1, RKP-UK2400250DP-1 and frequency of working voltage. 5. The EUTs passed the test.	Unless otherwise indicated, all tests were performed at the location stated in “Testing procedure and testing location”.

Summary of compliance with National Differences:

List of countries addressed:

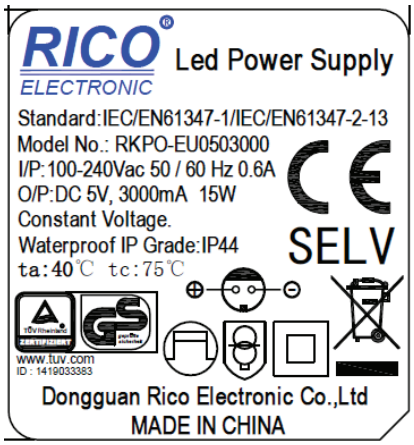
Austria, Belgium, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

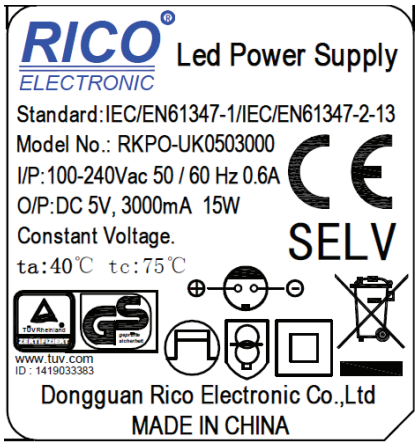
☒ **The product fulfils the requirements of EN 61347-2-13:2014 + A1 used in conjunction with EN 61347-1: 2015.**

Copy of marking plate

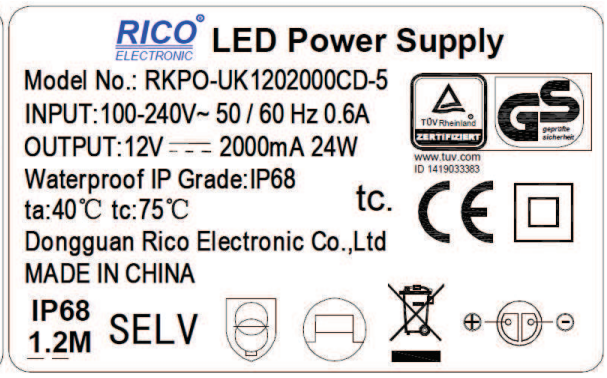
The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

For model: RKPO-zzxxxyyyy (Tc point is at the top enclosure near transformer T1).

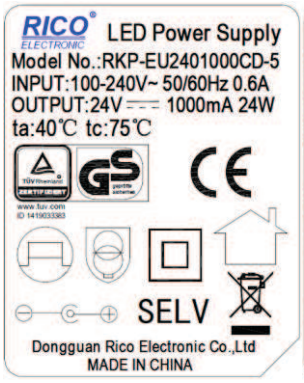


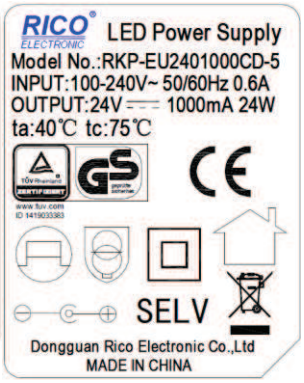


For model: RKPO-zzxxxyyyyCD-5 (Tc point is at the top enclosure near transformer T1).

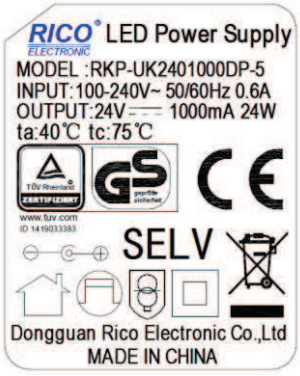


For model: RKP-zzxxxyyyyCD-5 (Tc point is at the top enclosure near transformer T1).

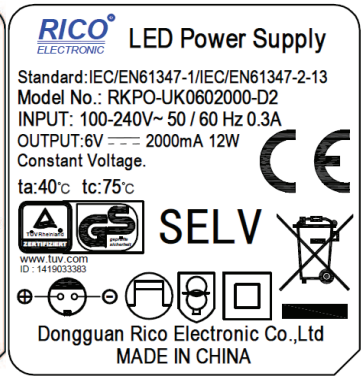




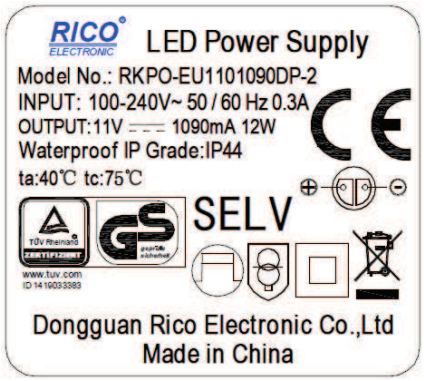
For model: RKP-UKxxxyyyyDP-5 (Tc point is at the top enclosure near transformer T1).

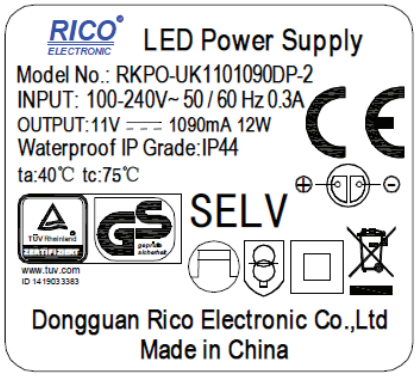


For model: RKPO-zzxxxyyyy-D2 (Tc point is at the top enclosure near transformer T1).

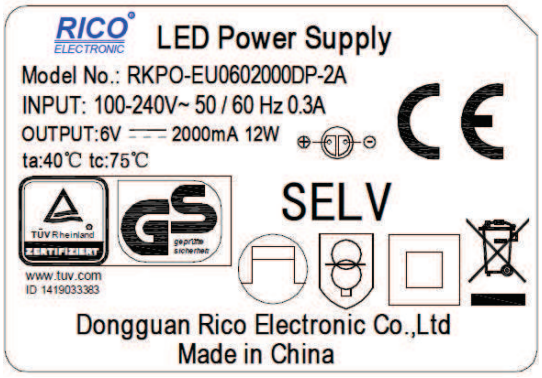


For model: RKPO-zzxxxyyyyDP-2 (Tc point is at the top enclosure near transformer T1).

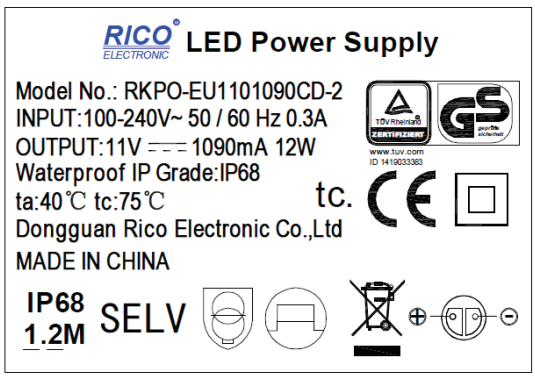


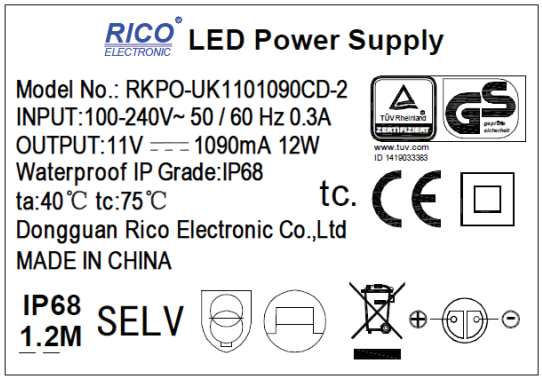


For model: RKPO-EUxxxyyyyDP-2A (Tc point is at the top enclosure near transformer T1).

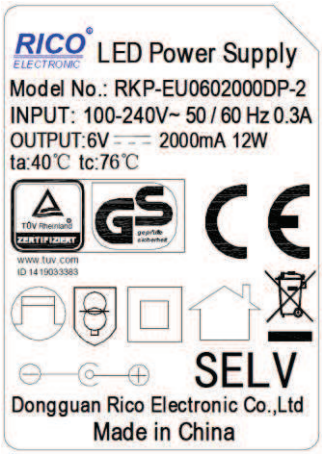


For model: RKPO-zzxxxyyyyCD-2 (Tc point is at the top enclosure near transformer T1).

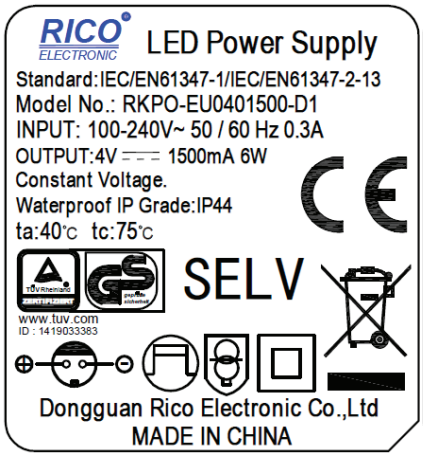


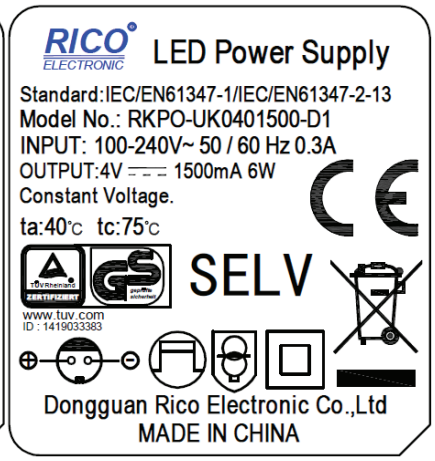


For model: RKP-zzxxxyyyyDP-2 (Tc point is at the top enclosure near transformer T1).

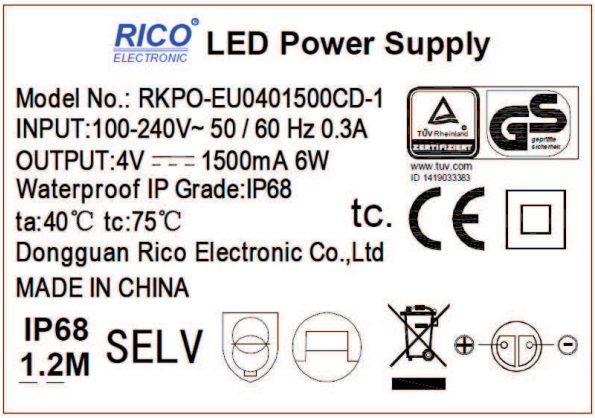


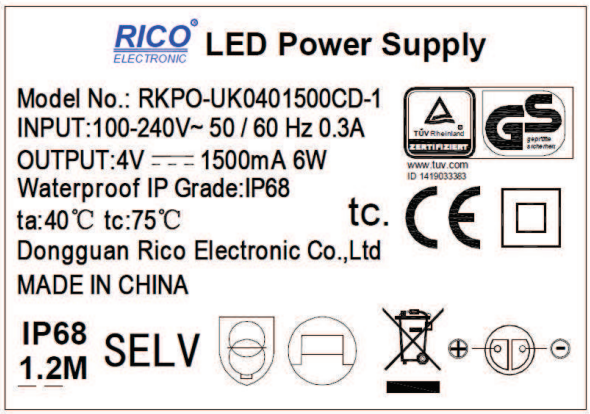
For model: RKPO-zzxxxyyyy-D1 (Tc point is at the top enclosure near transformer T1)



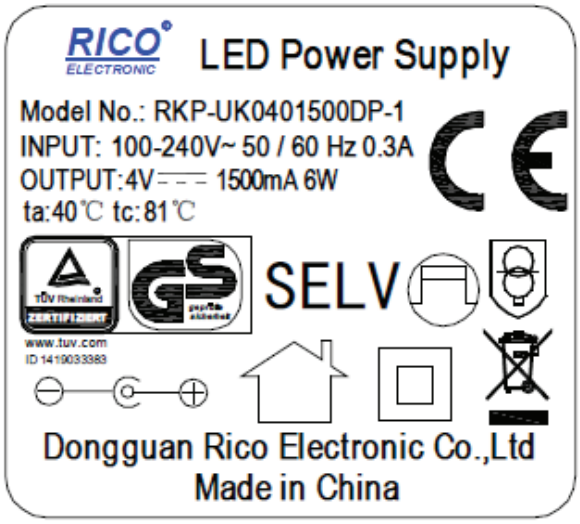


For model: RKPO-zzxxxyyyyCD-1 (Tc point is at the top enclosure near transformer T1).





For model: RKP-zzxxxyyyyDP-1 (Tc point is at the top enclosure near transformer T1).



Supplementary information

1. Above label for representing the other models.
2. IP44 for models RKPO-EUxxxyyyy, RKPO-EUxxxyyyy-D1 and RKPO-EUxxxyyyy-D2, RKPO-zzxxxyyyyDP-2 only.
3. IP68 for models RKPO-zzxxxyyyyCD-5, RKPO-zzxxxyyyyCD-2, RKPO-zzxxxyyyyCD-1

Test item particulars.....:	
Classification of installation and use .....:	Class II, Independent SELV type
Supply Connection.....:	Direct plug-in for models: RKPO-EUxxxyyyy, RKPO-UKxxxyyyy, RKP-UKxxxyyyyDP-5, RKPO-EUxxxyyyy-D2, RKPO-UKxxxyyyy-D2, RKPO-EUxxxyyyyDP-2, RKPO-UKxxxyyyyDP-2, RKPO-EUxxxyyyyDP-2A, RKP-EUxxxyyyyDP-2, RKP-UKxxxyyyyDP-2, RKPO-EUxxxyyyy-D1, RKPO-UKxxxyyyy-D1, RKP-EUxxxyyyyDP-1, RKP-UKxxxyyyyDP-1 Desk top type for models: RKPO-EUxxxyyyyCD-5, RKPO-UKxxxyyyyCD-5, RKP-EUxxxyyyyCD-5, RKP-UKxxxyyyyCD-5, RKPO-EUxxxyyyyCD-2, RKPO-UKxxxyyyyCD-2, RKPO-EUxxxyyyyCD-1, RKPO-UKxxxyyyyCD-1
.....:	
Possible test case verdicts:	
- test case does not apply to the test object.....:	N/A
- test object does meet the requirement .....:	P (Pass)
- test object does not meet the requirement.....:	F (Fail)
Testing.....:	(Year-Month-Date)
Date of receipt of test item .....:	2019-02-19
Date (s) of performance of tests.....:	2016-03-18 to 2016-04-11(test date of CB report 17057899 001); 2017-05-03 to 2017-05-19 (test date of CB report 17057899 003); 2018-01-18 to 2018-04-10 (test date of IEC report 50110576 001)

General remarks:	
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. **Throughout this report a ☐ comma / ☒ point is used as the decimal separator.** **Clause numbers between brackets refer to clauses in IEC 61347-1**	
Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided .....:	☐ **Yes** ☒ **Not applicable**
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies) ..... :	Dongguan Rico Electronic Co., Ltd. Shangling Industrial Park, Hengli Town, Dongguan City, 523460 Guangdong, China

General product information:

1. The EUT covered by this report are three series (24W series, 12W series and 6W series) of Independent LED drive with models RKPO-zzxxxyyyy, RKPO-zzxxxyyyyCD-5, RKP-zzxxxyyyyDP-5, RKP-zzxxxyyyyCD-5, RKPO-zzxxxyyyy-D2, RKPO-zzxxxyyyyDP-2, RKPO-EUxxxyyyyDP-2A, RKPO-zzxxxyyyyCD-2, RKP-zzxxxyyyyDP-2, RKPO-zzxxxyyyy-D1, RKPO-zzxxxyyyyCD-1 and RKP-zzxxxyyyyDP-1 for LED modules or LED lamps.
2. Models RKPO-zzxxxyyyy, RKPO-zzxxxyyyyCD-5, RKP-zzxxxyyyyDP-5, RKP-zzxxxyyyyCD-5 are 24W series models, they are identical to each other except for plug portion, size of enclosure, IP degree, electrical rating, supply connection and rating of some functional components; Models RKPO-zzxxxyyyy-D2, RKPO-zzxxxyyyyDP-2, RKPO-EUxxxyyyyDP-2A, RKPO-zzxxxyyyyCD-2, RKP-zzxxxyyyyDP-2 are 12W series models, they are identical to each other except for plug portion, size of enclosure, IP degree, electrical rating, supply connection and rating of some functional components; Models RKPO-zzxxxyyyy-D1, RKPO-zzxxxyyyyCD-1 and RKP-zzxxxyyyyDP-1 are 6W series models, they are identical to each other except for plug portion, size of enclosure, IP degree, electrical rating, supply connection and rating of some functional components, See tables A, B, C, D and E below for details.
3. The bottom enclosure and top enclosure are fixed by ultrasonic welding for all models except for models RKPO-zzxxxyyyyCD-1 and RKPO-zzxxxyyyyCD-2 are fixed by screws.
4. The bottom enclosure and top enclosure are fixed by screws for models RKP-zzxxxyyyyDP-1 and RKP-zzxxxyyyyDP-2.

Other comments:
This report is based on TUV Rheinland CB reports 17057899 001 to 17057899 003 and IEC test report 50110576 001 for issue a new CB report.

Table A: Series model difference

Series models		Electrical rating	Plug portion	IP degree	Supply connection
24W series	RKPO-EUxxxyyyy	Input: 100-240Vac, 50/60Hz, 0.6A; Output: DC 3V, 3.5V, 5V, 9V, 12V, 24V; 0.1A, 0.3A, 0.5A, 1.0A, 1.2A, 1.5A, 2.0A, 2.5A, 3.0A, 24W maximum	German plug	IP44	Direct plug-in with detachable output cord
	RKPO-UKxxxyyyy		UK plug	IP20	Direct plug-in with detachable output cord
	RKPO-EUxxxyyyyCD-5		Non-detachable German plug	IP68	Desk top with detachable output cord
	RKPO-UKxxxyyyyCD-5		Non-detachable UK plug	IP68	Desk top with detachable output cord
	RKP-UKxxxyyyyDP-5		UK plug	IP20	Direct plug-in with non-detachable output cord
	RKP-EUxxxyyyyCD-5		Non-detachable EU plug	IP20	Desk top with non-detachable output cord
	RKP-UKxxxyyyyCD-5		Non-detachable UK plug	IP20	Desk top with non-detachable output cord
12W series	RKPO-EUxxxyyyy-D2	Input: 100-240Vac, 50/60Hz, 0.3A; Output: DC 3-24V, 0.1-1.5A, 12W maximum	German plug	IP44	Direct plug-in with detachable output cord
	RKPO-UKxxxyyyy-D2		UK plug	IP20	Direct plug-in with detachable output cord
	RKPO-EUxxxyyyyDP-2		German plug	IP44	Direct plug-in with detachable output cord
	RKPO-UKxxxyyyyDP-2		UK plug	IP20	Direct plug-in with detachable output cord
	RKPO-EUxxxyyyyDP-2A		German plug	IP44	Direct plug-in with detachable output cord
	RKPO-EUxxxyyyyCD-2		Non-detachable German plug	IP68	Desk top with detachable output cord
	RKPO-UKxxxyyyyCD-2		Non-detachable UK plug	IP68	Desk top with detachable output cord
	RKP-EUxxxyyyyDP-2		EU plug	IP20	Direct plug-in with non-detachable output cord
	RKP-UKxxxyyyyDP-2		UK plug	IP20	Direct plug-in with non-detachable output cord
6W	RKPO-EUxxxyyyy-D1	Input: 100-	German plug	IP44	Direct plug-in with

series		240Vac, 50/60Hz, 0.3A; Output: DC 3-24V, 0.1-2.0A, 6W maximum			detachable output cord
	RKPO-UKxxxyyyy-D1		UK plug	IP20	Direct plug-in with detachable output cord
	RKPO-EUxxxyyyyCD-1		Non-detachable German plug	IP68	Desk top with detachable output cord
	RKPO-UKxxxyyyyCD-1		Non-detachable UK plug	IP68	Desk top with detachable output cord
	RKP-EUxxxyyyyDP-1		EU plug	IP20	Direct plug-in with non-detachable output cord
	RKP-UKxxxyyyyDP-1		UK plug	IP20	Direct plug-in with non-detachable output cord
Note: RKPO-zzxxxyyyy, RKPO-zzxxxyyyy-D2 and RKPO-zzxxxyyyy-D1 have the same plug portion and same size plastic enclosure. RKPO-zzxxxyyyyCD-1 and RKPO-zzxxxyyyyCD-2 have the same non-detachable power cord set and same size plastic enclosure.					

Table B: Definition of variables

For 24W series models:

RKPO-zzxxxyyyy, RKPO-zzxxxyyyyCD-5, RKP-UKxxxyyyyDP-5 and RKP-zzxxxyyyyCD-5

Variable:	Range of variable:	Content:
xxx	030, 035, 050, 090, 120, 240	Three digits, indicate 10 time of output voltage in Volt. E.g.: 030=3.0Vdc, 240=24.0Vdc.
yyyy	0100, 0300, 0500, 1000, 1200, 1500, 2000, 2500, 3000	Four digits, indicate 1000 times of output current in mA. E.g.: 0100=0.1A, 1500=1.5A.
zz	EU, UK	Represents the plug type for different countries. (EU=Europe or German, UK=United Kingdom)

For 12W series models:

RKPO-zzxxxyyyy-D2, RKPO-zzxxxyyyyDP-2, RKPO-EUxxxyyyyDP-2A, RKPO-zzxxxyyyyCD-2 and RKP-zzxxxyyyyDP-2

Variable:	**Range of variable:**	**Content:**
xxx	030-240	3 digits represent 10 times of output voltage in Volt. rising in steps of 0.1V. E.g.: 030=3.0VDC, 240=24.0VDC.
yyyy	0100-2000	4 digits represent 1000 times of output current in Ampere, rising in steps of 0.001A. E.g.: 0100=0.1A, 2000=2.0A.
zz	EU, UK	Represents the plug type for different countries. (EU=Europe or German, UK=United Kingdom)

For 6W series models:
RKPO-zzxxxyyyy-D1, RKPO-zzxxxyyyyCD-1 and RKP-zzxxxyyyyDP-1

Variable:	**Range of variable:**	**Content:**
xxx	030-240	3 digits represent 10 times of output voltage in Volt. rising in steps of 0.1V. E.g.: 030=3.0VDC, 240=24.0VDC.
yyyy	0100-1500	4 digits represent 1000 times of output current in Ampere, rising in steps of 0.001A. E.g.: 0100=0.1A, 1500=1.5A.
zz	EU, UK	Represents the plug type for different countries. (EU=Europe or German, UK=United Kingdom)

Rating:
Independent controlgear, non-inherently short circuit proof, constant voltage output, Class II, ta=40°C, tc=75°C for all models except for models RKP-zzxxxyyyyDP-2 and RKP-zzxxxyyyyDP-1, tc=76°C for models RKP-zzxxxyyyyDP-2, tc=81°C for models RKP-zzxxxyyyyDP-1 (at the top of enclosure near transformer).

Table C: Model list

For 24W series models:

Model	Output Voltage (V)	Output Current (A)	Output power (W)	Transformer (T1)
RKPO-zzxxxyyyy, RKPO-zzxxxyyyyCD-5, RKP-UKxxxyyyyDP-5 and RKP-zzxxxyyyyCD-5	3	0.5	1.5	RK24-05V0 (aux. winding N4 Ø0.2mm*16Ts, sec. winding N3: Ø0.55mm*6Ts)
	3	1	3	
	3	1.5	4.5	
	3	2	6	
	3.5	0.5	1.75	
	3.5	1	3.5	
	3.5	1.2	4.2	
	3.5	1.5	5.25	
	5	0.5	2.5	
	5	1	5	
	5	1.5	7.5	
	5	2	10	
	5	2.5	12.5	
	5	3	15	
	9	0.5	4.5	RK24-12V0 (aux. winding N4 Ø0.2mm*16Ts, sec. winding N3: Ø0.6mm*12Ts)
	9	1	9	
	9	1.5	13.5	
	9	2	18	
	12	0.3	3.6	
	12	0.5	6	
	12	1	12	
	12	1.5	18	
	12	2	24	
	24	0.1	2.4	RK24-24V0 (aux. winding N4 Ø0.2mm*16Ts, sec. winding N3: Ø0.5mm*24Ts)
	24	0.3	7.2	
	24	0.5	12	
	24	1	24	
All models have the same circuit diagram, PCB layout, construction, only turns of secondary of transformer may be different and ratings for some components are different.				

For 12W series models:

Model	Input	Output		Output power (W)
		Output voltage (VDC)	Output current (A)	
RKPO-zzxxxyyyy-D2, RKPO-zzxxxyyyyDP-2, RKPO-EUxxxyyyyDP-2A, RKPO-zzxxxyyyyCD-2 and RKP-zzxxxyyyyDP-2	100-240Vac, 50/60Hz, 0.3A	3.0-24.0	0.1-2.0	Max. 12.0
Notes: 1) Output voltage rising in steps of 0.1V. 2) Output current rising in steps of 0.001A. The output voltage multiplied by output current cannot exceed the max. output power listed above.				

For 6W series models:

Model	Input	Output		Output power (W)
		Output voltage (VDC)	Output current (A)	
RKPO-zzxxxyyyy-D1, RKPO-zzxxxyyyyCD-1 and RKP-zzxxxyyyyDP-1	100-240Vac, 50/60Hz, 0.3A	3.0-24.0	0.1-1.5	Max. 6.0
Notes: 1)Output voltage rising in steps of 0.1V. 2)Output current rising in steps of 0.001A. The output voltage multiplied by output current cannot exceed the max. output power listed above.				

Table D: Model different list of functional components

For 24W series models:

RKPO-zzxxxyyyy, RKPO-zzxxxyyyyCD-5, RKP-UKxxxyyyyDP-5 and RKP-zzxxxyyyyCD-5

Model No.	R7, R8	R15	R16	D6	D7	C11	C12	T1
RKPO-zz0300500 RKPO-zz0300500CD-5 RKP-UK0300500DP-5 RKP-zz0300500CD-5	3Ω-6.8Ω	2.67K	9.53K	3A/40V	3A/40V	1000uF /10V	1000uF /10V	RK24-05V0
RKPO-zz0301000 RKPO-zz0301000CD-5 RKP-UK0301000DP-5 RKP-zz0301000CD-5								
RKPO-zz0301500 RKPO-zz0301500CD-5 RKP-UK0301500DP-5 RKP-zz0301500CD-5	1Ω-3Ω							
RKPO-zz0302000 RKPO-zz0302000CD-5 RKP-UK0302000DP-5 RKP-zz0302000CD-5								
RKPO-zz0350500 RKPO-zz0350500CD-5 RKP-UK0350500DP-5 RKP-zz0350500CD-5	3Ω-6.8Ω	4.53K	9.53K	3A/40V	3A/40V	1000uF /10V	1000uF /10V	
RKPO-zz0351000 RKPO-zz0351000CD-5 RKP-UK0351000DP-5 RKP-zz0351000CD-5								
RKPO-zz0351200 RKPO-zz0351200CD-5 RKP-UK0351200DP-5 RKP-zz0351200CD-5								
RKPO-zz0351500 RKPO-zz0351500CD-5 RKP-UK0351500DP-5 RKP-zz0351500CD-5								
RKPO-zz0500500 RKPO-zz0500500CD-5 RKP-UK0500500DP-5 RKP-zz0500500CD-5	3Ω-6.8Ω	1.05K	1K	5A/40V	5A/40V	1000uF /10V	1000uF /10V	
RKPO-zz0501000 RKPO-zz0501000CD-5 RKP-UK0501000DP-5 RKP-zz0501000CD-5								
RKPO-zz0501500 RKPO-zz0501500CD-5								

RKP-UK0501500DP-5 RKP-zz0501500CD-5								
RKPO-zz0502000 RKPO-zz0502000CD-5 RKP-UK0502000DP-5 RKP-zz0502000CD-5	1Ω-3Ω							
RKPO-zz0502500 RKPO-zz0502500CD-5 RKP-UK0502500DP-5 RKP-zz0502500CD-5								
RKPO-zz0503000 RKPO-zz0503000CD-5 RKP-UK0503000DP-5 RKP-zz0503000CD-5								
RKPO-zz0900500 RKPO-zz0900500CD-5 RKP-UK0900500DP-5 RKP-zz0900500CD-5	3Ω-6.8Ω	7.5K	2.74K	5A/ 100V	5A/ 100V	1000uF /16V	470uF/ 16V	RK24- 12V0
RKPO-zz0901000 RKPO-zz0901000CD-5 RKP-UK0901000DP-5 RKP-zz0901000CD-5								
RKPO-zz0901500 RKPO-zz0901500CD-5 RKP-UK0901500DP-5 RKP-zz0901500CD-5	1Ω-3Ω							
RKPO-zz0902000 RKPO-zz0902000CD-5 RKP-UK0902000DP-5 RKP-zz0902000CD-5								
RKPO-zz1200300 RKPO-zz1200300CD-5 RKP-UK1200300DP-5 RKP-zz1200300CD-5	3Ω-6.8Ω	10.7K	2.74K	5A/ 100V	5A/ 100V	1000uF /16V	470uF/ 16V	
RKPO-zz1200500 RKPO-zz1200500CD-5 RKP-UK1200500DP-5 RKP-zz1200500CD-5								
RKPO-zz1201000 RKPO-zz1201000CD-5 RKP-UK1201000DP-5 RKP-zz1201000CD-5								
RKPO-zz1201500 RKPO-zz1201500CD-5 RKP-UK1201500DP-5 RKP-zz1201500CD-5	1Ω-3Ω							

RKPO-zz1202000 RKPO-zz1202000CD-5 RKP-UK1202000DP-5 RKP-zz1202000CD-5								
RKPO-zz2400100 RKPO-zz2400100CD-5 RKP-UK2400100DP-5 RKP-zz2400100CD-5	3Ω-6.8Ω	24K	2.74K	3A/ 200V	3A/ 200V	470uF/ 50V	220uF/ 50V	RK24- 24V0
RKPO-zz2400300 RKPO-zz2400300CD-5 RKP-UK2400300DP-5 RKP-zz2400300CD-5								
RKPO-zz2400500 RKPO-zz2400500CD-5 RKP-UK2400500DP-5 RKP-zz2400500CD-5	1Ω-3Ω							
RKPO-zz2401000 RKPO-zz2401000CD-5 RKP-UK2401000DP-5 RKP-zz2401000CD-5								

For 12W series models:

RKPO-zzxxxyyyy-D2, RKPO-zzxxxyyyyDP-2, RKPO-EUxxxyyyyDP-2A, RKPO-zzxxxyyyyCD-2 and RKP-zzxxxyyyyDP-2

Model	Transformer	R6	R9	D8	C11
RKPO-zzxxxyyyy-D2, RKPO-zzxxxyyyyDP-2, RKPO-EUxxxyyyyDP-2A, RKPO-zzxxxyyyyCD-2 and RKP-zzxxxyyyyDP-2 (xxx=030-089, yyyy=0200-2000)	RK12-05VI	0.5-5.1Ω	10K-51KΩ	2A40V Min	10V220UF Min
RKPO-zzxxxyyyy-D2, RKPO-zzxxxyyyyDP-2, RKPO-EUxxxyyyyDP-2A, RKPO-zzxxxyyyyCD-2 and RKP-zzxxxyyyyDP-2 (xxx=090-189, yyyy=0100-1090)	RK12-12VI	0.5-5.1Ω	10K-51KΩ	2A60V Min	16V220UF Min
RKPO-zzxxxyyyy-D2, RKPO-zzxxxyyyyDP-2, RKPO-EUxxxyyyyDP-2A, RKPO-zzxxxyyyyCD-2 and RKP-zzxxxyyyyDP-2 (xxx=190-240, yyyy=0100-0630)	RK12-24VI	0.5-5.1Ω	10K-51KΩ	2A200V Min	25V100UF Min
All models have the same circuit diagram, PCB layout, construction, only turns of secondary of transformer may be different and ratings for some components are different.					

For 6W series models:
RKPO-zzxxxyyyy-D1, RKPO-zzxxxyyyyCD-1 and RKP-zzxxxyyyyDP-1

Model	Transformer	R6	R9	D8	C11
RKPO-zzxxxyyyy-D1, RKPO-zzxxxyyyyCD-1 and RKP-zzxxxyyyyDP-1 (xxx=030-089, yyyy=0200-1500)	RK06-05	0.5-5.1Ω	10K-51KΩ	2A40V Min	10V220UF Min
RKPO-zzxxxyyyy-D1, RKPO-zzxxxyyyyCD-1 and RKP-zzxxxyyyyDP-1 (xxx=090-189, yyyy=0100-0666)	RK06-12	0.5-5.1Ω	10K-51KΩ	2A60V Min	16V220UF Min
RKPO-zzxxxyyyy-D1, RKPO-zzxxxyyyyCD-1 and RKP-zzxxxyyyyDP-1 (xxx=190-240, yyyy=0100-0315)	RK06-24	0.5-5.1Ω	10K-51KΩ	2A200V Min	25V100UF Min
All models have the same circuit diagram, PCB layout, construction, only turns of secondary of transformer may be different and ratings for some components are different.					

Table E: size of enclosure

Series models		Size of enclosure (L*W*H) (unit: mm) V(olume)= L*W*H (unit: mm^3)
24W series	RKPO-EUxxxyyyy	79.7*48.3*32 (V=123184.32)
	RKPO-UKxxxyyyy	79.7*47*38.5 (V=144217.15)
	RKPO-EUxxxyyyyCD-5	98*45*33 (V=145530.00)
	RKPO-UKxxxyyyyCD-5	98*45*33 (V=145530.00)
	RKP-UKxxxyyyyDP-5	83.5*47*39 (V=153055.5)
	RKP-EUxxxyyyyCD-5	88*50*31 (V=136400.00)
	RKP-UKxxxyyyyCD-5	88*50*31 (V=136400.00)
12W series	RKPO-EUxxxyyyy-D2	79.7*48.3*32 (V=123184.32)
	RKPO-UKxxxyyyy-D2	79.7*47*38.5 (V=144217.15)
	RKPO-EUxxxyyyyDP-2	75.5*36*28 (V=76104.00)
	RKPO-UKxxxyyyyDP-2	75.5*54*28 (V=114156.00)
	RKPO-EUxxxyyyyDP-2A	81.31*43.0*35.4 (V=123770.08)
	RKPO-EUxxxyyyyCD-2	82*48.5*33 (V=131241.00)
	RKPO-UKxxxyyyyCD-2	82*48.5*33 (V=131241.00)
	RKP-EUxxxyyyyDP-2	74*42*29 (V=90132.0)
	RKP-UKxxxyyyyDP-2	74.9*49.01*46.67 (V=171318.52)
6W series	RKPO-EUxxxyyyy-D1	79.7*48.3*32 (V=123184.32)
	RKPO-UKxxxyyyy-D1	79.7*47*38.5 (V=144217.15)
	RKPO-EUxxxyyyyCD-1	82*48.5*33 (V=131241.00)
	RKPO-UKxxxyyyyCD-1	82*48.5*33 (V=131241.00)
	RKP-EUxxxyyyyDP-1	47.5*35*28 (V=46550.00)
	RKP-UKxxxyyyyDP-1	75.5*36*28 (V=76104.00)
Note: RKPO-EUxxxyyyy, RKPO-EUxxxyyyy-D2 and RKPO-EUxxxyyyy-D1 have the same size enclosure, RKPO-UKxxxyyyy, RKPO-UKxxxyyyy-D2 and RKPO-UKxxxyyyy-D1 have the same size enclosure, RKPO-EUxxxyyyyCD-1 and RKPO-EUxxxyyyyCD-2 have the same size enclosure, RKPO-UKxxxyyyyCD-1 and RKPO-UKxxxyyyyCD-2 have the same size enclosure.		

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Clause	Requirement + Test	Result - Remark	Verdict

4 (4)	GENERAL REQUIREMENTS		P
- (4)	Insulation materials according requirements in Annex N of IEC 61347-1	(see Annex N)	P
- (4)	Compliance of independent controlgear enclosure with IEC 60 598-1		P
- (4)	Built-in electronic controlgear with double or reinforced insulation comply with Annex O of IEC 61347-1		N/A
4 (4)	SELV controlgear comply with Annex I of this part 2 and Annex L of IEC 61347-1	(see Annex L)	P
4 (-)	Transformer comply with IEC 61558		P
	Dielectric strength test of insulated winding wires is limited to 3 kV if input voltage ≤ 300 V		P

6 (6)	CLASSIFICATION		P
	Built-in controlgear .....:	Yes ☐ No ☒	—
	Independent controlgear.....:	Yes ☒ No ☐	—
	Integral controlgear .....:	Yes ☐ No ☒	—
6 (-)	Auto-wound controlgear .....:	Yes ☐ No ☒	—
	Separating controlgear .....:	Yes ☐ No ☒	—
	Isolating controlgear .....:	Yes ☒ No ☐	—
	SELV controlgear .....:	Yes ☒ No ☐	—

7 (7)	MARKING		P
7.1 (7.1)	**Mandatory markings**		**P**
	a) mark of origin	See the copy of marking plate	P
	b) model number or type reference	See page 2	P
	c) symbol for independent controlgear, if applicable	See the copy of marking plate	P
	d) correlation between interchangeable parts and controlgear marked		N/A
	e) rated supply voltage (V)	100-240Vac	P
	supply frequency (Hz)	50/60Hz	P
	supply current (A)	See page 2	P
	f) earthing symbol	Class II equipment.	N/A
	k) wiring diagram	See the copy of marking plate	P
	l) value of t_c	See the copy of marking plate	P

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Clause	Requirement + Test	Result - Remark	Verdict
	m) symbol for declared temperature		N/A
	t) LUM earthing symbol		N/A
	u) if not SELV maximum working voltage U_{out} between:		N/A
	- output terminals (V) .....:		N/A
	- output terminals and earth (V) .....:		N/A
7.1 (-)	Constant voltage type:	Yes ☒ No ☐	—
	- rated output power P_{rated} (W) .....:	See copy of marking plate	P
	- rated output voltage U_{rated} (V) .....:	See copy of marking plate	P
	Constant current type:	Yes ☐ No ☒	—
	- rated output power P_{rated} (W) .....:		N/A
	- rated output current I_{rated} (A) .....:		N/A
	Indication if for LED modules only		N/A
7.1 (7.2)	Marking durable and legible		P
	Rubbing 15 s water, 15 s petroleum; marking legible		P
7.2 (7.1)	**Information to be provided, if applicable**		**P**
	h) declaration on protection against accidental contact	Mentioned in user manual	P
	i) cross-section of conductors (mm²)		N/A
	j) number, type and wattage of lamp(s)		N/A
	s) SELV symbol	SELV	P
7.2 (-)	- declaration of mains connected windings		P

8 (10)	**PROTECTION AGAINST ACCIDENTAL CONTACT WITH LIVE PARTS**		**P**
- (10.1)	Controlgear protected against accidental contact with live parts	Protected by accessible plastic enclosure	P
- (A2)	Voltage measured with 50 kΩ	(see Annex A)	P
- (A3)	Voltage > 35 V peak or > 60 V d.c. or protective impendance device	(see Annex A)	P
- (10.1)	Lacquer or enamel not used for protection or insulation		P
	Adequate mechanical strength on parts providing protection		N/A
- (10.2)	Capacitors > 0,5 µF: voltage after 1 min (V): < 50 V .....:	No such capacitors	N/A
- (10.3)	**Controlgear providing SELV**		**P**

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Clause	Requirement + Test	Result - Remark	Verdict
	Accessible conductive parts are insulated from live parts by double or reinforced insulation in SELV controlgear	Double or reinforced insulation provided.	P
	No connection between output circuit and the body or protective earthing circuit		P
	No possibility of connection between output circuit and the body or protective earthing circuit through other conductive parts		P
	SELV outputs separated by at least basic insulation		P
	ELV conductive parts insulated as live parts		P
	Tests according Annex L of IEC 61347-1	(see annex L)	P
- (10.4)	**Accessible conductive parts in SELV circuits**		**P**
	Output voltage under load ≤ 25 V r.m.s. or ≤ 60 V d.c.	(See Annex A)	P
	If output voltage > 25 V r.m.s. or > 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c and touch current does not exceed 0,7 mA (peak) or 2 mA d.c. .....:		P
	One conductive part is insulated if output voltage or current exceeding the values above and withstand test voltage 500 V		N/A
	Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor	For 24W series models: Two Y1 capacitors CY1, CY2 used between primary circuit and SELV. For 12W and 6W series models: One Y1 capacitor (CY1) used between primary circuit and SELV	P
	Y1 or Y2 capacitors comply with IEC 60384-14	VDE approved Y1 capacitor provided.	P
	Resistors comply with test (a) in 14.1 of IEC 60065		N/A

9 (8)	**TERMINALS**		**N/A**
	Screw terminals according section 14 of IEC 60598-1:		N/A
	Separately approved; component list		N/A
	Part of the controlgear		N/A
	Screwless terminals according section 15 of IEC 60598-1:		N/A
	Separately approved; component list		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Part of the controlgear		N/A

10 (9)	**PROVISION FOR PROTECTIVE EARTHING** *Class II equipment*		**N/A**
- (9.1)	**Provisions for protective earthing**		**N/A**
	Terminal complying with clause 8		N/A
	Locked against loosening and not possible to loosen by hand		N/A
	Not possible to loosen clamping means unintentionally on screwless terminals		N/A
	Earthing via means of fixing		N/A
	Earthing terminal only used for the earthing of the control gear		N/A
	All parts of material minimizing the danger of electrolytic corrosion		N/A
	Made of brass or equivalent material		N/A
	Contact surface bare metal		N/A
- (9.2)	**Provision for functional earthing**		N/A
	Comply with clause 8 and 9.1		N/A
	Functional earth insulated from live parts by double or reinforced insulation		N/A
- (9.3)	**Earth contact via the track on the printed board**		N/A
	Test with a current of 25 A between earthing terminal and each of the accessible metal parts; measured resistance (Ω) at ≥ 10 A according 7.2.3 of IEC 60598-1: < 0,5 Ω .....:		N/A
- (9.4)	**Earthing of built-in lamp controlgear**		N/A
	Earth by means of fixing to earthed metal of luminaire in compliance of 7.2 of IEC 60598-1		N/A
	Earthing terminal only for earthing the built-in controlgear		N/A
- (9.5)	**Earthing via independent controlgear**		N/A
- (9.5.1)	Earth connection to other equipment		N/A
	Looping or through connection, conductor min. 1,5 mm² and of copper or equivalent		N/A
	Protective earthing wires in line with 5.3.1.1 and clause 7		N/A
- (9.5.2)	Earthing of the lamp compartments powered via the independent lamp controlgear		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Test with a current of 25 A between input and output earth terminals; measured resistance (Ω) between earthing terminal and each of the accessible metal parts at ≥ 10 A according 7.2.3 of IEC 60598-1: < 0,5 Ω .....:		N/A
	Output earthing terminal marked as in 7.1 t) of IEC 61347-1		N/A
11 (11)	**MOISTURE RESISTANCE AND INSULATION**		**P**
	After storage 48 h at 91-95% relative humidity and 20-30 °C measuring of insulation resistance with d.c. 500 V (MΩ):		P
	For basic insulation ≥ 2 MΩ .....:	Between L to N before fuse: 100 MΩ	P
	For double or reinforced insulation ≥ 4 MΩ .....:	Between L/N to outside: 100 MΩ Between L/N to output: 100 MΩ	P
	Between primary and secondary circuits in controlgear providing SELV, values in Annex L in IEC 61347-1	See annex L	P
12 (12)	**ELECTRIC STRENGTH**		**P**
	Immediately after clause 11 electric strength test for 1 min		P
	Basic insulation for SELV, test voltage 500 V		P
	Working voltage ≤ 50 V, test voltage 500 V	See only above.	N/A
	Working voltage > 50 V ≤ 1000 V, test voltage (V):		P
	Basic insulation, 2U + 1000 V	Between L to N before fuse: 1500 V	P
	Supplementary insulation, 2U + 1000 V		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Double or reinforced insulation, 4U + 2000 V	For 24W series model: Between L/N to secondary output: 3332 V Between L/N to plastic enclosure: 3332 V For 12W series model: Between L/N to secondary output: 3072 V Between L/N to plastic enclosure: 3072 V For 6W series model: Between L/N to secondary output: 2944 V Between L/N to plastic enclosure: 2944 V	P
	No flashover or breakdown		P
	Solid or thin sheet insulation for double or reinforced insulation fulfil the requirements in Annex N in IEC 61347-1	(see annex N)	P

14 (14)	**FAULT CONDITIONS**		**P**
- (14.1)	When operated under fault conditions the controlgear:		P
	- does not emit flames or molten material		P
	- does not produce flammable gases		P
	- protection against accidental contact not impaired		P
	Thermally protected controlgear does not exceed the marked temperature value		N/A
	Fault conditions: capacitors, resistors or inductors without proof of compliance with relevant specifications have been short-circuited or disconnected	(see appended table 14)	P
- (14.2)	Short-circuit of creepage distances and clearances if less than specified in clause 16 in Part 1 (except between live parts and accessible metal parts)	(see appended table 14)	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
- (14.3)	Short-circuit or interruption of semiconductor devices	(see appended table 14)	P
- (14.4)	Short-circuit across insulation consisting of lacquer, enamel or textile	(see appended table 14)	N/A
- (14.5)	Short-circuit across electrolytic capacitors	(see appended table 14)	P
- (14.6)	After the tests has been carried out on three samples:		P
	The insulation resistance ≥ 1 MΩ .....:	500MΩ> 1 MΩ	P
	No flammable gases		P
	No accessible parts have become live		P
	During the tests, a five-layer tissue paper, where the test specimen is wrapped, does not ignite		P
- (14.7)	Relevant fault condition tests with high-power supply		—
14 (-)	Temperature declared thermally protected lamp controlgear fulfil requirements in Annex C		N/A
15 (-)	**TRANSFORMER HEATING**		**P**
15.1	**General**		**P**
	Transformer comply with clause L.6 and L.7 of IEC 61347-1		P
	Output voltage of SELV controlgear not exceed limits in 10.4 of IEC 61347-1 during the test of 15.1 and 15.2		P
15.2 (-)	**Normal operation**		**P**
	Comply with clause L.6 of IEC 61347-1	(See annex 4)	P
15.3 (-)	**Abnormal operation**		**P**
	Comply with clause L.7 of IEC 61347-1	(See annex 4)	P
	Double LED modules or equivalent load connected in parallel to the output terminals of constant voltage type		P
	Double LED modules or equivalent load connected in parallel to the output terminals of constant current type		N/A
15 (-)	During and at the end of the tests no defect impairing safety, nor any smoke or flammable gases produced		P

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Clause	Requirement + Test	Result - Remark	Verdict

16 (15)	**CONSTRUCTION**		**P**
- (15.1)	**Wood, cotton, silk, paper and similar fibrous material**		**P**
	Wood, cotton, silk, paper and similar fibrous material not used as insulation		P
- (15.2)	**Printed circuits**		**P**
	Printed circuits used as internal connections complies with clause 14		P
- (15.3)	**Plugs and socket-outlets used in SELV or ELV circuits**		**P**
	No dangerous compatibility between output socket-outlet and a plug for socket-outlets for input circuit in relation to installation rules, voltages and frequencies		P
	Plugs and socket-outlets for SELV comply with IEC 60906-3 and IEC 60884-2-4		N/A
	Plugs and socket-outlets for SELV ≤ 3 A, ≤ 25 V r.m.s. or ≤ 60 V d.c. and ≤ 72 W comply with IEC 60906-3 and IEC 60884-2-4 or:		P
	- plugs not able to enter socket-outlets of other standardised system		P
	- socket-outlets not admit plugs of other standardised system		P
	- socket-outlets without protective earth		P
- (15.4)	**Insulation between circuits and accessible parts**		**P**
- (15.4.2)	SELV circuits		P
	Source used to supply SELV circuits:		P
	- safety isolating transformer in accordance with relevant part 2 of IEC 61558		N/A
	- controlgear providing SELV in accordance with relevant part 2 of IEC 61347		P
	- another source		N/A
	Voltage in the circuit not higher than ELV		P
	SELV circuits insulated from LV by double or reinforced insulation		P
	SELV circuits insulated from non SELV circuits by double or reinforced insulation		N/A
	SELV circuits insulated from FELV circuits by supplementary insulation		N/A
	SELV circuits insulated from other SELV circuits by basic insulation		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	SELV circuits insulated from accessible conductive parts according Table 6 in 15.4.5		P
- (15.4.3)	FELV circuits		N/A
	Source used to supply FELV circuits:		N/A
	- separating transformer in accordance with relevant part 2 of IEC 61558		N/A
	- separating controlgear providing basic insulation between input and output circuits in accordance with relevant part 2 of IEC 61347		N/A
	- another source		N/A
	- source in circuits separated by the LV supply by basic insulation		N/A
	Voltage in the circuit not higher than ELV		N/A
	FELV circuits insulated from LV supply by at least basic insulation		N/A
	FELV circuits insulated from other FELV circuits if functional purpose		N/A
	FELV circuits insulated from accessible conductive parts according Table 6 in 15.4.5		N/A
	Plugs and socket-outlets for FELV system comply with:		N/A
	- plugs not able to enter socket-outlets of other voltage systems		N/A
	- socket-outlets not admit plugs of other voltage systems		N/A
	- socket-outlets have a protective conductor contact		N/A
- (15.4.4)	Other circuits		P
	Insulation between circuits other than SELV or FELV and accessible conductive parts in according Table 6 in 15.4.5.		P
- (15.4.5)	Insulation between circuits and accessible conductive parts		P
	Accessible conductive parts insulated from active parts of electric circuits by insulating according Table 6		P
	Requirements for Class II construction with equipotential bonding for protection against indirect contact with live parts:		N/A
	- all conductive parts are connected together		N/A
	- conductive parts are reliably connected together according test of IEC 60598-1 cl. 7.2.3		N/A
	- conductive parts comply with requirements of Annex A in case of insulation fault		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

17 (16)	**CREEPAGE DISTANCES AND CLEARANCES**		**P**
- (16)	Creepage distances and clearances according to Table 3 and 4, as appropriate	(see appended table 17(16))	P
	Controlgears providing SELV comply with L.1 in Annex L		P
	Insulating lining of metallic enclosures		N/A
	Creepage distances not less than minimum clearance		N/A
- (16.2)	**Creepage distances**		**P**
- (16.2.2)	Minimum creepage distances for working voltages		P
	Creepage distances according to Table 7	(see appended table 17(16))	P
- (16.2.3)	Creepage distances for working voltages with frequencies above 30 kHz		P
	Creepage distances according to Table 8	(see appended table 17(16))	P
- (16.3)	**Clearances**		P
- (16.3.2)	Clearances for working voltages		P
	Clearances distances according to Table 9	(see appended table 17(16))	P
- (16.3.3)	Clearances for ignition voltages and working voltages with higher frequencies		N/A
	Clearances distances for basic or supplementary insulation according to Table 10		N/A
	Clearances distances for reinforced insulation according to Table 11		N/A

18 (17)	**SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS**		**P**
	Screws, current-carrying parts and connections in compliance with IEC 60598-1 (clause numbers between parentheses refer to IEC 60598-1)		P
(4.11)	**Electrical connections**		**P**
(4.11.1)	Contact pressure		P
(4.11.2)	**Screws:**		**N/A**
	- self-tapping screws		N/A
	- thread-cutting screws		N/A
(4.11.3)	**Screw locking:**		**N/A**
	- spring washer		N/A
	- rivets		N/A
(4.11.4)	Material of current-carrying parts		P
(4.11.5)	No contact to wood or mounting surface	No wood	P

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Clause	Requirement + Test	Result - Remark	Verdict
(4.11.6)	Electro-mechanical contact systems		N/A
(4.12)	**Mechanical connections and glands**		**P**
(4.12.1)	Screws not made of soft metal	The bottom enclosure and top enclosure are fixed by screws (diameter: 3.0mm).	P
	Screws of insulating material		N/A
	Torque test: torque (Nm); part..... :	Screw on bottom enclosure: 0.5Nm	P
	Torque test: torque (Nm); part..... :		N/A
	Torque test: torque (Nm); part..... :		N/A
(4.12.2)	Screws with diameter < 3 mm screwed into metal	No such screws used.	N/A
(4.12.4)	**Locked connections:**		**N/A**
	- fixed arms; torque (Nm)..... :		N/A
	- lampholder; torque (Nm)..... :		N/A
	- push-button switches; torque 0,8 Nm ..... :		N/A
(4.12.5)	Screwed glands; force (Nm)..... :		N/A

19 (18)	**RESISTANCE TO HEAT, FIRE AND TRACKING**		**P**
- (18.1)	Ball-pressure test ..... :	Bobbin of transformer T1: accepted for phenolic material, for other parts, see Table 19 (18.1).	P
- (18.2)	Test of printed boards ..... :	UL approved PCB classified V-0 minimum. Compliance checked in accordance with 8.7 of IEC 61189-2 and relevant parts of IEC 61249-2. (see appended table 19(18.2))	N/A
- (18.3)	Glow-wire test ..... :	See Test Table 19 (18.3)	P
- (18.4)	Needle flame test ..... :	See Test Table 19 (18.4)	P
- (18.5)	Tracking test ..... :	See Test Table 19 (18.5)	N/A

20 (19)	**RESISTANCE TO CORROSION**		**N/A**
	- test according 4.18.1 of IEC 60598-1		N/A
	- adequate varnish on the outer surface		N/A

21 (-)	**MAXIMUM WORKING VOLTAGE (U_{out}) IN ANY LOAD CONDITION**	**N/A**

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Clause	Requirement + Test	Result - Remark	Verdict
	Not exceed declared maximum working voltage U_{out} in any load condition	SELV output.	N/A

14	TABLE: tests of fault conditions	P
Part	Simulated fault	Hazard
For model: RKPO-EU0503000		
D1	Short circuit: 90V/264 V test result: Fuse opened immediately. Observed 1 S. No hazards. I/P: 0A O/P: 0A	NO
C1	Short circuit: 90V/264 V test result: Fuse opened immediately. Observed 1 S. No hazards. I/P: 0A O/P: 0A	NO
C2	Short circuit: 90V/264 V test result: Fuse opened immediately. Observed 1 S. No hazards. I/P: 0A O/P: 0A	NO
U1 Pin 8-1	Short circuit: 90V/264 V test result: Fuse opened immediately. Observed 1 S. No hazards. I/P: 0A O/P: 0A	NO
U1 Pin 3-4	Short circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.061A/2.5W O/P: 0A	NO
U1 Pin 6-4	Short circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.053A/2.6W O/P: 0A	NO
U2 pin 1-2	Short circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.028A/3.6W O/P: 0A/0W	NO
U2 pin 3-4	Short circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.028A/3.6W O/P: 0A/0W	NO
U2 pin 3	Open circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.028A/3.6W O/P: 0A/0W	NO
U2 pin 1	Open circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.028A/3.6W O/P: 0A/0W	NO
R8	Short circuit: 90V/264 V test result: Fuse opened immediately. Observed 1 S. No hazards. I/P: 0A O/P: 0A	NO

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Clause	Requirement + Test	Result - Remark	Verdict
T1 Pin1-2	Short circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.028A/3.6W O/P: 0A/0W		NO
T1 Pin 3-5	Short circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.026A/3.6W O/P: 0A/0W		NO
T1 Pin OA-OB	Short circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.031A/3.6W O/P: 0A/0W		NO
D7	Short circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.061A/2.5W O/P: 0A/0W		NO
Output	Short circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.051A/2.8W O/P: 0A/0W		NO
For model: RKPO-EU1202000			
D1	Short circuit: 90V/264 V test result: Fuse opened immediately. Observed 1 S. No hazards. I/P: 0A O/P: 0A		NO
C1	Short circuit: 90V/264 V test result: Fuse opened immediately. Observed 1 S. No hazards. I/P: 0A O/P: 0A		NO
C2	Short circuit: 90V/264 V test result: Fuse opened immediately. Observed 1 S. No hazards. I/P: 0A O/P: 0A		NO
U1 Pin 8-1	Short circuit: 90V/264 V test result: Fuse opened immediately. Observed 1 S. No hazards. I/P: 0A O/P: 0A		NO
U1 Pin 3-4	Short circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.044A/4.6W O/P: 0A		NO
U1 Pin 6-4	Short circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.034A/2.6W O/P: 0A		NO
U2 pin 1-2	Short circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.028A/3.6W O/P: 0A/0W		NO
U2 pin 3-4	Short circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.028A/3.6W O/P: 0A/0W		NO

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Clause	Requirement + Test	Result - Remark	Verdict
U2 pin 3	Open circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.028A/3.6W O/P: 0A/0W		NO
U2 pin 1	Open circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.028A/3.6W O/P: 0A/0W		NO
R8	Short circuit: 90V/264 V test result: Fuse opened immediately. Observed 1 S. No hazards. I/P: 0A O/P: 0A		NO
T1 Pin1-2	Short circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.028A/3.6W O/P: 0A/0W		NO
T1 Pin 3-5	Short circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.026A/3.6W O/P: 0A/0W		NO
T1 Pin OA-OB	Short circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.031A/3.6W O/P: 0A/0W		NO
D7	Short circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.041A/3.8W O/P: 0A/0W		NO
Output	Short circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.051A/2.8W O/P: 0A/0W		NO
For model: RKPO-EU2401000			
D1	Short circuit: 90V/264 V test result: Fuse opened immediately. Observed 1 S. No hazards. I/P: 0A O/P: 0A		NO
C1	Short circuit: 90V/264 V test result: Fuse opened immediately. Observed 1 S. No hazards. I/P: 0A O/P: 0A		NO
C2	Short circuit: 90V/264 V test result: Fuse opened immediately. Observed 1 S. No hazards. I/P: 0A O/P: 0A		NO
U1 Pin 8-1	Short circuit: 90V/264 V test result: Fuse opened immediately. Observed 1 S. No hazards. I/P: 0A O/P: 0A		NO
U1 Pin 3-4	Short circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.042A/4.1W O/P: 0A		NO

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Clause	Requirement + Test	Result - Remark	Verdict
U1 Pin 6-4	Short circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.029A/2.5W O/P: 0A		NO
U2 pin 1-2	Short circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.028A/3.6W O/P: 0A/0W		NO
U2 pin 3-4	Short circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.028A/3.6W O/P: 0A/0W		NO
U2 pin 3	Open circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.028A/3.6W O/P: 0A/0W		NO
U2 pin 1	Open circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.028A/3.6W O/P: 0A/0W		NO
R8	Short circuit: 90V/264 V test result: Fuse opened immediately. Q1 damage. Observed 1 S. No hazards. I/P: 0A O/P: 0A		NO
T1 Pin1-2	Short circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.028A/3.6W O/P: 0A/0W		NO
T1 Pin 3-5	Short circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.026A/3.6W O/P: 0A/0W		NO
T1 Pin OA-OB	Short circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.031A/3.6W O/P: 0A/0W		NO
D7	Short circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.031A/3.6W O/P: 0A/0W		NO
Output	Short circuit: 90V/264 V test result: Unit shut down immediately. Observed 10mins. No hazards. I/P: 0.051A/2.8W O/P: 0A/0W		NO
For model: RKPO-zz2400250-D1 (test at input 90V/264V)			
BD1	Fault: Short circuit. Test result: F1 opened immediately, no flame emission, no molten metal		NO
C2	Fault: Short circuit. Test result: Unit shut down immediately, unrecoverable, no flame emission, no molten metal		NO
IC1(1-8)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO

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Clause	Requirement + Test	Result - Remark	Verdict
IC1(5-8)	Fault: Short circuit. Test result: Unit shut down immediately, unrecoverable, no flame emission, no molten metal		NO
R6	Fault: Short circuit. Test result: Unit shut down immediately, unrecoverable, no flame emission, no molten metal		NO
R10	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
T1(1-3)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
T1(2-4)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
T1(A-B)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
C12	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
Output	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
For model: RKPO-zz1900315-D1 (test at input 90V/264V)			
BD1	Fault: Short circuit. Test result: F1 opened immediately, no flame emission, no molten metal		NO
C2	Fault: Short circuit. Test result: Unit shut down immediately, unrecoverable, no flame emission, no molten metal		NO
IC1(1-8)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
IC1(5-8)	Fault: Short circuit. Test result: Unit shut down immediately, unrecoverable, no flame emission, no molten metal		NO
R6	Fault: Short circuit. Test result: Unit shut down immediately, unrecoverable, no flame emission, no molten metal		NO
R10	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
T1(1-3)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO

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Clause	Requirement + Test	Result - Remark	Verdict
T1(2-4)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
T1(OA-OB)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
C12	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
Output	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
For model: RKPO-zz0900666-D1 (test at input 90V/264V)			
BD1	Fault: Short circuit. Test result: F1 opened immediately, no flame emission, no molten metal		NO
C2	Fault: Short circuit. Test result: Unit shut down immediately, unrecoverable, no flame emission, no molten metal		NO
IC1(1-8)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
IC1(5-8)	Fault: Short circuit. Test result: Unit shut down immediately, unrecoverable, no flame emission, no molten metal		NO
R6	Fault: Short circuit. Test result: Unit shut down immediately, unrecoverable, no flame emission, no molten metal		NO
R10	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
T1(1-3)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
T1(2-4)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
T1(OA-OB)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
C12	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
Output	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO

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Clause	Requirement + Test	Result - Remark	Verdict
For model: RKPO-zz0401500-D1 (test at input 90V/264V)			
BD1	Fault: Short circuit. Test result: F1 opened immediately, no flame emission, no molten metal		NO
C2	Fault: Short circuit. Test result: Unit shut down immediately, unrecoverable, no flame emission, no molten metal		NO
IC1(1-8)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
IC1(5-8)	Fault: Short circuit. Test result: Unit shut down immediately, unrecoverable, no flame emission, no molten metal		NO
R6	Fault: Short circuit. Test result: Unit shut down immediately, unrecoverable, no flame emission, no molten metal		NO
R10	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
T1(1-3)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
T1(2-4)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
T1(OA-OB)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
C12	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
Output	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
For model: RKPO-zz2400500-D2 (test at input 90V/264V)			
BD1	Fault: Short circuit. Test result: F1 opened immediately, no flame emission, no molten metal		NO
C2	Fault: Short circuit. Test result: Unit shut down immediately, unrecoverable, no flame emission, no molten metal		NO
IC1(1-8)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO

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Clause	Requirement + Test	Result - Remark	Verdict
IC1(5-8)	Fault: Short circuit. Test result: Unit shut down immediately, unrecoverable, no flame emission, no molten metal		NO
R6	Fault: Short circuit. Test result: Unit shut down immediately, unrecoverable, no flame emission, no molten metal		NO
R10	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
T1(1-3)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
T1(2-4)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
T1(OA-OB)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
C12	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
Output	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
For model: RKPO-zz1900630-D2 (test at input 90V/264V)			
BD1	Fault: Short circuit. Test result: F1 opened immediately, no flame emission, no molten metal		NO
C2	Fault: Short circuit. Test result: Unit shut down immediately, unrecoverable, no flame emission, no molten metal		NO
IC1(1-8)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
IC1(5-8)	Fault: Short circuit. Test result: Unit shut down immediately, unrecoverable, no flame emission, no molten metal		NO
R6	Fault: Short circuit. Test result: Unit shut down immediately, unrecoverable, no flame emission, no molten metal		NO
R10	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
T1(1-3)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO

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Clause	Requirement + Test	Result - Remark	Verdict
T1(2-4)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
T1(OA-OB)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
C12	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
Output	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
For model: RKPO-zz1101090-D2 (test at input 90V/264V)			
BD1	Fault: Short circuit. Test result: F1 opened immediately, no flame emission, no molten metal		NO
C2	Fault: Short circuit. Test result: Unit shut down immediately, unrecoverable, no flame emission, no molten metal		NO
IC1(1-8)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
IC1(5-8)	Fault: Short circuit. Test result: Unit shut down immediately, unrecoverable, no flame emission, no molten metal		NO
R6	Fault: Short circuit. Test result: Unit shut down immediately, unrecoverable, no flame emission, no molten metal		NO
R10	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
T1(1-3)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
T1(2-4)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
T1(OA-OB)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
C12	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO
Output	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal		NO

IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

For model: RKPO-zz0602000-D2 (test at input 90V/264V)		
BD1	Fault: Short circuit. Test result: F1 opened immediately, no flame emission, no molten metal	NO
C2	Fault: Short circuit. Test result: Unit shut down immediately, unrecoverable, no flame emission, no molten metal	NO
IC1(1-8)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal	NO
IC1(5-8)	Fault: Short circuit. Test result: Unit shut down immediately, unrecoverable, no flame emission, no molten metal	NO
R6	Fault: Short circuit. Test result: Unit shut down immediately, unrecoverable, no flame emission, no molten metal	NO
R10	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal	NO
T1(1-3)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal	NO
T1(2-4)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal	NO
T1(OA-OB)	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal	NO
C12	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal	NO
Output	Fault: Short circuit. Test result: Unit shut down immediately, recoverable, no flame emission, no molten metal	NO
Remark: 1) Each fault where F1 opened was repeated three times (for 24W series model) or ten times (for both 12W series and 6W series model) with each current fuse (for 24W series model) or fusible resistor (for both 12W series and 6W series model) source and with same result.		

IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

17 (16)	TABLE: clearance and creepage distance measurements (mm)						P
Applicable part of IEC 61347-1 Table 7 – 11*							
Distances	Insulation type **	Measured clearance	Required		Measured creepage	Required	
			clearance	*Table		creepage	*Table
Clearance and creepage distance measurements other than isolation transformer							
For 24W series model							
Distance 1:	B/S#	*1)	1.5	9	*1)	2.5	7
L-N on PCB before F1	B	3.7	1.5	9	3.7	2.5	7
Different polarity of fuse F1	B	4.9	1.5	9	4.9	2.5	7
Distance 2:	R	*1)	3.0	9	*1)	5.0	7
Primary component C2 to accessible enclosure	R	5.2	3.0	9	5.2	5.0	7
Primary trace to secondary trace under CY1	R	6.5	3.0	9	6.5	5.0	7
Primary trace to secondary trace of CY2	R	7.0	3.0	9	7.0	5.0	7
Primary trace to secondary trace of U2	R	7.0	5.5	9	7.0	6.7	7
Trace of primary component R4 to secondary component R14	R	7.0	3.0	9	7.0	5.0	7
Working voltage (V)..... :					250 Vr.m.s except for 333 Vr.m.s for U2		—
Frequency if applicable (kHz)..... :					60 Hz		—

IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

PTI..... :	< 600 ☒ ≥ 600 ☐	—
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV) ..... :	354 Vpeak except for 374 Vpeak for U2	—
Pulse voltage if applicable (kV) ..... :	No pulse voltage.	—
Supplementary information: *1) see appended table 17 (16) in measurement section.		

Clearance and creepage distance measurements for isolation transformer							
Distance 3:	B/S#	*1)	3.0	9	*1)	3.47 (3.3+0.17)	7, 8
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Distance 4:	R#	*1)	5.5	9	*1)	6.94 (6.6+0.34)	7, 8
Primary trace to secondary trace under T1	R#	**8.4**	5.5	9	**8.4**	**6.94 (6.6+0.34)**	7, 8
Core to secondary pin of T1	R#	**8.4**	5.5	9	**8.4**	**6.94 (6.6+0.34)**	7, 8
Core to secondary pin of CY1	R#	11.0	5.5	9	11.0	6.94 (6.6+0.34)	7, 8
Core to secondary pin of U2	R#	10.0	5.5	9	10.0	6.94 (6.6+0.34)	7, 8
Core to secondary component U3	R#	12.0	5.5	9	12.0	6.94 (6.6+0.34)	7, 8
Core to secondary pin of CY2	R#	12.0	5.5	9	12.0	6.94 (6.6+0.34)	7, 8
Distance 5:	B/S#	*1)	4.1	Table 13 of IEC 61558-1	*1)	4.3	Table 13 of IEC 61558-1
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Distance 6:	R#	*1)	6.6	Table 13 of IEC 61558-1	*1)	8.3	Table 13 of IEC 61558-1

IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

Primary trace to secondary trace under T1	R#	**8.4**	6.6	Table 13 of IEC 61558-1	**8.4**	**8.3**	Table 13 of IEC 61558-1
Core to secondary pin of T1	R#	**8.4**	6.6	Table 13 of IEC 61558-1	**8.4**	**8.3**	Table 13 of IEC 61558-1
Core to secondary pin of CY1	R#	11.0	6.6	Table 13 of IEC 61558-1	11.0	8.3	Table 13 of IEC 61558-1
Core to secondary pin of U2	R#	10.0	6.6	Table 13 of IEC 61558-1	10.0	8.3	Table 13 of IEC 61558-1
Core to secondary component U3	R#	12.0	6.6	Table 13 of IEC 61558-1	12.0	8.3	Table 13 of IEC 61558-1
Core to secondary pin of CY2	R#	12.0	6.6	Table 13 of IEC 61558-1	12.0	8.3	Table 13 of IEC 61558-1

Working voltage (V) :	**327 Vrms**	—
Frequency if applicable (kHz) :	**60 kHz**	—
PTI :	< 600 ☒ ≥ 600 ☐	—
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV) :	**416 Vpeak**	—
Pulse voltage if applicable (kV) :	No pulse voltage.	—

Supplementary information: *1) see appended table 17 (16) in measurement section.
B=basic insulation, R=Reinforced insulation.

1) 3 layers insulation tape wrapped around transformer and bottom of core.
2) Triple insulated wire used for secondary winding of the transformer.
3) Core of transformer considered as primary part.
4) Insulation tube and tape are used at primary windings and secondary windings crossing each other.

17 (16)	**TABLE: clearance and creepage distance measurements (mm)**						**P**
Applicable part of IEC 61347-1 Table 7 – 11*							
Distances	**Insulation type ****	**Measured clearance**	**Required**		**Measured creepage**	**Required**	
			clearance	***Table**		**creepage**	***Table**
Clearance and creepage distance measurements other than isolation transformer							
For 12W series model							
Distance 1:	B/S#	*1)	1.5	9	*1)	2.5	7

IEC 61347-2-13							
Clause	Requirement + Test				Result - Remark		Verdict
L-N on PCB before F1	B#	6.1	1.5	9	6.1	2.5	7
Different polarity of fuse F1	B#	5.5	1.5	9	5.5	2.5	7
Distance 2:	R#	*1)	3.0	9	*1)	5.0	7
Primary component C1/C2 to accessible enclosure	R#	9.1	3.0	9	9.1	5.0	7
Different pin of CY1	R#	6.5	3.0	9	6.5	5.0	7
Primary component C1 to plug pin	R#	5.7	3.0	9	5.7	5.0	7
Working voltage (V)..... :					250 Vr.m.s		—
Frequency if applicable (kHz)..... :					60 Hz		—
PTI..... :					< 600 ☒ ≥ 600 ☐		—
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV) ..... :					354 Vpeak		—
Pulse voltage if applicable (kV) ..... :					No pulse voltage.		—
Supplementary information: *1) see appended table 17 (16) in measurement section.							
Clearance and creepage distance measurements for isolation transformer							
Distance 3:	B/S#	*1)	3.0	9	*1)	2.96 (2.7+0.26)	7, 8
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Distance 4:	R#	*1)	5.5	9	*1)	5.92 (5.4+0.52)	7, 8
Primary trace of D1 to secondary pin of T1	R#	7.0	5.5	9	7.0	5.92 (5.4+0.52)	7, 8
Core of T1 to secondary component C11	R#	**8.0**	5.5	9	**8.0**	**5.92 (5.4+0.52)**	7, 8

IEC 61347-2-13							
Clause	Requirement + Test				Result - Remark		Verdict
Core to secondary pin of T1	R#	12.6	5.5	9	12.6	5.92 (5.4+0.52)	7, 8
Primary winding to secondary pin of T1	R#	7.8	5.5	9	7.8	5.92 (5.4+0.52)	7, 8
Distance 5:	B/S#	*1)	2.7	Table 13 of IEC 61558-1	*1)	2.8	Table 13 of IEC 61558-1
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Distance 6:	R#	*1)	5.2	Table 13 of IEC 61558-1	*1)	5.4	Table 13 of IEC 61558-1
Primary trace of D1 to secondary pin of T1	R#	7.0	5.2	Table 13 of IEC 61558-1	7.0	5.4	Table 13 of IEC 61558-1
Core of T1 to secondary component C11	R#	5.5	5.2	Table 13 of IEC 61558-1	5.5	5.4	Table 13 of IEC 61558-1
Core to secondary pin of T1	R#	12.6	5.2	Table 13 of IEC 61558-1	12.6	5.4	Table 13 of IEC 61558-1
Primary winding to secondary pin of T1	R#	7.8	5.2	Table 13 of IEC 61558-1	7.8	5.4	Table 13 of IEC 61558-1
Working voltage (V) ..... :					**268 Vrms**		—
Frequency if applicable (kHz) ..... :					**60 kHz**		—
PTI ..... :					< 600 ☒ ≥ 600 ☐		—
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV) ..... :					**536 Vpeak**		—
Pulse voltage if applicable (kV) ..... :					No pulse voltage.		—

Supplementary information: *1) see appended table 17 (16) in measurement section.
B=basic insulation, R=Reinforced insulation.

1) Min. 3 layers insulation tape wrapped around transformer.
2) Triple insulated wire used for secondary winding of the transformer.
3) Core of transformer considered as primary part.
4) Insulation tube and tape are used at primary windings and secondary windings crossing each other.
5) Enclosure minimum thickness 2.5mm＞0.86mm (working voltage 240V).

IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

17 (16)	TABLE: clearance and creepage distance measurements (mm)						P
Applicable part of IEC 61347-1 Table 7 – 11*							
Distances	**Insulation type ****	**Measured clearance**	**Required**		**Measured creepage**	**Required**	
			clearance	***Table**		**creepage**	***Table**
Clearance and creepage distance measurements other than isolation transformer							
For 6W series models RKPO-zzxxxyyyy-D1, RKPO-zzxxxyyyyCD-1							
Distance 1:	B/S#	*1)	1.5	9	*1)	2.5	7
L-N on PCB before F1	B#	3.5	1.5	9	3.5	2.5	7
Different polarity of fuse F1	B#	2.9	1.5	9	2.9	2.5	7
Distance 2:	R#	*1)	3.0	9	*1)	5.0	7
Different pin of CY1	R#	5.3	3.0	9	5.3	5.0	7
Primary component C2 to accessible enclosure	R#	11.7	3.0	9	11.7	5.0	7
Winding of L1 to outside of plastic enclosure	R#	14.9	3.0	9	14.9	5.0	7
Working voltage (V) ..... :					250 Vr.m.s		—
Frequency if applicable (kHz) ..... :					60 Hz		—
PTI ..... :					< 600 ☒ ≥ 600 ☐		—
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV) ..... :					354 Vpeak		—
Pulse voltage if applicable (kV) ..... :					No pulse voltage.		—
Supplementary information: *1) see appended table 17 (16) in measurement section.							
Clearance and creepage distance measurements for isolation transformer							
Distance 3:	B/S#	*1)	1.5	9	*1)	2.77 (2.5+0.27)	7, 8
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Distance 4:	R#	*1)	3.0	9	*1)	5.54 (5.0+0.54)	7, 8

IEC 61347-2-13							
Clause	Requirement + Test				Result - Remark		Verdict
Core of T1 to outside of plastic enclosure	R#	12.5	3.0	9	12.5	5.54 (5.0+0.54)	7, 8
Primary trace of D6 to secondary pin of T1	R#	5.8	3.0	9	5.8	5.54 (5.0+0.54)	7, 8
Core of T1 to secondary component L1	R#	**6.2**	3.0	9	**6.2**	**5.54 (5.0+0.54)**	7, 8
Core of T1 to secondary component C11	R#	6.7	3.0	9	6.7	5.54 (5.0+0.54)	7, 8
Core of T1 to secondary pin of CY1	R#	7.5	3.0	9	7.5	5.54 (5.0+0.54)	7, 8
Core of T1 to secondary pin of CY1	R#	7.5	3.0	9	7.5	5.54 (5.0+0.54)	7, 8
Core of T1 to secondary pin A of T1	R#	**6.2**	3.0	9	**6.2**	**5.54 (5.0+0.54)**	7, 8
Core of T1 to secondary pin B of T1	R#	6.1	3.0	9	6.1	5.54 (5.0+0.54)	7, 8
Primary winding of T1 to secondary pin A of T1	R#	7.8	3.0	9	7.8	5.54 (5.0+0.54)	7, 8
Primary winding of T1 to secondary pin B of T1	R#	10.1	3.0	9	10.1	5.54 (5.0+0.54)	7, 8

IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

Distance 5:	B/S#	*1)	2.5	Table 13 of IEC 61558-1	*1)	2.6	Table 13 of IEC 61558-1
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Distance 6:	R#	*1)	4.7	Table 13 of IEC 61558-1	*1)	5.0	Table 13 of IEC 61558-1
Core of T1 to outside of plastic enclosure	R#	12.5	4.7	Table 13 of IEC 61558-1	12.5	5.0	Table 13 of IEC 61558-1
Primary trace of D6 to secondary pin of T1	R#	5.8	4.7	Table 13 of IEC 61558-1	5.8	5.0	Table 13 of IEC 61558-1
Core of T1 to secondary component L1	R#	**6.2**	4.7	Table 13 of IEC 61558-1	**6.2**	**5.0**	Table 13 of IEC 61558-1
Core of T1 to secondary component C11	R#	6.7	4.7	Table 13 of IEC 61558-1	6.7	5.0	Table 13 of IEC 61558-1
Core of T1 to secondary pin of CY1	R#	7.5	4.7	Table 13 of IEC 61558-1	7.5	5.0	Table 13 of IEC 61558-1
Core of T1 to secondary pin of CY1	R#	7.5	4.7	Table 13 of IEC 61558-1	7.5	5.0	Table 13 of IEC 61558-1
Core of T1 to secondary pin A of T1	R#	5.5	4.7	Table 13 of IEC 61558-1	5.5	5.0	Table 13 of IEC 61558-1
Core of T1 to secondary pin B of T1	R#	6.1	4.7	Table 13 of IEC 61558-1	6.1	5.0	Table 13 of IEC 61558-1

IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

Primary winding of T1 to secondary pin A of T1	R#	7.8	4.7	Table 13 of IEC 61558-1	7.8	5.0	Table 13 of IEC 61558-1
Primary winding of T1 to secondary pin B of T1	R#	10.1	4.7	Table 13 of IEC 61558-1	10.1	5.0	Table 13 of IEC 61558-1

Working voltage (V)..... :	**250 Vrms**	—
Frequency if applicable (kHz)..... :	**60 kHz**	—
PTI..... :	< 600 ☒ ≥ 600 ☐	—
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV) ..... :	**548 Vpeak**	—
Pulse voltage if applicable (kV) ..... :	No pulse voltage.	—

Supplementary information: *1) see appended table 17 (16) in measurement section.
B=basic insulation, R=Reinforced insulation.

1) Min. 3 layers insulation tape wrapped around transformer.
2) Triple insulated wire used for secondary winding of the transformer.
3) Core of transformer considered as primary part.
4) Insulation tube and tape are used at primary windings and secondary windings crossing each other.
5) Enclosure minimum thickness 2.5mm＞0.86mm (working voltage 240V).

17 (16)	**TABLE: clearance and creepage distance measurements (mm)**						**P**
Applicable part of IEC 61347-1 Table 7 – 11*							
Distances	**Insulation type ****	**Measured clearance**	**Required**		**Measured creepage**	**Required**	
			clearance	***Table**		**creepage**	***Table**
Clearance and creepage distance measurements other than isolation transformer							
For 6W series model RKP-zzxxxyyyyDP-1							
Distance 1:	B/S#	*1)	1.5	9	*1)	2.5	7
L-N on PCB before F1	B#	3.5	1.5	9	3.5	2.5	7
Different polarity of fuse F1	B#	2.9	1.5	9	2.9	2.5	7
Distance 2:	R#	*1)	3.0	9	*1)	5.0	7
Different pin of CY1	R#	5.3	3.0	9	5.3	5.0	7

IEC 61347-2-13							
Clause	Requirement + Test				Result - Remark		Verdict
Primary component C2 to accessible enclosure	R#	6.2	3.0	9	6.2	5.0	7
Winding of L1 to outside of plastic enclosure	R#	8.0	3.0	9	8.0	5.0	7
Working voltage (V)..... :					250 Vr.m.s		—
Frequency if applicable (kHz)..... :					60 Hz		—
PTI..... :					< 600 ☒ ≥ 600 ☐		—
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV) ..... :					354 Vpeak		—
Pulse voltage if applicable (kV) ..... :					No pulse voltage.		—
Supplementary information: *1) see appended table 17 (16) in measurement section.							
Clearance and creepage distance measurements for isolation transformer							
Distance 3:	B/S#	*1)	1.5	9	*1)	2.77 (2.5+0.27)	7, 8
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Distance 4:	R#	*1)	3.0	9	*1)	5.54 (5.0+0.54)	7, 8
Core of T1 to outside of plastic enclosure	R#	12.5	3.0	9	12.5	5.54 (5.0+0.54)	7, 8
Primary trace of D6 to secondary pin of T1	R#	5.8	3.0	9	5.8	5.54 (5.0+0.54)	7, 8
Core of T1 to secondary component L1	R#	**6.0**	3.0	9	**6.0**	**5.54 (5.0+0.54)**	7, 8
Core of T1 to secondary component C11	R#	6.7	3.0	9	6.7	5.54 (5.0+0.54)	7, 8

IEC 61347-2-13							
Clause	Requirement + Test				Result - Remark		Verdict
Core of T1 to secondary pin of CY1	R#	7.5	3.0	9	7.5	5.54 (5.0+0.54)	7, 8
Core of T1 to secondary pin of CY1	R#	7.5	3.0	9	7.5	5.54 (5.0+0.54)	7, 8
Core of T1 to secondary pin A of T1	R#	**6.0**	3.0	9	**6.0**	**5.54 (5.0+0.54)**	7, 8
Core of T1 to secondary pin B of T1	R#	6.1	3.0	9	6.1	5.54 (5.0+0.54)	7, 8
Primary winding of T1 to secondary pin A of T1	R#	7.8	3.0	9	7.8	5.54 (5.0+0.54)	7, 8
Primary winding of T1 to secondary pin B of T1	R#	10.1	3.0	9	10.1	5.54 (5.0+0.54)	7, 8
Distance 5:	B/S#	*1)	2.5	Table 13 of IEC 61558-1	*1)	2.6	Table 13 of IEC 61558-1
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Distance 6:	R#	*1)	4.7	Table 13 of IEC 61558-1	*1)	5.0	Table 13 of IEC 61558-1
Core of T1 to outside of plastic enclosure	R#	12.5	4.7	Table 13 of IEC 61558-1	12.5	5.0	Table 13 of IEC 61558-1
Primary trace of D6 to secondary pin of T1	R#	5.8	4.7	Table 13 of IEC 61558-1	5.8	5.0	Table 13 of IEC 61558-1

IEC 61347-2-13							
Clause	Requirement + Test				Result - Remark		Verdict
Core of T1 to secondary component L1	R#	**6.0**	4.7	Table 13 of IEC 61558-1	**6.0**	**5.0**	Table 13 of IEC 61558-1
Core of T1 to secondary component C11	R#	6.7	4.7	Table 13 of IEC 61558-1	6.7	5.0	Table 13 of IEC 61558-1
Core of T1 to secondary pin of CY1	R#	7.5	4.7	Table 13 of IEC 61558-1	7.5	5.0	Table 13 of IEC 61558-1
Core of T1 to secondary pin of CY1	R#	7.5	4.7	Table 13 of IEC 61558-1	7.5	5.0	Table 13 of IEC 61558-1
Core of T1 to secondary pin A of T1	R#	5.5	4.7	Table 13 of IEC 61558-1	5.5	5.0	Table 13 of IEC 61558-1
Core of T1 to secondary pin B of T1	R#	6.1	4.7	Table 13 of IEC 61558-1	6.1	5.0	Table 13 of IEC 61558-1
Primary winding of T1 to secondary pin A of T1	R#	7.8	4.7	Table 13 of IEC 61558-1	7.8	5.0	Table 13 of IEC 61558-1
Primary winding of T1 to secondary pin B of T1	R#	10.1	4.7	Table 13 of IEC 61558-1	10.1	5.0	Table 13 of IEC 61558-1
Working voltage (V) ..... :					**250 Vrms**		—
Frequency if applicable (kHz) ..... :					**60 kHz**		—
PTI ..... :					< 600 ☒	≥ 600 ☐	—
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV) ..... :					**548 Vpeak**		—
Pulse voltage if applicable (kV) ..... :					No pulse voltage.		—

IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

Supplementary information: *1) see appended table 17 (16) in measurement section.
B=basic insulation, R=Reinforced insulation.
1) Min. 3 layers insulation tape wrapped around transformer.
2) Triple insulated wire used for secondary winding of the transformer.
3) Core of transformer considered as primary part.
4) Insulation tube and tape are used at primary windings and secondary windings crossing each other.
5) Enclosure minimum thickness 2.5mm＞0.86mm (working voltage 240V).

19 (18.1)	TABLE: Ball Pressure Test		P
Allowed impression diameter (mm) ……:		2.0	—
Object/ Part No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diameter (mm)
Plastic enclosure, pin sleeve and plug pin holder / model: 357M(f1)	SABIC INNOVATIVE PLASTICS B V	125	0.9
Plug pin holder / model: 943X(GG)(X)	SABIC INNOVATIVE PLASTICS B V	125	0.9
Supplementary information: Bobbin of transformer T1 and line choke L2 are accepted without test as both of them are made by phenolic material			

19 (18.2)	TABLE: Test of printed boards				N/A
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (s)	Ignition of specified layer Yes/No	Duration of burning (s)	Verdict
Supplementary information: UL approved PCB classified V-0 minimum. Compliance checked in accordance with 8.7 of IEC 61189-2 and relevant parts of IEC 61249-2.					

19 (18.3)	TABLE: Glow-wire test			P
Glow wire temperature……:		650°C		—
Object/ Part No./ Material	Manufacturer/ trademark	Ignition of specified layer Yes/No	Duration of burning (s)	Verdict
Plastic enclosure, pin sleeve and plug pin holder / model: 357M(f1)	SABIC INNOVATIVE PLASTICS B V	No	0	Pass
Plug pin holder / model: 943X(GG)(X)	SABIC INNOVATIVE PLASTICS B V	No	0	Pass
Supplementary information:				

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Clause	Requirement + Test	Result - Remark	Verdict

19 (18.4)	TABLE: Needle-flame test				P
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (s)	Ignition of specified layer Yes/No	Duration of burning (s)	Verdict
Plastic enclosure, pin sleeve and plug pin holder / model: 357M(f1)	SABIC INNOVATIVE PLASTICS B V	10	No	0	P
Plug pin holder / model: 943X(GG)(X)	SABIC INNOVATIVE PLASTICS B V	10	No	0	P
Supplementary information: Bobbin of transformer T1 and line choke L1 are accepted without test as both of them are made by phenolic material.					

19 (18.5)	TABLE: Proof tracking test				N/A
Test voltage PTI .....:		175 V			—
Object/ Part No./ Material	Manufacturer/ trademark	Withstand 50 drops without failure on three places or on three specimens			Verdict
Supplementary information:					

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Clause	Requirement + Test	Result - Remark	Verdict

A (A)	**ANNEX A - TEST TO ESTABLISH WHETHER A CONDUCTIVE PART IS A LIVE PART WHICH MAY CAUSE AN ELECTRIC SHOCK**		**P**
(A.1)	Comply with A.2 or A.3		P
(A.2)	Voltage ≤ 35 V peak or ≤ 60 V d.c .....:	Max. 24.21Vdc for 24W series model, Max. 24.25Vdc for models both 12W and 6W series models.	P
(A.3)	If voltage > 35 V peak or > 60 V d.c. or protective impendance device; touch current does not exceed 0,7 mA (peak) or 2 mA d.c. .....:	For 24W series model: Max. 0.13 mA <0.7 mA (peak) For 12W series model: Max. 0.26 mA＜0.7mA (peak) For 6W series model: 0.24 mA＜0.7mA (peak)	P
	Comply with Annex G of IEC 60598-1		P

C (C)	**ANNEX C – PARTICULAR REQUIREMENTS FOR ELECTRONIC LAMP CONTROLGEAR WITH MEANS OF PROTECTION AGAINST OVERHEATING**		**N/A**
(C3)	**GENERAL REQUIREMENTS**		**N/A**
(C3.1)	Thermal protection means integral with the convertor, protected against mechanical damage		N/A
	Renewable only by means of a tool		N/A
	If function depending on polarity, for cord-connected equipment protection means in both leads		N/A
	Thermal links comply with IEC 60691		N/A
	Electrical controls comply with IEC 60730-2-3		N/A
(C3.2)	No risk of fire by breaking (clause C7)		N/A
(C5)	**CLASSIFICATION**		**N/A**
	a) automatic resetting type		—
	b) manual resetting type		—
	c) non-renewable, non-resetting type		—
	d) renewable, non-resetting type		—
	e) other type of thermal protection; description ..:		N/A
(C6)	**MARKING**		N/A
(C6.1)	Symbol for temperature declared thermally protected ballasts		N/A
(C6.2)	Declaration of the type of protection provided		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

(C7)	**LIMITATION OF HEATING**		N/A
(C7.1)	**Preselection test:**		N/A
	Test sample placed for at least 12 h in an oven having temperature (t_c - 5) K		N/A
	No operation of the protection device		N/A
(C7.2)	**Functioning of protection means:**		N/A
	Normal operation of the sample in a test enclosure according to Annex D at an ambient temperature such that (t_c +0; -5) °C is obtained		N/A
	No operation of the protection device		N/A
	Introducing of the most onerous test condition determined during test of clause 14		N/A
	Output of windings connected to the mains supply short-circuited, and other part of the convertor operated under normal conditions		N/A
	Increasing of the current through the windings continuously until operation of the protection means		N/A
	Continuous measuring of the highest surface temperature		N/A
	Ballasts according to C5 a) or C5 e) operated until stable conditions are achieved		N/A
	Automatic-resetting thermal protectors working 3 times		N/A
	Ballasts according to C5 b) working 6 times		N/A
	Ballasts according to C5 c) and C5) d) working once		N/A
	Highest temperature does not exceed the marked value		N/A
	Any overshoot of 10% over the marked value within 15 min		N/A

D (D)	**ANNEX D – REQUIREMENTS FOR CARRY OUT THE HEATING TESTS OF THERMALLY PROTECTED LAMP CONTROLGEAR**		**N/A**
	Tests in C7 performed in accordance with Annex D, if applicable		N/A

F	**ANNEX F - DRAUGHT-PROOF ENCLOSURE**		**P**
	Draught-proof enclosure in accordance with the description		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Dimensions of the enclosure		P
	Other design; description		N/A
H (H)	**ANNEX H - TESTS**		P
	All tests performed in accordance with the advice given in Annex H, if applicable		P
I (L)	**ANNEX I: PARTICULAR ADDITIONAL REQUIREMENTS FOR SELV D.C. OR A.C. SUPPLIED ELECTRONIC CONTROLGEAR FOR LED MODULES**		**P**
(L.3)	**Classification**		**P**
	Class I	Yes ☐ No ☒	—
	Class II	Yes ☒ No ☐	—
	Class III	Yes ☐ No ☒	—
	non-inherently short circuit proof controlgear	Yes ☒ No ☐	—
	inherently short circuit proof controlgear	Yes ☐ No ☒	—
	fail safe controlgear	Yes ☐ No ☒	—
	non-short-circuit proof controlgear	Yes ☐ No ☒	—
(L.4)	**Marking**		**P**
	Adequate symbols are used	See copy of marking plate for details.	P
(L.5)	**Protection against electric shock**		**N/A**
	Comply with 9.2 of IEC 61558-1		N/A
(L.6)	**Heating**		**P**
	No excessive temperatures in normal use		P
	Value if capacitor t_c marked .....:	See annex 1	—
	Winding insulation classified as Class .....:	Class B	—
	Comply with tests of clause 14 of IEC 61558-1 with adjustments		P
(L.7)	**Short-circuit and overload protection**		**P**
	Comply with tests of clause 15 of IEC 61558-1 with adjustments	See annex 4.	P
(L.8)	**Insulation resistance and electric strength**		**P**
(L.8.1)	Conditioned 48 h between 91 % and 95 %		P
(L.8.2)	Insulation resistance		P
	Between input- and output circuits not less than 5 MΩ .....:	100 MΩ	P

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Clause	Requirement + Test	Result - Remark	Verdict
	Between metal parts of class II convertors which are separated from live parts by basic insulation only and the body not less than 5 MΩ .....:		N/A
	Between metal foil in contact with the inner and outer surfaces of enclosures of insulating material not less than 2 MΩ .....:	Min. 500 MΩ measured.	P
(L.8.3)	Electric strength		P
	1) Between live parts of input circuits and live parts of output circuits .....:	For 24W series model: Between L/N to secondary output: 3885 V For 12W series model: Between L/N to secondary output: 3750 V For 6W series model: Between L/N to secondary output: 3750 V	P
	2) Over basic or supplementary insulation between:		P
	a) live parts having different polarity .....:	Between L to N before fuse: 1500 V	P
	b) live parts and body if intended to be connected to protective earth .....:		N/A
	c) accessible metal parts and a metal rod of the same diameter as the flexible cable or cord .....:		N/A
	d) live parts and an intermediate metal part .....:		N/A
	e) intermediate metal parts and the body .....:		N/A
	f) each input circuit and all other input circuits ...:		N/A
	3) Over reinforced insulation between the body and live parts .....:	For 24W series model: Between L/N to plastic enclosure: 3885 V For 12W series model: Between L/N to plastic enclosure: 3750 V For 6W series model: Between L/N to plastic enclosure: 3750 V	P
(L.9)	**Construction**		**P**

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Clause	Requirement + Test	Result - Remark	Verdict
(L.9.1)	Transformer comply with 19.12 of IEC 61558-1 and 19 of IEC 61558-2-6	All windings fixed by bobbin and insulation tape VDE approved triple insulated wires used for secondary winding of transformer T1	P
	HF transformer comply with 19 of IEC 61558-2-16	Safety isolating transformer used. Double insulation or reinforced insulation between primary winding/core and secondary winding. Insulation tape fold back used on primary enamelled wire and secondary triple insulated wire where can contact each other.	P
(L.10)	**Components**		**P**
	Protective devices comply with 20.6 – 20.11 of IEC 61558-1	VDE approved current fuse used for 24W series model. VDE approved fusible resistor used for 12W and 6W series models.	P
(L.11)	**Creepage distances, clearances and distances through insulation**		**P**
	Creepage distances and clearances not less than in Clause 16		P
	Distance through insulation according Table L.5 in IEC 61347-1		P
	1) Basic distance through insulation		N/A
	Required distance (mm) .....:		—
	Measured (mm) .....:		N/A
	Supplementary information		—
	2) Supplementary distance through insulation		N/A
	Required distance (mm) .....:		—
	Measured (mm) .....:		N/A
	Supplementary information		—
	3) Reinforced distance through insulation		P
	Required distance (mm) .....:	0.83mm	—
	Measured (mm) .....:	Min. 1.5mm	P
	Supplementary information	Enclosure	—

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Clause	Requirement + Test	Result - Remark	Verdict

J (-)	**ANNEX J IN THIS PART 2 – PARTICULAR ADDITIONAL SAFETY REQUIREMENTS FOR A.C., A.C./D.C. OR D.C. SUPPLIED ELECTRONIC CONTROLGEAR FOR EMERGENCY LIGHTING**		N/A
J.1	**General**		N/A
	Intended for centralized emergency power supply	Yes ☐ No ☐	—
J.2	**Marking**		N/A
J.2.1	Mandatory markings		N/A
	a) symbol EL		N/A
	b) rated emergency supply voltage (V)		N/A
J.2.2	Information to be provided if applicable		N/A
	a) Limits of ambient temperature		N/A
	b) Emergency output factor (EOF_X)		N/A
	c) Information if intended for use in luminaires for high-risk task area lighting		N/A
J.3	General notes on tests		N/A
	Length of output cable in tests .....:		N/A
	Load instead of LED lamps/modules.....:		N/A
J.4	Starting conditions		N/A
	Start rated load in emergency mode without adversely affecting the performance		N/A
J.5	Operating condition		N/A
	Comply with the requirements of 7.2 of IEC 62384 at 90% and 110% of rated emergency supply voltage		N/A
J.6	Emergency supply current		N/A
	Emergency supply current not differ more than ±15 %		N/A
	Supply of low impedance and low inductance		N/A
J.7	EMC immunity		N/A
	Comply with the requirements of IEC 61547		N/A
J.8	Pulse voltage from central battery systems		N/A
	Withstand pulses according Table J.1		N/A
J.9	Tests for abnormal conditions		N/A
	Comply with the requirements of 12 of IEC 62384		N/A
J.10	Comply with the requirements of 13 of IEC 62384		N/A
J.11	Functional safety (EOF_x)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Declared emergency output factor (EOF_x) achieved during emergency operation		N/A
(N)	**ANNEX N: REQUIREMENTS FOR INSULATION MATERIALS USED FOR DOUBLE OR REINFORCED INSULATION**		**P**
(N.4)	**General requirements**		**P**
(N.4.1)	Material comply with IEC 60085 and IEC 60216 series		N/A
(N.4.2)	**Solid insulation**		**N/A**
	Electric strength test at least 5 kV or 1,35 x test voltage in Table N.1		N/A
	If not classified according IEC 60085 and IEC 60216 series: Electric strength test increased 10 % of 5,5 kV or 1,5 x test voltage in Table N.1		N/A
(N.4.3)	**Thin sheet insulation**		**P**
(N.4.3.1)	Thickness and composition of thin sheet insulation		P
	- Inside the ballast and not subjected to handling or abrasion during the production and during maintenance		P
	- Non-separated layers: Min. 3 layers and fulfil mandrel test of 150N		N/A
	- Separated layers: Min. 2 layers and each layer fulfil mandrel test of 50N	Two layers insulation tape wrapped around transformer T1, over transformer bottom core.	P
	- Separated layers (alternative): Min. 3 layers and 2/3 of the layers fulfil mandrel test of 100N		N/A
(N.4.3.2)	Mandrel test (electric strength test during mechanical stress)		P
	Electric strength test after mandrel test:		P
	- Non-separated layers: min. 5 kV or 1,35 x test voltage in Table N.1		N/A
	- 2/3 of min. 3 separated layers: min. 5 kV or 1,25 x test voltage in Table N.1		N/A
	- one of 2 separated layers: min. 5 kV or 1,25 x test voltage in Table N.1	One layer insulation tape with 50N pull force applied Test voltage: 5072.5V max.	P
	No flashover or breakdown occurred		P

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Clause	Requirement + Test	Result - Remark	Verdict

(O)	**ANNEX O: ADDITIONAL REQUIREMENTS FOR BUILT-IN ELECTRONIC CONTROLGEAR WITH DOUBLE OR REINFORCED INSULATION**		**N/A**
(O.6)	**Marking**		**N/A**
	Marking according clause 7 (7)	See clause 7	N/A
	Special symbol		N/A
	Meaning of the special symbol explained in catalogue		N/A
(O.7)	**Protection against accidental contact with live parts**		**N/A**
	Requirements of clause 8 (10)	See clause 8	N/A
	Test finger not possible to make contact with basic insulated metal parts		N/A
(O.8)	**Terminals**		**N/A**
	Clause 9 (8)	See clause 9	N/A
(O.9)	**Provision for earthing**		**N/A**
	Functional earthing terminals comply with clause 9 of part 1	Class II equipment	N/A
	No protective earthing terminal		N/A
(O.10)	**Moisture resistance and insulation**		**N/A**
	Clause 11 (11)	See clause 11	N/A
(O.11)	**Electric strength**		**N/A**
	Clause 12 (12)	See clause 12	N/A
(O.13)	**Fault conditions**		**N/A**
	Clause 14 (14)	See clause 14	N/A
	End of test, between live part and accessible metal parts or external parts of insulating material in contact with the supporting surface comply with dielectric strength test reduced to 35 % of values according Table 1 in part 1		N/A
	Insulation resistance according to O.10 between live part and accessible metal parts or external parts of insulating material in contact with the supporting surface not less than 4 MΩ		N/A
(O.14)	**Construction**		**N/A**
	Clause 17 (15)	See clause 17	N/A
	Accessible metal parts insulated from live parts by double or reinforced insulation		N/A
	Live part insulated from supporting surface in contact with external faces by double or reinforced insulation		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
(O.15)	**Creepage distances and clearances**		**N/A**
	Clause 18 (16)	See clause 18	N/A
	Comply with corresponding values for luminaries in IEC 60598-1		N/A
(O.16)	**Screws, current-carrying parts and connections**		**N/A**
	Clause 19 (17)	See clause 19	N/A
(O.17)	**Resistance to heat and fire**		**N/A**
	Clause 20 (18)	See clause 20	N/A
(O.18)	**Resistance to corrosion**		**N/A**
	Clause 21 (19)	See clause 21	N/A
(P)	**Creepage distances and clearances and distance through isolation (DTI) for lamp controlgear which are protected against pollution by the use of coating or potting**		**N/A**
(P.1)	**General**		N/A
	P.2 applies if creepage distances less than the minimum in Table 7 and 8		N/A
	P.3 applies if clearance less than the minimum in Table 9, 10 and 11		N/A
(P.2)	**Creepage distances**		N/A
(P.2.2)	Minimum creepage distances for working voltages and rated voltages with frequencies up to 30 kHz (Table P.1)		N/A
	Basic or supplementary insulation:		N/A
	Required creepage .....:		—
	Measured.....:		N/A
	Supplementary information		—
	Reinforced insulation:		N/A
	Required creepage .....:		—
	Measured.....:		N/A
	Supplementary information		—
(P.2.3)	Creepage distances for working voltages with frequencies above 30 kHz (Table P.2)		N/A
	Voltage $\hat{U}_{out}$ kV .....:		—
	Frequency.....:		—
	Required distance .....:		—
	Measured.....:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Supplementary information		—
(P.2.4)	Compliance with the required creepage distances		N/A
(P.2.4.1)	Compliance in accordance with 16.3.3 and test according P.2.4.2		N/A
(P.2.4.3)	Electrical tests after conditioning		N/A
(P.2.4.3.1)	Insulation resistance and electric strength according Clause 11 and 12		N/A
(P.3)	**Distance through isolation**		N/A
(P.3.4)	Electrical tests after conditioning		N/A
(P.3.4.1)	Insulation resistance and electric strength according Clause 11 and 12		N/A
(P.3.4.2)	Impulse voltage dielectrical test		N/A
	Basic or supplementary insulation:		N/A
	Working/rated voltage .....:		—
	Impulse voltage.....:		N/A
	Supplementary information		—
	Reinforced insulation:		N/A
	Working/rated voltage .....:		—
	Impulse voltage.....:		N/A
	Supplementary information		—

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Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 1: components						P
object/part No.	code	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity
For 24W series models						
German plug (for models RKPO-EUxxxyyyyCD-5)	A	Kenic Electric Mfg. Co. Ltd.	KE-35	250Vac, 16A, IP44	DIN VDE 0620-1 (VDE 0620-1):2010-02	VDE 40006739
(Alternative)	D	Ningbo Qiaopu Electric Co., Ltd.	D02-F	250Vac, 16A, IP44	DIN VDE 0620-2-1 (VDE 0620-2-1):2013-03	VDE 40003058
UK plug (for models RKPO-UKxxxyyyyCD-5)	A	Ching Cheng Wire Material Co Ltd	EL-210A	250Vac, 3-13A	BS 1363-1: 2016	BSI KM39096
Power cord (for models RKPO-EUxxxyyyyCD-5,RKPO-UKxxxyyyyCD-5)	A	Ningbo Qiaopu Electric Co., Ltd.	H05RN-F, H05RR-F, H07RN-F	300/500Vac, 2x 1.0mm² Min.	DIN EN 50525-2-21 (VDE 0285-525-2-21): 2012-01; EN 50525-2-21: 2011	VDE 40035531
(Alternative)	D	Dong Guan Recheer Electric Wire & Cable Co., Ltd.	H05RN-F, H05RR-F, H07RN-F	300/500Vac, 2x 1.0mm² Min.	DIN EN 50525-2-21 (VDE 0285-525-2-21):2012-01; EN 50525-2-21:2011	VDE 40015173
(Alternative)	D	Ningbo Dabu Electric Appliance Co., Ltd.	H05RN-F, H05RR-F, H07RN-F	300/500Vac, 2x 1.0mm² Min.	DIN EN 50525-2-21 (VDE 0285-525-2-21): 2012-01; EN 50525-2-21: 2011	VDE 40030691
(Alternative)	D	Ningbo Xuanshi Electronics Co., Ltd.	H05RN-F, H05RR-F, H07RN-F	300/500Vac, 2x 1.0mm² Min.	DIN EN 50525-2-21 (VDE 0285-525-2-21):2012-01; EN 50525-2-21:2011	VDE 40017772

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Clause	Requirement + Test	Result - Remark	Verdict

EU plug (for models RKP-EUxxxyyyyCD-5)	A	Unirise Electric Wire & Cable Co., Ltd.	UE-221	250Vac, 2.5A, IP20	DIN VDE 0620 Teil 101:1992-05; EN 50075:1990	VDE 40014452
(Alternative)	D	Hong Shan Chuan Industry (Shen Zhen) Co., Ltd.	HSC-401	250Vac, 2.5A, IP20	DIN VDE 0620 Teil 101:1992-05; EN 50075:1990	VDE 40020005
(Alternative)	D	Kenic Electric Mfg. Co. Ltd.	KE-23	250Vac, 16A, IP20	DIN VDE 0620-2-1 (VDE 0620-2-1):2016-01	VDE 40002191
(Alternative)	D	Chao Hui Electrical Appliance Co., Ltd.	CH-221	250Vac, 2.5A, IP20	DIN VDE 0620 Teil 101:1992-05; EN 50075:1990	VDE 40017597
UK plug (for models RKP-UKxxxyyyyCD-5)	A	Luen Tai Ip's Electrical (Shenzhen) Co., Ltd.	9518	250V, 13A	BS 1363-1: 2016	BSI KM 40790
Power cord (for models RKP-EUxxxyyyyCD-5, RKP-UKxxxyyyyCD-5)	A	Unirise Electric Wire & Cable Co., Ltd.	H03VV-F, H03VVH2-F, H05VVH2-F	300/500Vac, 2x 0.75mm² min.	DIN EN 50525-2-11 (VDE 0285-525-2-11):2012-01; EN 50525-2-11:2011	VDE 40017449
(Alternative)	D	Ningbo Qiaopu Electric Co., Ltd.	H03VV-F, H03VVH2-F, H05VVH2-F	300/500Vac, 2x 0.75mm² min.	DIN EN 50525-2-11 (VDE 0285-525-2-11):2012-01; EN 50525-2-11:2011	VDE 40035976
(Alternative)	D	Ningbo Xuanshi Electronics Co., Ltd.	H03VV-F, H03VVH2-F, H05VVH2-F	300/500Vac, 2x 0.75mm² min.	DIN EN 50525-2-21 (VDE 0285-525-2-21):2012-01; EN 50525-2-21:2011	VDE 40011761
German Plug portion (for models RKPO-EUxxxyyyy)	C	Dongguan Rico Electronic Co., Ltd.	RKPO-EUxxxyyyy	250Vac, 0.6A	DIN VDE 0620-2-1: 2013	Tested with appliance (attachment 3)

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Clause	Requirement + Test	Result - Remark	Verdict

UK plug portion (for models RKPO-UKxxxyyyy)	C	Dongguan Rico Electronic Co., Ltd.	RKPO-UKxxxyyyy	250Vac, 0.6A	BS 1363-1	Tested with appliance (attachment 2)
UK Plug portion (for models RKP-UKxxxyyyyDP-5)	C	Dongguan Rico Electronic Co., Ltd.	RKP-UKxxxyyyyDP-5	250Vac, 0.6A	BS 1363-1	Tested with appliance (attachment 4)
Enclosure, plug pin holder, pin sleeve (for models RKPO-zzxxxyyyy, RKP-UKxxxyyyyDP-5)	B	SABIC INNOVATIVE PLASTICS B V	357M(f1)	V-0, min. 1.5mm thickness, 120°C	UL 94	UL E45329
Metal material of Plug pin (for models RKPO-zzxxxyyyy, RKP-UKxxxyyyyDP-5)	C	Interchangeable	Interchangeable	Copper content : Min. 64.5%	--	Test with appliance
Plastic of output Connector (for models RKPO-EUxxxyyyy, RKPO-zzxxxyyyyCD-5)	B	DONGGUAN QILONG ELECTRICITY CO LTD	QL 80A	PVC, V-0, 50°C	UL 94	UL E351522
Output connector (for models RKP-UKxxxyyyyDP-5, RKP-zzxxxyyyyCD-5)	C	Interchangeable	Interchangeable	Diameter: min. 5.8mm	--	Test with appliance
Internal input wire (for models RKPO-zzxxxyyyy)	D	Interchangeable	Interchangeable	24-18AWG, 80ºC, 300V	UL 758	UL E352132
Internal input wire (for models RKP-UKxxxyyyyDP-5)	D	Interchangeable	Interchangeable	24-18AWG, 80ºC, 300V	UL 758	UL E352132

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Clause	Requirement + Test	Result - Remark	Verdict

Internal output wire (for models RKPO-zzxxxyyyy, RKPO-zzxxxyyyyCD-5)	D	Interchangeable	Interchangeable	**Min. 18AWG (for models those output current>2A) or min. 21AWG (for models those output current≤2A),** 80ºC, 300V	UL 758	UL E352132
Output wire (for models RKP-UKxxxyyyyDP-5, RKP-zzxxxyyyyCD-5)	D	Interchangeable	Interchangeable	**Min. 18AWG (for models those output current>2A) or min. 21AWG (for models those output current≤2A),** 80ºC, 300V	UL 758	UL E352132
PCB	B,C	Interchangeable	Interchangeable	V-0 or better, 130 °C	UL 94	UL
Heat Shrinkable tube for fuse	B	DONGGUAN SALIPT CO LTD	SALIPT S-901-300	300V, 125°C, VW-1	UL 224	UL
Fuse (F1)	A	DONGGUAN HONGDA ELECTRONIC TECHNOLOGY	31TC	T2A, 250Vac	IEC/EN 60127-1 IEC/EN 60127-3	VDE 40028150
(Alternative)	D	Walter Electronic Co., Ltd	ICP-Series	T2A, 250Vac	IEC/EN 60127-1 IEC/EN 60127-3	VDE 40012824
(Alternative)	D	Dongguan Better Electronic Technology Co., Ltd.	334-Serie(s)	T2A, 250Vac	IEC/EN 60127-1 IEC/EN 60127-3	VDE 40025428
(Alternative)	D	Littelfuse Phils. Inc.	877	T2A, 250Vac	IEC/EN 60127-1 IEC/EN 60127-3	VDE 40023242
Y- capacitor (CY1, CY2) (Y1 type) (Optional)	A	Dongguan Easy-gather Electronic Co., Ltd.	DCF	Max. 3300pF, 400VAC, 125°C	IEC/EN 60384-14	VDE 40022942

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Clause	Requirement + Test	Result - Remark	Verdict

(Alternative) (Optional)	D	Guangdong South Hongming Electronic Science and Technology Co., Ltd.	F	Max. 3300pF, 250VAC, 125°C	IEC/EN 60384-14	VDE 40036393
Opto-coupler (U2)	A	Everlight Electronics Co., Ltd.	EL817 V	Ext. dcr.=7.7mm, 110°C	IEC/EN 60747-5-5	VDE 132249
(Alternative)	D	Changzhou Galaxy Century Micro-electronics Co., Ltd.	BPC-817 C	Ext. dcr≥7.8mm, 110 ºC	IEC/EN 60747-5-5	VDE 40034140
Line Filter (L1)	B	Dongguan Rico Electronic Co., Ltd.	UU9.8	130ºC	IEC/EN 61347-2-13	Tested with appliance
-Bobbin	B	CHANG CHUN PLASTICS CO LTD	T375J	Phenolic, V-0, 150°C	UL 94	UL E59481
- Magnet Wire	B	DONG GUAN YIDA INDUSTRIAL CO LTD	UEW/155	155°C	UL 1446	UL E344055
(Alternative)	C	Interchangeable	Interchangeable	130°C	UL 1446	UL
Bridge Diodes (D1-D4)	C	Interchangeable	Interchangeable	Min. 1A, Min. 600V	IEC/EN 61347-2-13	Tested with appliance
Electrolytic Capacitor (C2)	C	Interchangeable	Interchangeable	33uF, Min .400V, 105°C	IEC/EN 61347-2-13	Tested with appliance
Transistors (C1)	C	Interchangeable	Interchangeable	22uF, Min .400V, 105°C	IEC/EN 61347-2-13	Tested with appliance
Transformer (T1) (For output: 3Vdc, 3.5Vdc, 5Vdc)	B	Dongguan Rico Electronic Co., Ltd.	RK24-05V0	Class B	IEC/EN 61347-2-13	Tested with appliance
Transformer (T1) (For output: 9Vdc, 12Vdc)	B	Dongguan Rico Electronic Co., Ltd.	RK24-12V0	Class B	IEC/EN 61347-2-13	Tested with appliance

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Clause	Requirement + Test	Result - Remark	Verdict

Transformer (T1) (For output: 24Vdc)	B	Dongguan Rico Electronic Co., Ltd.	RK24-24V0	Class B	IEC/EN 61347-2-13	Tested with appliance
-Bobbin	B,C	Chang Chun Plastics Co., Ltd.	T375J	Phenolic, V-0, 150 °C, min. thickness 0.7mm.	UL 94, UL 746C	UL E59481
-Magnet wire	B,C	DONG GUAN YIDA INDUSTRIAL CO LTD	UEW/155	155°C	UL 1446	UL E344055
(Alternative)	D	Interchangeable	Interchangeable	130°C	UL 1446	UL
-Insulation tape	B,C	Jingjiang Yahua Pressure Sensitive Glue Co Ltd	PZ,CT	130°C	UL 510	UL E165111
(Alternative)	D	SUZHOU MAILADUONA ELECTRIC MATERIAL CO LTD	JY312	130 °C.	UL510	UL E188295
-Triple insulated wire	B,C	Furukawa Electric Co., Ltd	TEX-E	130°C	IEC/EN 60950-1, annex K of IEC/EN 61558-2-16	VDE 6735
Silicone Rubber	B	Shen Zhen Anpin Silicone Material Co Ltd	AP-905B	V-0, 105ºC	UL 94	UL E257078
(Alternative)	D	Shenzhen Bonic Science & Technology Ltd	BN160	V-0, 150ºC	UL 94	UL E254560
(Alternative)	D	TIANHUAN TECH(DONGGUAN) CO LTD	TH100A/B--2	V-0,,130 ºC	UL 94	UL E257593
For 12W and 6W series models						

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Clause	Requirement + Test	Result - Remark	Verdict

German plug (for models RKPO-EUxxxyyyyCD-2, RKPO-EUxxxyyyyCD-1)	A	Kenic Electric Mfg. Co. Ltd.	KE-35	250Vac, 16A, IP44	DIN VDE 0620-1 (VDE 0620-1):2010-02	VDE 40006739
(Alternative)	D	Ningbo Qiaopu Electric Co., Ltd.	D02-F	250Vac, 16A, IP44	DIN VDE 0620-2-1 (VDE 0620-2-1):2013-03	VDE 40003058
UK plug (for models RKPO-UKxxxyyyyCD-2, RKPO-UKxxxyyyyCD-1)	A	Ningbo Qiaopu Electric Co., Ltd	D09	300Vac, 13A (fused plug)	BS 1363-1: 1995 + A4: 2012	ASTA Cert. No.930
(Alternative)	D	Ching Cheng Wire Material Co Ltd	EL-210A	250Vac, 3-13A	BS 1363-1: 2016	BSI KM39096
Power cord (for models RKPO-EUxxxyyyyCD-2, RKPO-EUxxxyyyyCD-1, RKPO-UKxxxyyyyCD-2, RKPO-UKxxxyyyyCD-1)	A	Ningbo Qiaopu Electric Co., Ltd.	H05RN-F, H05RR-F, H07RN-F	300/500Vac, 2x 1mm² Min.	DIN EN 50525-2-21 (VDE 0285-525-2-21): 2012-01; EN 50525-2-21: 2011	VDE 40035531
(Alternative)	D	Ningbo Dabu Electric Appliance Co., Ltd.	H05RN-F, H05RR-F, H07RN-F	300/500Vac, 2x 1mm² Min.	DIN EN 50525-2-21 (VDE 0285-525-2-21): 2012-01; EN 50525-2-21: 2011	VDE 40030691
(Alternative)	D	Ningbo Xuanshi Electronics Co., Ltd.	H05RN-F, H05RR-F, H07RN-F	300/500Vac, 2x 1mm² Min.	DIN EN 50525-2-21 (VDE 0285-525-2-21):2012-01; EN 50525-2-21:2011	VDE 40017772

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Clause	Requirement + Test	Result - Remark	Verdict

German Plug portion (for models RKPO-EUxxxyyyy-D2, RKPO-EUxxxyyyy-D1)	C	Dongguan Rico Electronic Co., Ltd.	RKPO-EUxxxyyyy	250Vac, 0.3A	DIN VDE 0620-1:2010-02	Tested with appliance (attachment 3)
UK plug portion (for models RKPO-UKxxxyyyy-D2, RKPO-UKxxxyyyy-D1)	C	Dongguan Rico Electronic Co., Ltd.	RKPO-UKxxxyyyy	250Vac, 0.3A	BS 1363-1	Tested with appliance (attachment 2)
German Plug portion (for models RKPO-EUxxxyyyyDP-2)	C	Dongguan Rico Electronic Co., Ltd.	RKPO-EUxxxyyyyDP-2	250Vac, 0.3A	DIN VDE 0620-2-1: 2013	TUV Rheinland (test report number: 50124075 001)
UK plug portion (for models RKPO-UKxxxyyyyDP-2)	C	Dongguan Rico Electronic Co., Ltd.	RKPO-UKxxxyyyyDP-2	250Vac, 0.3A	BS 1363-1	Tested with appliance (attachment 6)
German Plug portion (for models RKPO-EUxxxyyyyDP-2A)	C	Dongguan Rico Electronic Co., Ltd.	RKPO-EUxxxyyyyDP-2A	250Vac, 0.3A	DIN VDE 0620-2-1: 2013	TUV Rheinland (test report number: 50124076 001)
EU Plug portion (for models RKP-EUxxxyyyyDP-2)	C	Dongguan Rico Electronic Co., Ltd.	RKP-EUxxxyyyyDP-2	250Vac, 0.3A	EN 50075	Tested with appliance (attachment 8)
UK plug portion (for models RKP-UKxxxyyyyDP-2)	C	Dongguan Rico Electronic Co., Ltd.	RKP-UKxxxyyyyDP-2	250Vac, 0.3A	BS 1363-1	Tested with appliance (attachment 6)
EU Plug portion (for models RKP-EUxxxyyyyDP-1)	C	Dongguan Rico Electronic Co., Ltd.	RKP-EUxxxyyyyDP-1	250Vac, 0.3A	EN 50075	Tested with appliance (attachment 9)

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Clause	Requirement + Test	Result - Remark	Verdict

UK Plug portion (for models RKP-UKxxxyyyyDP-1)	C	Dongguan Rico Electronic Co., Ltd.	RKP-UKxxxyyyyDP-1	250Vac, 0.3A	BS 1363-1	Tested with appliance (attachment 7)
Plug pin holder (for models RKPO-zzxxxyyyy-D2, RKPO-zzxxxyyyy-D1, RKPO-zzxxxyyyyDP-2, RKPO-zzxxxyyyyDP-2A, RKP-zzxxxyyyyDP-2, RKP-zzxxxyyyyDP-1)	B,C	SABIC INNOVATIVE PLASTICS B V	943X(GG)(X)	PC, V-0, 120°C, Min. thickness: 1.5mm	UL 746	UL E45329
UK ISOD material (for models RKPO-UKxxxyyyy-D2, RKPO-UKxxxyyyy-D1, RKPO-UKxxxyyyyDP-2, RKP-UKxxxyyyyDP-2, RKP-UKxxxyyyyDP-1)	B,C	SABIC INNOVATIVE PLASTICS B V	943X(GG)(X)	PC, V-0, 120°C, Min. thickness: 1.5mm	UL 746	UL E45329
Plug pin sleeve (for models RKP-EUxxxyyyyDP-2, RKP-EUxxxyyyyDP-1)	B,C	SABIC INNOVATIVE PLASTICS B V	943X(GG)(X)	PC, V-0, 120°C, Min. thickness: 1.5mm	UL 746	UL E45329
Metal material of Plug pin	C	Interchangeable	Interchangeable	Copper content : Min. 64.5%	--	Test with appliance (See attachment 3)
Enclosure	B,C	SABIC INNOVATIVE PLASTICS B V	357M(f1)	V-0, min. 2.5mm thickness, 130°C	UL 746	UL E45329

IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

DC Connector plastic (for models RKP-zzxxxyyyyDP-2, RKP-zzxxxyyyyDP-1)	B,C	DONGGUAN QILONG ELECTRICITY CO LTD	QL80A	V-0, Min. 2.5mm thickness, 50°C	UL 746	UL E351522
Output connector (for models RKP-zzxxxyyyyDP-2, RKP-zzxxxyyyyDP-1)	C	Interchangeable	Interchangeable	Diameter: min. 5.8mm	--	Test with appliance
Input lead wire (for models RKPO-zzxxxyyyy-D2, RKPO-zzxxxyyyy-D1, RKP-zzxxxyyyyDP-1)	B,C	Interchangeable	Interchangeable	24AWG-18AWG, 105ºC, 300V	UL 758	UL
Internal output lead wire (for models RKPO-zzxxxyyyy-D2, RKPO-zzxxxyyyyDP-2, RKPO-zzxxxyyyyCD-2, RKPO-zzxxxyyyy-D1, RKPO-zzxxxyyyyCD-1)	B,C	Interchangeable	Interchangeable	**Min. 18AWG (for models those output current>2A) or min. 21AWG (for models those output current≤2A), 90°C**, 300V	UL 758	UL
Output lead wire (for models RKP-zzxxxyyyyDP-2, RKP-zzxxxyyyyDP-1)	B,C	Interchangeable	Interchangeable	**Min. 18AWG (for models those output current>2A) or min. 21AWG (for models those output current≤2A), 90°C**, 300V	UL 758	UL
PCB	D	Interchangeable	Interchangeable	V-1 or better, 130 °C	UL 94, UL 746	UL

IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

Y- capacitor (CY1) (Y1 type)	B	Guangdong South Hongming Electronic Science and Technology Co., Ltd.	F	Max. 3300pF, 250VAC, 125°C	IEC/EN 60384-14	VDE 40036393
(Alternative)	D	Shantou High-New Technology Dev. Zone Songtian Enterprise Co., Ltd.	CD-Series	Max. 3300pF, 275VAC, 125°C	IEC/EN 60384-14	VDE 40025754
For 6W series models						
Fusible Resistor (F1)	B	DONGGUAN HONGDA ELECTRONIC TECHNOLOGY CO.,LTD Co., Ltd	RXF	1W&1WS, 10R	DIN EN 60065	VDE 40036858
Heat Shrinkable tube for fuse	B, C	DONGGUAN SALIPT CO LTD	SALIPT S-901-300	Rating 300V, Minimum 125°C	UL 224	UL E209436
Bridge Diodes (BD1)	C	Interchangeable	Interchangeable	Min. 0.5A, Min. 600V	IEC/EN 61347-2-13	Tested with appliance
Line Filter (L1)	C	Interchangeable	Interchangeable	130 ºC, 1mH	IEC/EN 61347-2-13	Tested with appliance
Line Filter (L2)	C	Interchangeable	Interchangeable	130 ºC, 1µH	IEC/EN 61347-2-13	Tested with appliance
Current sensor Resistor (R6)	B, C	Interchangeable	Interchangeable	Min. 0.47Ω, Min. 1/4W.	IEC/EN 61347-2-13	Tested with appliance
IC1	C	Interchangeable	Interchangeable	Min. 600V, Min. 0.8A.	IEC/EN 61347-2-13	Tested with appliance
Secondary capacitor C11	C	Interchangeable	Interchangeable	110 ºC	IEC/EN 61347-2-13	Tested with appliance
Transformer (T1) Output:3-8.9Vdc	C	Dongguan Rico Electronic Co.,Ltd	RK06-05	Class B	IEC/EN 61347-2-13	Tested with appliance

IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

Transformer (T1) Output:9-18.9Vdc	C	Dongguan Rico Electronic Co.,Ltd	RK06-12	Class B	IEC/EN 61347-2-13	Tested with appliance
Transformer (T1) Output:19-24Vdc	C	Dongguan Rico Electronic Co.,Ltd	RK06-24	Class B	IEC/EN 61347-2-13	Tested with appliance
Bobbin of T1	B, C	SUMITOMO BAKELITE CO LTD	PM-9820	Phenolic, V-0, 150 °C, min. thickness 0.8mm.	UL 94	UL E41429
Insulation tape of T1	B, C	Jingjiang Yahua Pressure Sensitive Glue Co Ltd	PZ, CT	130°C	UL 510	UL E165111
(Alternative)	B, C	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1	130 °C.	UL 510	UL E17385
Triple insulated wire (T1)	B	Furukawa Electric Co., Ltd	TEX-E	130°C	IEC/EN 60950-1, annex K of IEC/EN 61558-2-16	VDE 6735
(Alternative)	D	TOTOKU ELECTRIC CO.,LTD	TIW-2X	130°C	UL 2353	UL E305883
For 12W series models						
Fusible resistor (F1)	B	DONGGUAN HONGDA ELECTRONIC TECHNOLOGY CO.,LTD Co., Ltd	RXF	1W&1WS, 4.7R	DIN EN 60065	VDE 40036858
Varistor (MOV1) (optional)	B	Guangdong South Hongming Electronic Science and Technology Co., Ltd.	ZVR-10D-471	Max. 300Vac, 85°C, V-0 coating, 6KV/3KA complied	IEC/EN 61051-1 IEC 61051-2 IEC 61051-2-2 UL 1449	VDE 40027789 UL E321851

IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

(Alternative) (optional)	D	SHANTOU HIGH-NEW TECHNOLOGY DEVELOPMNT ZONE SONGTIAN ENTERPRISE CO LTD	10D471K	Max. 300Vac, 85°C, V-0 coating, 6KV/3KA complied	IEC/EN 61051-1 IEC 61051-2 IEC 61051-2-2 UL 1449	VDE 40023049 UL E330837
Bridge Diodes (BD1)	C	Interchangeable	Interchangeable	Min. 0.5A, Min. 600V	IEC/EN 61347-2-13	Tested with appliance
Line Filter (L1)	C	Interchangeable	Interchangeable	130 ºC, 1mH	IEC/EN 61347-2-13	Tested with appliance
Current sensor Resistor (R5, R6)	C	Interchangeable	Interchangeable	Min. 0.51Ω, min.1/4W.	IEC/EN 61347-2-13	Tested with appliance
IC1	C	Interchangeable	Interchangeable	Min. 800V, Min. 0.8A.	IEC/EN 61347-2-13	Tested with appliance
Transformer (T1) Output:3-8.9Vdc	C	Dongguan Rico Electronic Co.,Ltd	RK12-05VI	Class B	IEC/EN 61347-2-13	Tested with appliance
Transformer (T1) Output: 9-18Vdc	C	Dongguan Rico Electronic Co.,Ltd	RK12-12VI	Class B	IEC/EN 61347-2-13	Tested with appliance
Transformer (T1) Output:18-24Vdc	C	Dongguan Rico Electronic Co.,Ltd	RK12-24VI	Class B	IEC/EN 61347-2-13	Tested with appliance
Bobbin of T1	B, C	SUMITOMO BAKELITE CO LTD	PM-9820	Phenolic, V-0, 150 °C, min.	UL 94, UL 746C	UL E41429
Insulation tape of T1	B, C	Jingjiang Yahua Pressure Sensitive Glue Co Ltd	PZ,CT	130°C	UL 510	UL E165111
(Alternative)	D	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1	130 °C.	UL 510	UL E17385
Triple insulated wire (T1)	B	Furukawa Electric Co., Ltd	TEX-E	130°C	IEC/EN 60950-1, annex K of IEC/EN 61558-2-16	VDE 6735

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Clause	Requirement + Test	Result - Remark	Verdict

(Alternative)	D	TOTOKU ELECTRIC CO.,LTD	TIW-2X	130°C	UL 2353	UL E305883
Silicone Rubber	B, C	Shen Zhen Anpin Silicone Material Co Ltd	AP-905B	V-0, 105ºC	UL 94	UL E257078
(Alternative)	D	Shenzhen Bonic Science & Technology Ltd	BN160	V-0, 150ºC	UL 94	UL E254560
(Alternative)	D	TIANHUAN TECH(DONGGUAN) CO LTD	TH100A/B--2	V-0,130 ºC	UL 94	UL E257593

The codes above have the following meaning:

A - The component is replaceable with another one, also certified, with equivalent characteristics

B - The component is replaceable if authorised by the test house

C - Integrated component tested together with the appliance

D - Alternative component

IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 2	**Screw terminals (part of the luminaire)**		N/A
(14)	**SCREW TERMINALS**		N/A
(14.2)	Type of terminal.....:	Not used.	—
	Rated current (A).....:		—
(14.3.2.1)	One or more conductors		N/A
(14.3.2.2)	Special preparation		N/A
(14.3.2.3)	Terminal size		N/A
	Cross-sectional area (mm²).....:		—
(14.3.3)	Conductor space (mm).....:		N/A
(14.4)	Mechanical tests		N/A
(14.4.1)	Minimum distance		N/A
(14.4.2)	Cannot slip out		N/A
(14.4.3)	Special preparation		N/A
(14.4.4)	Nominal diameter of thread (metric ISO thread) .....:	M	N/A
	External wiring		N/A
	No soft metal		N/A
(14.4.5)	Corrosion		N/A
(14.4.6)	Nominal diameter of thread (mm).....:		N/A
	Torque (Nm).....:		N/A
(14.4.7)	Between metal surfaces		N/A
	Lug terminal		N/A
	Mantle terminal		N/A
	Pull test; pull (N) .....:		N/A
(14.4.8)	Without undue damage		N/A

IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 3	**Screwless terminals (part of the luminaire)**		N/A
(15)	**SCREWLESS TERMINALS**		N/A
(15.2)	Type of terminal..... :	Not used.	—
	Rated current (A)..... :		—
(15.3.1)	Material		N/A
(15.3.2)	Clamping		N/A
(15.3.3)	Stop		N/A
(15.3.4)	Unprepared conductors		N/A
(15.3.5)	Pressure on insulating material		N/A
(15.3.6)	Clear connection method		N/A
(15.3.7)	Clamping independently		N/A
(15.3.8)	Fixed in position		N/A
(15.3.10)	Conductor size		N/A
	Type of conductor		N/A
(15.5)	Terminals and connections for internal wiring		N/A
(15.5.1)	Mechanical tests		N/A
(15.5.1.1.1)	Pull test spring-type terminals (4 N, 4 samples)..... :		N/A
(15.5.1.1.2)	Pull test pin or tab terminals (4 N, 4 samples)..... :		N/A
	Insertion force not exceeding 50 N		N/A
(15.5.1.2)	Permanent connections: pull-off test (20 N)		N/A
(15.5.2)	Electrical tests		N/A
	Voltage drop (mV) after 1 h (4 samples)..... :		N/A
	Voltage drop of two inseparable joints		N/A
	Number of cycles:		—
	Voltage drop (mV) after 10th alt. 25th cycle (4 samples)..... :		N/A
	Voltage drop (mV) after 50th alt. 100th cycle (4 samples)..... :		N/A
	After ageing, voltage drop (mV) after 10th alt. 25th cycle (4 samples)..... :		N/A
	After ageing, voltage drop (mV) after 50th alt. 100th cycle (4 samples)..... :		N/A
(15.6)	Terminals and connections for external wiring		N/A
(15.6.1)	Conductors		N/A
	Terminal size and rating		N/A
15.6.2	Mechanical tests		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
(15.6.2.1)	Pull test spring-type terminals or welded connections (4 samples); pull (N) ..... :		N/A
(15.6.2.2)	Pull test pin or tab terminals (4 samples); pull (N) ..... :		N/A
(15.6.3)	Electrical tests		N/A
	Tests according 15.6.3.1 + 15.6.3.2 in IEC 60598-1		N/A

(15.6.3.1) (15.6.3.2)	**TABLE: Contact resistance test / Heating tests**									N/A
	Voltage drop (mV) after 1 h									—
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										N/A
	Voltage drop of two inseparable joints									N/A
	Voltage drop after 10th alt. 25th cycle									N/A
	Max. allowed voltage drop (mV)									—
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										N/A
	Voltage drop after 50th alt. 100th cycle									N/A
	Max. allowed voltage drop (mV)									—
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										N/A
	Continued ageing: voltage drop after 10th alt. 25th cycle									N/A
	Max. allowed voltage drop (mV)									—
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										N/A
	Continued ageing: voltage drop after 50th alt. 100th cycle									N/A
	Max. allowed voltage drop (mV)									—
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										N/A
										N/A
Supplementary information:										

IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 4 : temperature measurements, thermal tests			
	Type reference..... :	**RKPO-EU0503000**	—
	Load used..... :	Equivalent load or LED module	—
	Mounting position of luminaire..... :	On the black testing board	—
	Ta ..... :	40°C	—
	- test : rated voltage..... :	100V-240V	—
	- test : test voltage(normal)..... :	Input : 1.06U_R=106V; I=0.374A; P=19.3W; 1.06U_R=254.4V; I=0.179A; P=19.5W; Output: U=5.03V; I=3A	—
	- test : test voltage(abnormal)..... :	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.01A; P=0.09W 2. Over load: 1.1U_R= 264V; I= 0.201A; P=23.0W; Output: U=5.03V; I= 3.56A 0.9U_R= 90V; I= 0.485A; P=21.6W; Output: U=5.01V; I= 3.32A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Horizontal	Vertical	Horizontal	Vertical	
Internal input wire	58.9	62.5	55.1	59.1	80
Ripple capacitor (C1)	68.9	71.3	62.7	66.5	105
Line choke (L1) winding	78.7	81.0	65.7	69.4	130
Line choke (L1) core	68.9	71.5	59.9	64.0	130
Ripple capacitor (C2)	78.6	78.7	76.1	77.9	105
Ripple capacitor (C4)	83.3	80.5	82.9	82.1	105
Y capacitor (CY1)	91.4	89.6	95.2	94.6	125
Transformer (T1) winding 1	98.6	96.4	105.3	104.6	110
Transformer (T1) winding 2	99.3	97.3	106.3	105.7	110
Transformer (T1) core	95.2	93.1	101.5	101.0	110
Optocoupler (U2)	75.6	71.1	77.9	74.4	110

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Clause	Requirement + Test		Result - Remark		Verdict

PCB under near Transformer (T1)	85.5	81.2	89.6	86.1	130
Ripple capacitor (C11)	93.9	95.4	99.0	96.5	105
Ripple capacitor (C12)	75.7	71.6	78.5	75.2	105
Line choke (L2) winding	82.7	79.0	85.9	82.9	130
Internal output wire	67.1	64.3	69.1	67.0	80
Plastic enclosure near plug pin holder (internal)	78.5	74.1	82.1	78.8	120
Plastic enclosure near T1 (internal)	64.3	60.8	66.0	63.3	120
Plastic enclosure near output connector (internal)	75.3	74.5	78.9	79.6	120
Plastic enclosure near plug pin holder (external)	68.6	69.0	71.0	70.4	75
Plastic enclosure near T1 (external)(Tc)	57.7	55.0	59.0	56.8	75
Plastic enclosure near output connector (external)	63.8	62.8	65.9	66.1	70
Plastic enclosure near plug pin holder	47.7	49.1	47.9	49.3	70
Support	48.5	48.6	49.5	49.9	90
Ambient	40.0	40.0	40.0	40.0	--
Abnormal condition					
temperature (K/°C) of part	Abnormal				
	90V/60Hz		264V50Hz		Limit
--	--		--		--
Overload condition					
temperature (K/°C) of part	Abnormal				
	--		264V/50Hz/ Horizontal		Limit
Internal input wire	--		57.5		85
Line choke (L1) winding	--		69.8		175-10=165.0
Line choke (L1) core	--		62.7		175-10=165.0
Transformer (T1) winding 1	--		115.2		175-10=165.0
Transformer (T1) winding 2	--		116.5		175-10=165.0
Transformer (T1) core	--		110.5		175-10=165.0
Line choke (L2) winding	--		94.7		175-10=165.0
Internal output wire	--		74.7		85
Plastic enclosure near plug pin holder (external)	--		75.9		105

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Clause	Requirement + Test	Result - Remark	Verdict

Plastic enclosure near T1 (external)(Tc)	--	60.8	105
Plastic enclosure near output connector (external)	--	70.0	105
Plastic enclosure near plug pin holder	--	49.1	105
Support	--	51.8	105
Ambient	--	40.0	--

According to normal heating result, The overload heating performed at 264V/50Hz, Horizontal condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference.....:	**RKPO-EU1202000**	—
	Load used.....:	Equivalent load or LED module	—
	Mounting position of luminaire.....:	On the black testing board	—
	Ta.....:	40°C	—
	- test : rated voltage.....:	100V-240V	—
	- test : test voltage(normal).....:	Input : 1.06U_R=106V; I=0.524A; P=28.9W; 1.06U_R=254.4V; I=0.240A; P=28.5W; Output: U=12.11V; I=2.0A;	—
	- test : test voltage(abnormal).....:	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.01A; P=0.11W 2. Over load: 1.1U_R= 264V; I= 0.296A, P=36.8W, Output: U=12.11V; I= 2.6A; 0.9U_R= 90V; I= 0.691A, P=34.8W; Output: U=12.11V; I= 2.3A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Horizontal	Vertical	Horizontal	Vertical	
Internal input wire	65.0	70.0	59.8	65.0	80
Ripple capacitor (C1)	79.9	85.4	68.5	73.9	105
Line choke (L1) winding	98.0	103.7	72.0	77.3	130

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Clause	Requirement + Test		Result - Remark		Verdict

Line choke (L1) core	89.7	95.6	67.4	72.8	130
Ripple capacitor (C2)	89.3	91.2	81.2	84.1	105
Ripple capacitor (C4)	96.1	93.0	90.2	89.2	105
Y capacitor (CY1)	96.5	95.8	96.9	97.0	125
Transformer (T1) winding 1	101.8	100.4	106.3	103.9	110
Transformer (T1) winding 2	98.4	99.7	109.3	100.5	110
Transformer (T1) core	99.0	97.7	104.8	99.6	110
Optocoupler (U2)	84.9	79.9	84.8	80.7	110
PCB under near Transformer (T1)	88.0	82.7	89.7	84.5	130
Ripple capacitor (C11)	97.5	92.7	94.2	93.9	105
Ripple capacitor (C12)	77.0	72.0	78.1	72.8	105
Line choke (L2) winding	85.6	81.1	86.8	82.1	130
Internal output wire	71.4	68.3	72.5	69.1	80
Plastic enclosure near plug pin holder (internal)	93.6	88.7	91.7	87.8	120
Plastic enclosure near T1 (internal)	69.3	65.7	69.4	66.1	120
Plastic enclosure near output connector (internal)	72.2	69.5	73.0	70.4	120
Plastic enclosure near plug pin holder (external)	70.1	67.6	67.3	69.4	75
Plastic enclosure near T1 (external)(Tc)	61.5	58.7	62.1	59.2	75
Plastic enclosure near output connector (external)	63.8	60.4	65.2	61.5	70
Plastic enclosure near plug pin holder	51.0	54.8	50.4	53.6	70
Support	44.9	44.4	45.2	44.9	90
Ambient	40.0	40.0	40.0	40.0	--
Abnormal condition					
temperature (K/°C) of part	Abnormal				
	90V/60Hz		264V50Hz		Limit
--	--		--		--
Overload condition					
temperature (K/°C) of part	Abnormal				
	--		264V/50Hz/ Horizontal		Limit
Internal input wire	--		62.9		85
Line choke (L1) winding	--		76.4		175-10=165.0

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Clause	Requirement + Test	Result - Remark	Verdict

Line choke (L1) core	--	71.4	175-10=165.0
Transformer (T1) winding 1	--	121.0	175-10=165.0
Transformer (T1) winding 2	--	140.5	175-10=165.0
Transformer (T1) core	--	123.0	175-10=165.0
Line choke (L2) winding	--	93.4	175-10=165.0
Internal output wire	--	76.7	85
Plastic enclosure near plug pin holder (external)	--	83.0	105
Plastic enclosure near T1 (external)(Tc)	--	64.8	105
Plastic enclosure near output connector (external)	--	67.9	105
Plastic enclosure near plug pin holder	--	51.4	105
Support	--	46.3	105
Ambient	--	40.0	--

According to normal heating result, The overload heating performed at 264V/50Hz, Horizontal condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference.....:	**RKPO-EU2401000**	—
	Load used.....:	Equivalent load or LED module	—
	Mounting position of luminaire.....:	On the black testing board	—
	Ta.....:	40°C	—
	- test : rated voltage.....:	100V-240V	—
	- test : test voltage(normal).....:	Input : 1.06U_R=106V; I=0.523A; P=28.0W; 1.06U_R=254.4V; I=0.237A; P=27.7W; Output: U=24.15V; I=1.0A;	—
	- test : test voltage(abnormal).....:	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.01A; P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.757A; P=38.4W; Output: U=24.13V; I= 1.29A;	—

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Clause	Requirement + Test	Result - Remark	Verdict

		1.1U_R= 264V; I= 0.312A; P=39.0W; Output: U=24.13V; I= 1.43A	

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Horizontal	Vertical	Horizontal	Vertical	
Internal input wire	61.7	62.5	55.0	56.6	80
Ripple capacitor (C1)	77.1	76.4	63.7	65.0	105
Line choke (L1) winding	98.3	97.4	69.2	70.4	130
Line choke (L1) core	91.7	89.9	69.8	70.7	130
Ripple capacitor (C2)	88.7	84.5	78.1	77.6	105
Ripple capacitor (C4)	90.5	80.7	83.3	77.9	105
Y capacitor (CY1)	92.6	85.8	90.0	87.1	125
Transformer (T1) winding 1	106.4	98.9	107.6	104.1	110
Transformer (T1) winding 2	109.8	102.1	107.4	107.8	110
Transformer (T1) core	105.4	97.8	107.3	103.7	110
Optocoupler (U2)	83.1	73.0	81.0	74.3	110
PCB under near Transformer (T1)	81.9	72.5	80.8	73.9	130
Ripple capacitor (C11)	76.6	68.0	75.1	68.8	105
Ripple capacitor (C12)	71.8	63.0	70.5	64.0	105
Line choke (L2) winding	88.7	80.2	87.1	81.2	130
Internal output wire	60.6	53.9	59.7	54.7	80
Plastic enclosure near plug pin holder (internal)	87.7	76.8	83.3	77.3	120
Plastic enclosure near T1 (internal)	73.4	69.1	69.7	68.8	120
Plastic enclosure near output connector (internal)	73.0	67.8	74.5	71.0	120
Plastic enclosure near plug pin holder (external)	70.0	69.9	67.3	70.9	75
Plastic enclosure near T1 (external)(Tc)	61.5	52.9	60.3	53.9	75
Plastic enclosure near output connector (external)	61.0	59.6	61.0	57.3	70
Plastic enclosure near plug pin holder	49.6	49.8	47.3	48.4	70
Support	46.0	43.1	45.9	43.1	90
Ambient	40.0	40.0	40.0	40.0	--

IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

Abnormal condition			
temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition			
temperature (K/°C) of part	Abnormal		
	--	264V/50Hz/ Horizontal	Limit
Internal input wire	--	57.8	85
Line choke (L1) winding	--	75.6	175-10=165.0
Line choke (L1) core	--	75.4	175-10=165.0
Transformer (T1) winding 1	--	117.0	175-10=165.0
Transformer (T1) winding 2	--	121.5	175-10=165.0
Transformer (T1) core	--	116.4	175-10=165.0
Line choke (L2) winding	--	93.9	175-10=165.0
Internal output wire	--	63.1	85
Plastic enclosure near plug pin holder (external)	--	72.0	105
Plastic enclosure near T1 (external)(Tc)	--	63.3	105
Plastic enclosure near output connector (external)	--	62.8	105
Plastic enclosure near plug pin holder	--	48.7	105
Support	--	46.7	105
Ambient	--	40.0	--

According to normal heating result, The overload heating performed at 264V/60Hz, label up condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference.....:	**RKPO-EU0503000CD-5**	—
	Load used.....:	Equivalent load or LED module	—
	Mounting position of luminaire.....:	On the black testing board	—
	Ta.....:	40°C	—
	- test : rated voltage.....:	100V-240V	—

IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

	- test : test voltage(normal) ..... :	Input : 1.06U_R=106V; I=0.374A; P=19.3W; 1.06U_R=254.4V; I=0.179A; P=19.5W; Output: U=5.03V; I=3A	—
	- test : test voltage(abnormal) ..... :	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.01A; P=0.09W 2. Over load: 1.1U_R= 264V; I= 0.201A; P=23.0W; Output: U=5.03V; I= 3.56A 0.9U_R= 90V; I= 0.485A; P=21.6W; Output: U=5.01V; I= 3.32A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Label up	Label down	Label up	Label down	
Power cord	51.5	53.6	56.3	53.6	105
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

temperature (K/°C) of part	Abnormal		
	--	264V/50Hz/ Label down	Limit
Power cord	--	56.0	105
Ambient	--	40.0	--

According to normal heating result, The overload heating performed at Label down condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference ..... :	**RKPO-EU1202000CD-5**	—
	Load used ..... :	Equivalent load or LED module	—
	Mounting position of luminaire ..... :	On the black testing board	—
	Ta ..... :	40°C	—
	- test : rated voltage ..... :	100V-240V	—

IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

	- test : test voltage(normal) ..... :	Input : 1.06U_R=106V; I=0.524A; P=28.9W; 1.06U_R=254.4V; I=0.240A; P=28.5W; Output: U=12.11V; I=2.0A;	—
	- test : test voltage(abnormal) ..... :	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.01A; P=0.11W 2. Over load: 1.1U_R= 264V; I= 0.296A, P=36.8W, Output: U=12.11V; I= 2.6A; 0.9U_R= 90V; I= 0.691A, P=34.8W; Output: U=12.11V; I= 2.3A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Label up	Label down	Label up	Label down	
Power cord	59.8	54.8	63.2	56.3	105
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

temperature (K/°C) of part	Abnormal		
	--	264V/50Hz/ Label up	Limit
Power cord	--	64.6	105
Ambient	--	40.0	--

According to normal heating result, The overload heating performed at Label up condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference ..... :	**RKPO-EU2401000CD-5**	—
	Load used ..... :	Equivalent load or LED module	—
	Mounting position of luminaire ..... :	On the black testing board	—
	Ta ..... :	40°C	—
	- test : rated voltage ..... :	100V-240V	—

IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

	- test : test voltage(normal)..... :	Input : 1.06U_R=106V; I=0.523A; P=28.0W; 1.06U_R=254.4V; I=0.237A; P=27.7W; Output: U=24.15V; I=1.0A;	—
	- test : test voltage(abnormal)..... :	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.01A; P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.757A; P=38.4W; Output: U=24.13V; I= 1.29A; 1.1U_R= 264V; I= 0.312A; P=39.0W; Output: U=24.13V; I= 1.43A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Label up	Label down	Label up	Label down	
Power cord	56.4	52.3	53.0	59.7	105
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

temperature (K/°C) of part	Abnormal		
	--	264V/50Hz/ Label down	Limit
Power cord	--	57.8	105
Ambient	--	40.0	--

According to normal heating result, The overload heating performed at Label down condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference..... :	**RKP-EU0503000CD-5**	—
	Load used..... :	Equivalent load or LED module	—
	Mounting position of luminaire..... :	On the black testing board	—
	Ta..... :	40°C	—
	- test : rated voltage..... :	100V-240V	—

IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

	- test : test voltage(normal)..... :	Input : 1.06U_R=106V; I=0.374A; P=19.3W; 1.06U_R=254.4V; I=0.179A; P=19.5W; Output: U=5.03V; I=3A	—
	- test : test voltage(abnormal)..... :	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.01A; P=0.09W 2. Over load: 1.1U_R= 264V; I= 0.201A; P=23.0W; Output: U=5.03V; I= 3.56A 0.9U_R= 90V; I= 0.485A; P=21.6W; Output: U=5.01V; I= 3.32A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Label up	Label down	Label up	Label down	
Power cord	60.2	52.0	61.1	54.0	105
Internal output wire	69.1	69.1	69.1	70.7	80
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

temperature (K/°C) of part	Abnormal		
	--	264V/50Hz/ Label down	Limit
Power cord	--	51.2	105
Internal output wire	--	70.8	85
Ambient	--	40.0	--

According to normal heating result, The overload heating performed at Label down condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference..... :	**RKP-EU1202000CD-5**	—
	Load used..... :	Equivalent load or LED module	—
	Mounting position of luminaire..... :	On the black testing board	—

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Clause	Requirement + Test	Result - Remark	Verdict

	Ta ..... :	40°C	—
	- test : rated voltage ..... :	100V-240V	—
	- test : test voltage(normal) ..... :	Input : 1.06U_R=106V; I=0.524A; P=28.9W; 1.06U_R=254.4V; I=0.240A; P=28.5W; Output: U=12.11V; I=2.0A;	—
	- test : test voltage(abnormal) ..... :	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.01A; P=0.11W 2. Over load: 1.1U_R= 264V; I= 0.296A, P=36.8W, Output: U=12.11V; I= 2.6A; 0.9U_R= 90V; I= 0.691A, P=34.8W; Output: U=12.11V; I= 2.3A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Label up	Label down	Label up	Label down	
Power cord	67.3	54.2	68.1	56.6	105
Internal output wire	76.4	73.7	72.9	71.8	80
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

temperature (K/°C) of part	Abnormal		
	--	264V/50Hz/ Label up	Limit
Power cord	--	51.8	105
Internal output wire	--	65.9	85
Ambient	--	40.0	--

According to normal heating result, The overload heating performed at Label up condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference ..... :	**RKP-EU2401000CD-5**	—

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Clause	Requirement + Test	Result - Remark	Verdict

	Load used.....:	Equivalent load or LED module	—
	Mounting position of luminaire.....:	On the black testing board	—
	Ta.....:	40°C	—
	- test : rated voltage.....:	100V-240V	—
	- test : test voltage(normal).....:	Input : 1.06U_R=106V; I=0.523A; P=28.0W; 1.06U_R=254.4V; I=0.237A; P=27.7W; Output: U=24.15V; I=1.0A;	—
	- test : test voltage(abnormal).....:	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.01A; P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.757A; P=38.4W; Output: U=24.13V; I= 1.29A; 1.1U_R= 264V; I= 0.312A; P=39.0W; Output: U=24.13V; I= 1.43A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Label up	Label down	Label up	Label down	
Power cord	69.2	54.0	69.8	56.1	108
Internal output wire	62.6	59.6	61.6	60.1	80
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

temperature (K/°C) of part	Abnormal		
	--	264V/50Hz/ Label up	Limit
Power cord	--	53.8	105
Internal output wire	--	56.2	85
Ambient	--	40.0	--

IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

According to normal heating result, The overload heating performed at Label up condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference.....:	**RKPO-UK2400500-D2**	—
	Load used.....:	Equivalent load or LED module	—
	Mounting position of luminaire.....:	On the black testing board	—
	Ta.....:	40°C	—
	- test : rated voltage.....:	100V-240V	—
	- test : test voltage(normal).....:	Input : 1.06U_R =254.4 V; I=0.108 A; P=13.6W Output: U=24.0V; I=0.5A; 1.06U_R =106 V; I=0.224A; P=14.0W Output: U=24.0V; I=0.5A	—
	- test : test voltage(abnormal).....:	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.01A; P=0.05W 2. Over load: 0.9U_R= 90V; I= 0.242A; P=14.6W; Output: U=23.05V; I= 0.536A; 1.1U_R= 264V; I= 0.101A; P=14.3W; Output: U=24.25V; I= 0.53A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Horizontal	Vertical	Horizontal	Vertical	
Plastic enclosure near plug pin holder, outside	48.1	49.9	47.5	47.7	75
Plastic enclosure near plug pin holder, inside	49.1	50.6	47.9	48.3	130
Input lead wire	64.6	66.6	53.1	54.4	80
MOV1	61.7	64.3	54.5	55.7	85
C1 body	65.2	66.8	58.0	58.9	105
C2 body	67.9	68.6	62.1	62.6	105
C3 body	65.2	63.5	63.6	62.1	105
CY1 body	65.0	63.1	64.5	62.6	125

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Clause	Requirement + Test		Result - Remark		Verdict

T1 winding	70.2	69.6	69.1	68.4	110
T1 bobbin	69.9	68.8	69.3	68.2	110
C11 body	53.9	53.1	53.4	52.4	105
PCB near T1	70.3	68.1	70.2	68.0	130
Output lead wire	50.6	49.9	50.2	49.3	90
Tc point	48.0	47.6	47.4	46.9	75
Plastic enclosure near T1, outside	48.0	47.6	47.4	46.9	85
Plastic enclosure near T1, inside	51.4	50.4	50.9	49.9	130
Support	41.9	44.2	41.0	41.0	90
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz/ Horizontal	264V/50Hz/ Horizontal	Limit
Internal input wire	69.4	56.5	85
Transformer (T1) winding	72.3	71.9	175-10=165.0
Transformer (T1) core	71.9	71.5	175-10=165.0
Internal output wire	51.0	51.0	85
Plastic enclosure near T1 (external) (Tc)	49.3	49.2	105
Support	46.4	44.7	105
Ambient	40.0	40.0	--

According to normal heating result, The overload heating performed at horizontal condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference.....:	**RKPO-UK1900630-D2**	—
	Load used.....:	Equivalent load or LED module	—
	Mounting position of luminaire.....:	On the black testing board	—
	Ta.....:	40°C	—
	- test : rated voltage.....:	100V-240V	—

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Clause	Requirement + Test	Result - Remark	Verdict

	- test : test voltage(normal)..... :	Input : 1.06U_R =254.4 V; I=0.107 A; P=13.2W Output: U=19.0V; I=0.63A; 1.06U_R =106 V; I=0.222A; P=13.7W Output: U=19.0V; I=0.63A	—
	- test : test voltage(abnormal)..... :	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.017A; P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.226A; P=13.5W; Output: U=18.01V; I= 0.625A; 1.1U_R= 264V; I= 0.099A; P=13.7W; Output: U=18.66V; I= 0.655A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Horizontal	Vertical	Horizontal	Vertical	
Plastic enclosure near plug pin holder, outside	44.9	47.2	44.7	44.9	75
Plastic enclosure near plug pin holder, inside	46.1	48.9	45.4	45.9	130
Input lead wire	60.7	65.0	53.0	55.4	80
MOV1	66.3	71.4	56.7	59.3	85
C1 body	72.9	76.2	62.2	64.4	105
C2 body	77.0	77.7	68.3	68.8	105
C3 body	73.6	72.1	69.7	68.4	105
CY1 body	80.5	78.6	76.2	76.1	125
T1 winding	79.4	78.2	78.8	75.1	110
T1 bobbin	76.7	74.7	69.3	68.1	110
C11 body	76.3	75.4	74.4	72.9	105
PCB near T1	63.6	63.1	62.4	60.7	130
Output lead wire	60.0	59.5	59.3	57.4	90
Tc point	50.2	51.7	49.7	49.7	75
Plastic enclosure near T1, inside	75.1	74.2	74.5	72.4	130

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Clause	Requirement + Test		Result - Remark		Verdict

Plastic enclosure near T1, outside	50.2	51.7	49.7	49.7	85
Support	42.3	44.0	42.8	42.4	90
Ambient	40.0	40.0	40.0	40.0	--
Abnormal condition					
temperature (K/°C) of part	Abnormal				
	90V/60Hz		264V50Hz		Limit
--	--		--		--
Overload condition					
temperature (K/°C) of part	Abnormal				
	90V/60Hz/ Horizontal		264V/50Hz/ Horizontal		Limit
Internal input wire	65.6		57.4		85
Transformer (T1) winding	80.5		84.3		175-10=165.0
Transformer (T1) core	79.8		78.1		175-10=165.0
Internal output wire	59.8		60.9		85
Plastic enclosure near T1 (external) (Tc)	51.7		52.8		105
Support	44.2		43.8		105
Ambient	40.0		40.0		--

According to normal heating result, The overload heating performed at horizontal condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference..... :	**RKPO-UK1101090-D2**	—
	Load used..... :	Equivalent load or LED module	—
	Mounting position of luminaire..... :	On the black testing board	—
	Ta..... :	40°C	—
	- test : rated voltage..... :	100V-240V	—
	- test : test voltage(normal)..... :	Input : 1.06U_R =254.4 V; I=0.111 A; P=14.3W Output: U=11.0V; I=1.09A; 1.06U_R =106 V; I=0.243A; P=15.0W Output: U=11.0V; I=1.09A	—
	- test : test voltage(abnormal)..... :	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.011A;	—

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Clause	Requirement + Test	Result - Remark	Verdict

		P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.293A; P= 18W; Output: U=10.867V; I= 1.289A; 1.1U_R= 264V; I= 0.133A; P=20W; Output: U=11.152V; I= 1.23A	

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Horizontal	Vertical	Horizontal	Vertical	
Plastic enclosure near plug pin holder, outside	46.5	47.2	48.7	46.4	75
Plastic enclosure near plug pin holder, inside	47.2	48.4	48.4	46.5	130
Input lead wire	64.3	58.2	56.5	50.2	80
MOV1	69.6	62.3	59.9	52.7	85
C1 body	79.3	75.4	67.1	61.3	105
C2 body	82.6	82.7	72.5	68.9	105
C3 body	79.9	77.8	74.4	68.8	105
CY1 body	82.0	84.8	79.5	79.1	125
T1 winding	93.2	96.2	88.6	88.3	110
T1 bobbin	84.5	89.1	80.7	83.0	110
PCB near T1	104.3	105.6	103.5	105.3	130
C11 body	73.7	79.4	71.7	74.0	105
Output lead wire	67.9	73.5	66.7	68.9	90
Tc point	53.0	56.5	52.5	52.6	75
Plastic enclosure near T1, inside	86.7	86.4	87.0	84.5	130
Plastic enclosure near T1, outside	53.0	56.5	52.5	52.6	85
Support	43.0	42.2	44.6	41.6	90
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz/ Vertical	264V/50Hz/ Vertical	Limit

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Clause	Requirement + Test	Result - Remark	Verdict

Internal input wire	58.6	56.5	85
Transformer (T1) winding	99.9	90.0	175-10=165.0
Transformer (T1) core	91.4	82.5	175-10=165.0
Internal output wire	76.6	71.3	85
Plastic enclosure near T1 (external) (Tc)	57.1	54.2	105
Support	44.7	44.2	105
Ambient	40.0	40.0	--

According to normal heating result, The overload heating performed at vertical condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference.....:	**RKPO-UK0602000-D2**	—
	Load used.....:	Equivalent load or LED module	—
	Mounting position of luminaire.....:	On the black testing board	—
	Ta.....:	40°C	—
	- test : rated voltage.....:	100V-240V	—
	- test : test voltage(normal).....:	Input : 1.06U_R =254.4 V; I=0.111 A; P=14.0W Output: U=6.0V; I=2.00A; 1.06U_R =106 V; I=0.233A; P=14.6W Output: U=6.0V; I=2.00A	—
	- test : test voltage(abnormal).....:	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.011A; P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.262A; P=16.2W; Output: U=5.46V; I= 2..25A; 1.1U_R= 264V; I= 0.119A; P=16.8W; Output: U=5.79V; I= 2.4A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Horizontal	Vertical	Horizontal	Vertical	

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Clause	Requirement + Test		Result - Remark		Verdict

Plastic enclosure near plug pin holder, outside	46.8	49	44.8	47	75
Plastic enclosure near plug pin holder, inside	46.3	49	44.8	47.1	130
Input lead wire	76.7	76.2	57.9	63.1	80
MOV1	71.0	76.6	59.5	64.1	85
C1 body	77.7	82.2	65.9	70.6	105
C2 body	80.8	82.0	71.4	73.9	105
C3 body	77.8	77.7	72.7	73.5	105
CY1 body	78.3	77.4	74.2	74.2	125
T1 winding	95.1	94.1	89.8	89.9	110
T1 bobbin	86.4	85.8	81.7	82.3	110
PCB near T1	109.9	104.5	102.9	99.7	130
C11 body	79.4	82.8	74.5	73.2	105
Output lead wire	65.8	64.1	62.4	61.9	90
Tc point	53.7	53.3	51.7	52.4	75
Plastic enclosure near T1, inside	59.1	59.0	56.6	57.3	130
Plastic enclosure near T1, outside	53.7	53.3	51.7	52.4	85
Support	41.4	42.6	41.1	42.3	90
Ambient	40	40.0	40.0	40.0	--
Abnormal condition					
temperature (K/°C) of part	Abnormal				
	90V/60Hz		264V50Hz		Limit
--	--		--		--
Overload condition					
temperature (K/°C) of part	Abnormal				
	90V/60Hz/Horizontal		264V/50Hz/ Vertical		Limit
Internal input wire	78.2		67.8		85
Transformer (T1) winding	96.1		97.7		175-10=165.0
Transformer (T1) core	88.4		89.0		175-10=165.0
Internal output wire	65.4		66.8		85
Plastic enclosure near T1 (external) (Tc)	53.7		55.5		105
Support	42.9		44.0		105
Ambient	40.0		40.0		--

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Clause	Requirement + Test	Result - Remark	Verdict

According to normal heating result, The overload heating performed at 264V/60Hz, vertical condition and 90V/60Hz, Horizontal position will be worse.

Due to test result of clause 14, the heating result can be referred to the normal condition.

Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference..... :	**RKPO-EU0602000DP-2**	—
	Load used..... :	Equivalent load or LED module	—
	Mounting position of luminaire..... :	On the black testing board	—
	Ta..... :	40°C	—
	- test : rated voltage..... :	100V-240V	—
	- test : test voltage(normal)..... :	Input : 1.06U_R =254.4 V; I=0.111 A; P=14.0W Output: U=6.0V; I=2.00A; 1.06U_R =106 V; I=0.233A; P=14.6W Output: U=6.0V; I=2.00A	—
	- test : test voltage(abnormal)..... :	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.011A; P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.262A; P=16.2W; Output: U=5.46V; I= 2..25A; 1.1U_R= 264V; I= 0.119A; P=16.8W; Output: U=5.79V; I= 2.4A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Horizontal	Vertical	Horizontal	Vertical	
Plastic enclosure near plug pin holder, outside	46.6	45.0	47.7	47.8	75
Plastic enclosure near plug pin holder, inside	47.9	46.0	49.7	49.2	130
MOV1	80.6	62.1	82.9	66.5	85
C1 body	88.5	69.1	86.8	71.2	105
C2 body	99.8	83.2	95.1	82.9	105
C3 body	91.7	80.8	85.9	79.2	105
CY1 body	90.9	83.4	85.5	81.4	125

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Clause	Requirement + Test			Result - Remark	Verdict

T1 winding	102.5	94.4	96.5	91.4	110
T1 bobbin	100.0	92.0	94.7	89.5	110
PCB near T1	111.6	100.9	106.0	98.8	130
C11 body	88.4	80.3	84.0	79.0	105
Output lead wire	84.1	77.7	79.8	76.2	90
Tc point (near T1)	60.6	57.3	57.8	57.0	75
Plastic enclosure near T1, outside	68.5	63.7	58.5	57.4	85
Plastic enclosure near T1, inside	74.0	69.2	69.6	67.5	130
Support	45.5	43.7	46.4	46.5	90
Ambient	40.0	40.0	40.0	40.0	--
Abnormal condition					
temperature (K/°C) of part	Abnormal				
	90V/60Hz		264V50Hz		Limit
--	--		--		--
Overload condition					
temperature (K/°C) of part	Abnormal				
	90V/60Hz/ Vertical		--		Limit
Transformer (T1) winding	104.0		--		175-10=165.0
Internal output wire	85.7		--		105
Plastic enclosure near T1 (external) (Tc)	68.3		--		105
Support	45.9		--		105
Ambient	40.0		--		--

According to normal heating result, The overload heating performed at vertical condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference..... :	**RKPO-EU1101090DP-2**	—
	Load used..... :	Equivalent load or LED module	—
	Mounting position of luminaire..... :	On the black testing board	—
	Ta ..... :	40°C	—
	- test : rated voltage..... :	100V-240V	—

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Clause	Requirement + Test	Result - Remark	Verdict
	- test : test voltage(normal)..... :	Input : 1.06U_R =254.4 V; I=0.111 A; P=14.3W Output: U=11.0V; I=1.09A; 1.06U_R =106 V; I=0.243A; P=15.0W Output: U=11.0V; I=1.09A	—
	- test : test voltage(abnormal)..... :	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.011A; P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.293A; P= 18W; Output: U=10.867V; I= 1.289A; 1.1U_R= 264V; I= 0.133A; P=20W; Output: U=11.152V; I= 1.23A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Horizontal	Vertical	Horizontal	Vertical	
Plastic enclosure near plug pin holder, outside	44.4	44.7	45.3	44.6	75
Plastic enclosure near plug pin holder, inside	46.5	47.4	47.9	47.4	130
C1 body	90.8	66.8	88.9	68.0	105
C2 body	97.4	76.6	92.6	75.7	105
C3 body	90.1	74.9	85.5	74.0	105
CY1 body	89.9	81.2	85.6	79.2	125
T1 winding	103.1	90.6	96.8	87.2	110
T1 bobbin	96.0	87.6	91.8	85.1	110
PCB near T1	103.5	97.7	100.0	95.2	130
C11 body	81.3	73.5	77.4	71.2	105
Output lead wire	76.7	70.9	73.3	68.8	90
Tc point (near T1)	58.5	55.7	53.3	51.7	75
Plastic enclosure near T1, outside	65.0	61.5	62.0	59.4	85
Plastic enclosure near T1, inside	85.5	77.0	79.0	72.8	130
Support	43.3	43.6	44.2	43.5	90
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

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Clause	Requirement + Test	Result - Remark	Verdict

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz/ Horizontal	--	Limit
Transformer (T1) winding	103.9	--	175-10=165.0
Internal output wire	79.7	--	105
Plastic enclosure near T1 (external) (Tc)	65.8	--	105
Support	45.0	--	105
Ambient	40.0	--	--

According to normal heating result, The overload heating performed at Horizontal condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference.....:	**RKPO-EU1900630DP-2**	—
	Load used.....:	Equivalent load or LED module	—
	Mounting position of luminaire.....:	On the black testing board	—
	Ta.....:	40°C	—
	- test : rated voltage.....:	100V-240V	—
	- test : test voltage(normal).....:	Input : 1.06U_R =254.4 V; I=0.107 A; P=13.2W Output: U=19.0V; I=0.63A; 1.06U_R =106 V; I=0.222A; P=13.7W Output: U=19.0V; I=0.63A	—
	- test : test voltage(abnormal).....:	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.017A; P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.226A; P=13.5W; Output: U=18.01V; I= 0.625A; 1.1U_R= 264V; I= 0.099A; P=13.7W; Output: U=18.66V; I= 0.655A	—

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Clause	Requirement + Test	Result - Remark	Verdict

Normal operation					
temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Horizontal	Vertical	Horizontal	Vertical	
Plastic enclosure near plug pin holder, outside	44.5	45.3	45.7	51.3	75
Plastic enclosure near plug pin holder, inside	45.7	48.3	47.2	51.5	130
C1 body	73.4	65.3	74.0	67.6	105
C2 body	78.4	74.0	78.5	75.4	105
C3 body	73.3	72.9	72.4	73.0	105
CY1 body	75.1	77.2	76.0	78.9	125
T1 winding	80.6	82.2	81.8	84.3	110
T1 bobbin	80.4	82.3	81.8	84.7	110
PCB near T1	91.3	92.7	92.8	95.4	130
C11 body	65.7	66.7	67.3	69.4	105
Output lead wire	64.2	65.0	65.7	67.8	90
Tc point (near T1)	50.1	50.4	52.3	54.1	75
Plastic enclosure near T1, outside	56.2	56.9	58.4	60.4	85
Plastic enclosure near T1, inside	61.2	61.1	60.7	61.8	130
Support	43.4	43.4	44.4	49.4	90
Ambient	40.0	40.0	40.0	40.0	--
Abnormal condition					
temperature (K/°C) of part	Abnormal				
	90V/60Hz		264V50Hz		Limit
--	--		--		--
Overload condition					
temperature (K/°C) of part	Abnormal				
	--		264V/50Hz/ Vertical		Limit
Transformer (T1) winding	--		97.8		175-10=165.0
Internal output wire	--		75.1		105
Plastic enclosure near T1 (external) (Tc)	--		64.1		105
Support	--		44.1		105
Ambient	--		40.0		--

According to normal heating result, The overload heating performed at vertical condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

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Clause	Requirement + Test	Result - Remark	Verdict

	Type reference..... :	**RKPO-EU2400500DP-2**	—
	Load used..... :	Equivalent load or LED module	—
	Mounting position of luminaire..... :	On the black testing board	—
	Ta..... :	40°C	—
	- test : rated voltage..... :	100V-240V	—
	- test : test voltage(normal)..... :	Input : 1.06U_R =254.4 V; I=0.108 A; P=13.6W Output: U=24.0V; I=0.5A; 1.06U_R =106 V; I=0.224A; P=14.0W Output: U=24.0V; I=0.5A	—
	- test : test voltage(abnormal)..... :	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.01A; P=0.05W 2. Over load: 0.9U_R= 90V; I= 0.242A; P=14.6W; Output: U=23.05V; I= 0.536A; 1.1U_R= 264V; I= 0.101A; P=14.3W; Output: U=24.25V; I= 0.53A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Horizontal	Vertical	Horizontal	Vertical	
Plastic enclosure near plug pin holder, outside	46.5	45.9	48.9	47.0	75
Plastic enclosure near plug pin holder, inside	47.2	46.6	49.8	47.7	130
C1 body	87.2	67.4	85.5	67.4	105
C2 body	94.8	77.0	91.1	75.6	105
C3 body	89.1	75.3	84.5	73.6	105
CY1 body	86.3	78.8	82.2	76.3	125
T1 winding	90.6	83.0	86.8	80.4	110
T1 bobbin	82.4	76.4	74.6	69.4	110
PCB near T1	93.1	88.8	90.0	86.9	130
C11 body	72.0	67.0	68.3	64.4	105
Output lead wire	70.4	66.2	67.2	63.9	90

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Clause	Requirement + Test		Result - Remark		Verdict

Tc point (near T1)	68.0	63.3	61.0	58.2	75
Plastic enclosure near T1, outside	61.7	59.0	59.1	56.9	85
Plastic enclosure near T1, inside	83.1	76.0	77.2	71.6	130
Support	44.7	43.5	46.8	45.1	90
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz/ Horizontal	--	Limit
Transformer (T1) winding	93.5	--	175-10=165.0
Internal output wire	72.3	--	105
Plastic enclosure near T1 (external) (Tc)	62.6	--	105
Support	45.2	--	105
Ambient	40.5	--	--

According to normal heating result, The overload heating performed at Horizontal condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference..... :	**RKPO-EU0602000DP-2A**	—
	Load used..... :	Equivalent load or LED module	—
	Mounting position of luminaire..... :	On the black testing board	—
	Ta..... :	40°C	—
	- test : rated voltage..... :	100V-240V	—
	- test : test voltage(normal)..... :	Input : 1.06U_R =254.4 V; I=0.111 A; P=14.0W Output: U=6.0V; I=2.00A; 1.06U_R =106 V; I=0.233A; P=14.6W Output: U=6.0V; I=2.00A	—
	- test : test voltage(abnormal)..... :	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.011A;	—

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		P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.262A; P=16.2W; Output: U=5.46V; I= 2..25A; 1.1U_R= 264V; I= 0.119A; P=16.8W; Output: U=5.79V; I= 2.4A	

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Horizontal	Vertical	Horizontal	Vertical	
Plastic enclosure near plug pin holder, outside	52.8	48.4	51.5	46.3	75
Plastic enclosure near plug pin holder, inside	54.7	49.7	53.0	47.5	130
MOV1	84.7	67.0	81.0	63.0	85
C1 body	90.5	73.2	86.5	68.5	105
C2 body	97.9	85.3	94.6	80.8	105
C3 body	89.9	83.6	89.4	81.0	105
CY1 body	93.0	89.6	93.2	88.1	125
T1 winding	108.7	103.5	109.9	102.6	110
T1 bobbin	104.2	99.3	105.9	98.9	110
PCB near T1	104.0	99.0	105.7	98.3	130
C11 body	90.9	83.5	96.6	86.5	105
Tc point (near T1)	74.5	72.4	75.0	70.4	75
Plastic enclosure near T1, outside	71.7	69.6	72.2	67.6	85
Plastic enclosure near T1, inside	85.5	82.5	83.0	78.8	130
Support	50.5	46.0	49.1	43.9	90
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

temperature (K/°C) of part	Abnormal		
	--	264V/50Hz/ Horizontal	Limit
Transformer (T1) winding	--	112.2	175-10=165.0
Plastic enclosure near T1 (external) (Tc)	--	73.6	105

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Support	--	47.3	105
Ambient	--	40.0	--

According to normal heating result, The overload heating performed at Horizontal condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference..... :	**RKPO-EU1101090DP-2A**	—
	Load used..... :	Equivalent load or LED module	—
	Mounting position of luminaire..... :	On the black testing board	—
	Ta..... :	40°C	—
	- test : rated voltage..... :	100V-240V	—
	- test : test voltage(normal)..... :	Input : 1.06U_R =254.4 V; I=0.111 A; P=14.3W Output: U=11.0V; I=1.09A; 1.06U_R =106 V; I=0.243A; P=15.0W Output: U=11.0V; I=1.09A	—
	- test : test voltage(abnormal)..... :	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.011A; P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.293A; P= 18W; Output: U=10.867V; I= 1.289A; 1.1U_R= 264V; I= 0.133A; P=20W; Output: U=11.152V; I= 1.23A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Horizontal	Vertical	Horizontal	Vertical	
Plastic enclosure near plug pin holder, outside	51.5	47.1	50.2	45.3	75
Plastic enclosure near plug pin holder, inside	53.5	48.3	52.2	46.6	130
MOV1	78.3	62.6	75.0	59.6	85
C1 body	81.7	66.8	78.9	63.6	105
C2 body	87.1	75.5	85.3	72.9	105
C3 body	78.3	72.8	78.7	71.3	105

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Clause	Requirement + Test			Result - Remark	Verdict

CY1 body	79.8	78.0	81.2	77.8	125
T1 winding	89.6	86.7	91.6	87.1	110
T1 bobbin	89.4	86.3	91.1	86.7	110
PCB near T1	90.5	87.0	91.9	86.7	130
C11 body	64.8	62.9	69.4	65.4	105
Tc point (near T1)	62.9	61.9	63.3	60.8	75
Plastic enclosure near T1, outside	59.9	59.0	61.3	58.2	85
Plastic enclosure near T1, inside	69.7	68.2	69.8	66.7	130
Support	49.2	44.8	47.9	43.0	90
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

temperature (K/°C) of part	Abnormal		
	--	264V/50Hz/ Horizontal	Limit
Transformer (T1) winding	--	92.7	175-10=165.0
Plastic enclosure near T1 (external) (Tc)	--	64.6	105
Support	--	46.3	105
Ambient	--	40.0	--

According to normal heating result, The overload heating performed at Horizontal condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference..... :	**RKPO-EU1900630DP-2A**	—
	Load used..... :	Equivalent load or LED module	—
	Mounting position of luminaire..... :	On the black testing board	—
	Ta..... :	40°C	—
	- test : rated voltage..... :	100V-240V	—

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Clause	Requirement + Test	Result - Remark	Verdict

	- test : test voltage(normal)..... :	Input : 1.06U_R =254.4 V; I=0.107 A; P=13.2W Output: U=19.0V; I=0.63A; 1.06U_R =106 V; I=0.222A; P=13.7W Output: U=19.0V; I=0.63A	—
	- test : test voltage(abnormal)..... :	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.017A; P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.226A; P=13.5W; Output: U=18.01V; I= 0.625A; 1.1U_R= 264V; I= 0.099A; P=13.7W; Output: U=18.66V; I= 0.655A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Horizontal	Vertical	Horizontal	Vertical	
Plastic enclosure near plug pin holder, outside	52.1	47.2	49.9	45.3	75
Plastic enclosure near plug pin holder, inside	53.0	47.4	50.1	45.2	130
MOV1	71.1	57.9	69.3	55.6	85
C1 body	75.3	61.8	74.3	60.0	105
C2 body	80.1	69.0	80.1	68.2	105
C3 body	73.6	67.2	73.6	66.2	105
CY1 body	74.5	71.6	75.0	71.6	125
T1 winding	82.3	78.6	83.9	79.9	110
T1 bobbin	79.6	75.9	81.3	77.0	110
PCB near T1	83.2	76.8	83.7	76.6	130
C11 body	60.8	58.8	63.6	60.8	105
Tc point (near T1)	62.3	60.0	63.6	60.7	75
Plastic enclosure near T1, outside	62.5	59.4	60.2	56.6	85
Plastic enclosure near T1, inside	65.2	62.8	67.6	64.4	130
Support	49.8	44.8	47.5	43.0	90
Ambient	40.0	40.0	40.0	40.0	--

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Clause	Requirement + Test	Result - Remark	Verdict

Abnormal condition			
temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition			
temperature (K/°C) of part	Abnormal		
	--	264V/50Hz/ Horizontal	Limit
Transformer (T1) winding	--	80.2	175-10=165.0
Plastic enclosure near T1 (external) (Tc)	--	60.5	105
Support	--	45.6	105
Ambient	--	40.0	--

According to normal heating result, The overload heating performed at Horizontal condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference.....:	**RKPO-EU2400500DP-2A**	—
	Load used.....:	Equivalent load or LED module	—
	Mounting position of luminaire.....:	On the black testing board	—
	Ta.....:	40°C	—
	- test : rated voltage.....:	100V-240V	—
	- test : test voltage(normal).....:	Input : 1.06U_R =254.4 V; I=0.108 A; P=13.6W Output: U=24.0V; I=0.5A; 1.06U_R =106 V; I=0.224A; P=14.0W Output: U=24.0V; I=0.5A	—
	- test : test voltage(abnormal).....:	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.01A; P=0.05W 2. Over load: 0.9U_R= 90V; I= 0.242A; P=14.6W; Output: U=23.05V; I= 0.536A; 1.1U_R= 264V; I= 0.101A; P=14.3W; Output: U=24.25V; I= 0.53A	—
Normal operation			

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Clause	Requirement + Test	Result - Remark	Verdict

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Horizontal	Vertical	Horizontal	Vertical	
Plastic enclosure near plug pin holder, outside	51.7	47.9	49.9	46.3	75
Plastic enclosure near plug pin holder, inside	53.3	48.6	50.9	46.8	130
MOV1	72.3	60.1	70.4	57.7	85
C1 body	74.3	63.2	74.0	61.6	105
C2 body	80.4	72.7	80.6	72.3	105
C3 body	77.0	74.0	76.7	73.3	105
CY1 body	74.5	74.5	74.9	75.1	125
T1 winding	83.1	82.7	83.8	83.8	110
T1 bobbin	78.8	78.4	79.6	79.3	110
PCB near T1	84.9	83.8	84.8	84.2	130
C11 body	59.9	59.4	61.4	60.9	105
Tc point (near T1)	62.8	62.3	62.3	61.6	75
Plastic enclosure near T1, outside	62.0	60.8	60.5	59.2	85
Plastic enclosure near T1, inside	67.8	67.2	67.8	67.1	130
Support	49.4	45.6	47.5	43.9	90
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

temperature (K/°C) of part	Abnormal		
	--	264V/50Hz/ Horizontal	Limit
Transformer (T1) winding	--	85.1	175-10=165.0
Plastic enclosure near T1 (external) (Tc)	--	63.2	105
Support	--	46.3	105
Ambient	--	40.0	--

According to normal heating result, The overload heating performed at Horizontal condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference.....:	**RKPO-EU0602000CD-2**	—
	Load used.....:	Equivalent load or LED module	—

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Clause	Requirement + Test	Result - Remark	Verdict

	Mounting position of luminaire.....:	On the black testing board	—
	Ta.....:	40°C	—
	- test : rated voltage.....:	100V-240V	—
	- test : test voltage(normal).....:	Input : 1.06U_R =254.4 V; I=0.111 A; P=14.0W Output: U=6.0V; I=2.00A; 1.06U_R =106 V; I=0.233A; P=14.6W Output: U=6.0V; I=2.00A	—
	- test : test voltage(abnormal).....:	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.011A; P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.262A; P=16.2W; Output: U=5.46V; I= 2..25A; 1.1U_R= 264V; I= 0.119A; P=16.8W; Output: U=5.79V; I= 2.4A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Label up	Label down	Label up	Label down	
Power cord	61.7	55.3	62.3	55.0	105
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

temperature (K/°C) of part	Abnormal		
	--	264V/50Hz/ Label up	Limit
Power cord	--	59.7	105
Ambient	--	40.0	--

According to normal heating result, The overload heating performed at Label up condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

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Clause	Requirement + Test	Result - Remark	Verdict

	Type reference..... :	**RKPO-EU1101090CD-2**	—
	Load used..... :	Equivalent load or LED module	—
	Mounting position of luminaire..... :	On the black testing board	—
	Ta..... :	40°C	—
	- test : rated voltage..... :	100V-240V	—
	- test : test voltage(normal)..... :	Input : 1.06U_R =254.4 V; I=0.111 A; P=14.3W Output: U=11.0V; I=1.09A; 1.06U_R =106 V; I=0.243A; P=15.0W Output: U=11.0V; I=1.09A	—
	- test : test voltage(abnormal)..... :	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.011A; P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.293A; P= 18W; Output: U=10.867V; I= 1.289A; 1.1U_R= 264V; I= 0.133A; P=20W; Output: U=11.152V; I= 1.23A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Label up	Label down	Label up	Label down	
Power cord	59.4	53.8	60.9	53.6	105
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

temperature (K/°C) of part	Abnormal		
	--	264V/50Hz/ Label down	Limit
Power cord	--	61.9	105
Ambient	--	40.0	--

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Clause	Requirement + Test	Result - Remark	Verdict

According to normal heating result, The overload heating performed at Label down condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference..... :	**RKPO-EU1900630CD-2**	—
	Load used..... :	Equivalent load or LED module	—
	Mounting position of luminaire..... :	On the black testing board	—
	Ta..... :	40°C	—
	- test : rated voltage..... :	100V-240V	—
	- test : test voltage(normal)..... :	Input : 1.06U_R =254.4 V; I=0.107 A; P=13.2W Output: U=19.0V; I=0.63A; 1.06U_R =106 V; I=0.222A; P=13.7W Output: U=19.0V; I=0.63A	—
	- test : test voltage(abnormal)..... :	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.017A; P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.226A; P=13.5W; Output: U=18.01V; I= 0.625A; 1.1U_R= 264V; I= 0.099A; P=13.7W; Output: U=18.66V; I= 0.655A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Label up	Label down	Label up	Label down	
Power cord	59.4	52.3	59.2	52.3	105
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

temperature (K/°C) of part	Abnormal		
	90V/50Hz/ Label up	--	Limit

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Clause	Requirement + Test	Result - Remark	Verdict

Power cord	55.5	--	105
Ambient	40.0	--	--

According to normal heating result, The overload heating performed at Label up condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference..... :	**RKPO-EU2400500CD-2**	—
	Load used..... :	Equivalent load or LED module	—
	Mounting position of luminaire..... :	On the black testing board	—
	Ta..... :	40°C	—
	- test : rated voltage..... :	100V-240V	—
	- test : test voltage(normal)..... :	Input : 1.06U_R =254.4 V; I=0.108 A; P=13.6W Output: U=24.0V; I=0.5A; 1.06U_R =106 V; I=0.224A; P=14.0W Output: U=24.0V; I=0.5A	—
	- test : test voltage(abnormal)..... :	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.01A; P=0.05W 2. Over load: 0.9U_R= 90V; I= 0.242A; P=14.6W; Output: U=23.05V; I= 0.536A; 1.1U_R= 264V; I= 0.101A; P=14.3W; Output: U=24.25V; I= 0.53A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Label up	Label down	Label up	Label down	
Power cord	58.6	53.4	59.3	52.7	105
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

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Clause	Requirement + Test	Result - Remark	Verdict

temperature (K/°C) of part	Abnormal		
	--	264V/50Hz/ Label up	Limit
Power cord	--	57.7	105
Ambient	--	40.0	--

According to normal heating result, The overload heating performed at Label up condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference..... :	**RKP-EU0602000DP-2**	—
	Load used..... :	Equivalent load or LED module	—
	Mounting position of luminaire..... :	On the black testing board	—
	Ta..... :	40°C	—
	- test : rated voltage..... :	100V-240V	—
	- test : test voltage(normal)..... :	Input : 1.06U_R =254.4 V; I=0.111 A; P=14.0W Output: U=6.0V; I=2.00A; 1.06U_R =106 V; I=0.233A; P=14.6W Output: U=6.0V; I=2.00A	—
	- test : test voltage(abnormal)..... :	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.011A; P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.262A; P=16.2W; Output: U=5.46V; I= 2..25A; 1.1U_R= 264V; I= 0.119A; P=16.8W; Output: U=5.79V; I= 2.4A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Horizontal	Vertical	Horizontal	Vertical	
Plastic enclosure near plug pin holder, outside	49.3	47.8	49.9	49.2	75
Plastic enclosure near plug pin holder, inside	51.7	48.6	52.3	50.0	130
MOV1	79.9	61.3	79.9	62.9	85

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Clause	Requirement + Test		Result - Remark		Verdict

C1 body	84.7	66.5	85.1	68.3	105
C2 body	96.0	78.7	96.2	80.4	105
C3 body	92.8	81.7	90.6	80.2	105
CY1 body	93.1	85.3	92.1	85.1	125
T1 winding	102.5	93.3	103.1	94.5	110
T1 bobbin	94.8	86.9	95.1	88.2	110
PCB near T1	111.5	98.0	110.7	99.2	130
C11 body	72.4	66.9	72.8	67.7	105
Output lead wire	80.0	73.2	81.5	75.0	90
Tc point (near T1)	70.1	65.5	75.4	70.7	76
Plastic enclosure near T1, outside	71.6	65.7	70.0	65.3	85
Plastic enclosure near T1, inside	88.0	79.9	84.4	77.6	130
Support	47.6	46.7	49.7	49.2	90
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz/ Horizontal	--	Limit
Transformer (T1) winding	101.8	--	175-10=165.0
Internal output wire	79.5	--	105
Plastic enclosure near T1 (external) (Tc)	74.1	--	105
Support	49.5	--	105
Ambient	40.0	--	--

According to normal heating result, The overload heating performed at Horizontal condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference.....:	**RKP-EU1101090DP-2**	—
	Load used.....:	Equivalent load or LED module	—
	Mounting position of luminaire.....:	On the black testing board	—
	Ta.....:	40°C	—
	- test : rated voltage.....:	100V-240V	—

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Clause	Requirement + Test	Result - Remark	Verdict
	- test : test voltage(normal)..... :	Input : 1.06U_R =254.4 V; I=0.111 A; P=14.3W Output: U=11.0V; I=1.09A; 1.06U_R =106 V; I=0.243A; P=15.0W Output: U=11.0V; I=1.09A	—
	- test : test voltage(abnormal)..... :	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.011A; P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.293A; P= 18W; Output: U=10.867V; I= 1.289A; 1.1U_R= 264V; I= 0.133A; P=20W; Output: U=11.152V; I= 1.23A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Horizontal	Vertical	Horizontal	Vertical	
Plastic enclosure near plug pin holder, outside	47.3	46.5	46.6	46.4	75
Plastic enclosure near plug pin holder, inside	49.4	47.2	49.1	47.4	130
C1 body	81.4	62.9	82.1	63.4	105
C2 body	87.5	71.4	88.8	72.6	105
C3 body	83.5	75.3	82.3	74.1	105
CY1 body	83.9	78.8	81.2	75.8	125
T1 winding	85.8	80.6	86.4	81.2	110
T1 bobbin	88.8	82.4	89.9	83.6	110
PCB near T1	100.3	88.6	99.0	88.1	130
C11 body	69.0	64.3	70.8	65.8	105
Output lead wire	63.2	60.0	63.9	60.8	90
Tc point (near T1)	60.0	57.2	62.6	59.8	76
Plastic enclosure near T1, outside	62.2	59.1	58.6	56.2	85
Plastic enclosure near T1, inside	78.4	76.0	71.9	64.5	130
Support	46.8	45.9	45.1	44.7	90
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
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Overload condition

temperature (K/°C) of part	Abnormal		
	--	264V/50Hz/ Horizontal	Limit
Transformer (T1) winding	--	88.7	175-10=165.0
Internal output wire	--	63.3	105
Plastic enclosure near T1 (external) (Tc)	--	62.0	105
Support	--	44.9	105
Ambient	--	40.0	--

According to normal heating result, The overload heating performed at Horizontal condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference.....:	**RKP-EU1900630DP-2**	—
	Load used.....:	Equivalent load or LED module	—
	Mounting position of luminaire.....:	On the black testing board	—
	Ta.....:	40°C	—
	- test : rated voltage.....:	100V-240V	—
	- test : test voltage(normal).....:	Input : 1.06U_R =254.4 V; I=0.107 A; P=13.2W Output: U=19.0V; I=0.63A; 1.06U_R =106 V; I=0.222A; P=13.7W Output: U=19.0V; I=0.63A	—
	- test : test voltage(abnormal).....:	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.017A; P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.226A; P=13.5W; Output: U=18.01V; I= 0.625A; 1.1U_R= 264V; I= 0.099A; P=13.7W; Output: U=18.66V; I= 0.655A	—

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Clause	Requirement + Test	Result - Remark	Verdict

Normal operation					
temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Horizontal	Vertical	Horizontal	Vertical	
Plastic enclosure near plug pin holder, outside	49.5	48.2	49.2	47.1	75
Plastic enclosure near plug pin holder, inside	50.7	47.9	50.7	47.3	130
C1 body	80.0	61.9	79.5	62.2	105
C2 body	89.3	71.9	88.2	72.2	105
C3 body	87.7	75.2	83.5	72.1	105
CY1 body	85.5	77.8	82.2	76.0	125
T1 winding	91.4	81.9	89.1	81.1	110
T1 bobbin	86.3	77.8	84.2	77.2	110
PCB near T1	84.5	75.9	81.8	75.4	130
C11 body	68.6	63.4	68.2	63.8	105
Output lead wire	69.2	63.8	68.3	64.0	90
Tc point (near T1)	67.5	60.8	71.2	65.0	76
Plastic enclosure near T1, outside	66.7	61.5	65.1	61.6	85
Plastic enclosure near T1, inside	78.8	72.8	79.3	74.2	130
Support	48.2	47.4	47.9	46.3	90
Ambient	40.0	40.0	40.0	40.0	--
Abnormal condition					
temperature (K/°C) of part	Abnormal				
	90V/60Hz		264V50Hz		Limit
--	--		--		--
Overload condition					
temperature (K/°C) of part	Abnormal				
	90V/60Hz/ Horizontal		264V/50Hz/ Vertical		Limit
Transformer (T1) winding	83.0		--		175-10=165.0
Internal output wire	76.9		--		105
Plastic enclosure near T1 (external) (Tc)	65.9		--		105
Support	46.1		--		105
Ambient	40.0		--		--
According to normal heating result, The overload heating performed at Horizontal condition will be worse. Due to test result of clause 14, the heating result can be referred to the normal condition. Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.					

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Clause	Requirement + Test	Result - Remark	Verdict

	Type reference..... :	**RKP-EU2400500DP-2**	—
	Load used..... :	Equivalent load or LED module	—
	Mounting position of luminaire..... :	On the black testing board	—
	Ta..... :	40°C	—
	- test : rated voltage..... :	100V-240V	—
	- test : test voltage(normal)..... :	Input : 1.06U_R =254.4 V; I=0.108 A; P=13.6W Output: U=24.0V; I=0.5A; 1.06U_R =106 V; I=0.224A; P=14.0W Output: U=24.0V; I=0.5A	—
	- test : test voltage(abnormal)..... :	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.01A; P=0.05W 2. Over load: 0.9U_R= 90V; I= 0.242A; P=14.6W; Output: U=23.05V; I= 0.536A; 1.1U_R= 264V; I= 0.101A; P=14.3W; Output: U=24.25V; I= 0.53A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Horizontal	Vertical	Horizontal	Vertical	
Plastic enclosure near plug pin holder, outside	52.0	47.9	53.2	49.2	75
Plastic enclosure near plug pin holder, inside	53.8	49.6	55.6	50.4	130
C1 body	81.0	68.2	81.5	64.1	105
C2 body	85.5	69.3	88.4	71.7	105
C3 body	86.1	73.8	85.2	73.7	105
CY1 body	83.3	75.7	82.2	75.8	125
T1 winding	88.9	80.2	90.2	82.0	110
T1 bobbin	88.9	79.7	90.6	81.7	110
PCB near T1	103.1	88.4	99.7	89.0	130
C11 body	67.0	62.1	68.3	63.7	80
Output lead wire	72.8	66.3	73.3	67.9	90

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Clause	Requirement + Test		Result - Remark		Verdict

Tc point (near T1)	64.0	59.2	64.8	60.9	76
Plastic enclosure near T1, outside	65.8	61.9	67.7	64.4	85
Plastic enclosure near T1, inside	75.1	68.9	75.8	68.6	130
Support	50.0	47.8	51.0	48.0	90
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

temperature (K/°C) of part	Abnormal		
	--	264V/50Hz/ Horizontal	Limit
Transformer (T1) winding	--	91.4	175-10=165.0
Internal output wire	--	74.3	105
Plastic enclosure near T1 (external) (Tc)	--	69.1	105
Support	--	49.0	105
Ambient	--	40.0	--

According to normal heating result, The overload heating performed at Horizontal condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference..... :	**RKPO-UK0401500-D1**	—
	Load used..... :	Equivalent load or LED module	—
	Mounting position of luminaire..... :	On the black testing board	—
	Ta..... :	40°C	—
	- test : rated voltage..... :	100V-240V	—
	- test : test voltage(normal)..... :	Input : 1.06U_R =254.4 V; I=0.068 A; P=8.74W Output: U=4.0V; I=1.50A; 1.06U_R =106 V; I=0.14A; P=9.13W Output: U=4.0V; I=1.50A	—
	- test : test voltage(abnormal)..... :	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.012A;	—

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Clause	Requirement + Test	Result - Remark	Verdict
		P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.185A; P=11.0W; Output: U=3.83V; I= 1.839A; 1.1U_R= 264V; I= 0.081A; P=11.1W; Output: U=4.091V; I= 1.909A	

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Horizontal	Vertical	Horizontal	Vertical	
Plastic enclosure near plug pin holder, outside	43.6	44.4	43.3	42.9	75
Plastic enclosure near plug pin holder, inside	44.6	45.8	44.7	44.1	130
Input lead wire	62.6	56.9	57.1	50.6	80
C5 body	83.5	80.3	77.0	68.9	105
C1 body	84.3	79.8	76.6	68.7	105
C2 body	82.0	79.9	77.9	71.9	105
L2 winding	75.0	69.5	69.9	61.9	120
CY1 body	76.3	78.0	76.0	74.2	125
T1 winding	89.8	91.5	89.9	87.3	110
T1 bobbin	79.8	78.9	79.4	75.2	110
PCB near T1	77.2	78.6	77.8	76.4	130
C11 body	82.2	89.2	85.6	85.3	105
C12 body	64.7	70.0	65.3	68.4	105
L1 winding	71.5	77.2	73.1	76.6	120
Output lead wire	62.8	70.1	64.2	70.9	90
Tc point	68.3	70.1	68.1	66.3	75
Plastic enclosure near T1, inside	74.5	76.9	74.6	73.5	130
Plastic enclosure near T1, outside	68.3	70.1	68.1	66.3	85
Support	42.4	42.0	43.5	42.3	90
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
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IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict

Overload condition			
temperature (K/°C) of part	Abnormal		
	90V/50Hz/ Vertical	264V/50Hz/ Horizontal	Limit
Internal input wire	59.7	57.5	85
Transformer (T1) winding	96.4	94.4	175-10=165.0
Transformer (T1) core	84.4	80.1	175-10=165.0
Internal output wire	73.3	75.4	85
Plastic enclosure near T1 (external) (Tc)	73.8	73.1	105
Support	43.8	43.0	105
Ambient	40.0	40.0	--

According to normal heating result, The overload heating performed at 90V/60Hz, Vertical position and 264V/60Hz, Horizontal condition will be worse.

Due to test result of clause 14, the heating result can be referred to the normal condition.

Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference.....:	**RKPO-UK0900666-D1**	—
	Load used.....:	Equivalent load or LED module	—
	Mounting position of luminaire.....:	On the black testing board	—
	Ta.....:	40°C	—
	- test : rated voltage.....:	100V-240V	—
	- test : test voltage(normal).....:	Input : 1.06U_R =254.4 V; I=0.058 A; P=7.01W Output: U=9.0V; I=0.66A; 1.06U_R =106 V; I=0.114A; P=7.14W Output: U=9.0V; I=0.66A	—
	- test : test voltage(abnormal).....:	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.013A; P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.182A; P=10.7W; Output: U=8.26V; I= 0.985A; 1.1U_R= 264V; I= 0.081A; P=11.9W; Output: U=8.61V; I= 1.095A	—

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Clause	Requirement + Test	Result - Remark	Verdict

Normal operation					
temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Horizontal	Vertical	Horizontal	Vertical	
Plastic enclosure near plug pin holder, outside	44.4	45.4	49.5	49.3	75
Plastic enclosure near plug pin holder, inside	43.9	45.6	49.5	50.4	130
Input lead wire	57.8	59.2	65.9	64.4	80
C5 body	64.6	66.0	76.4	74.4	105
C1 body	65.9	68.3	81.2	80.4	105
C2 body	66.2	68.2	83.6	82.5	105
L2 winding	63.1	64.6	77.3	75.7	120
CY1 body	62.0	58.7	77.0	67.3	125
T1 winding	73.6	71.9	92.1	84.4	110
T1 bobbin	68.5	68.0	84.7	79.6	110
PCB near T1	66.0	62.8	84.6	74.0	130
C11 body	64.1	61.3	75.4	67.7	105
C12 body	55.8	53.0	65.7	57.6	105
L1 winding	56.9	54.4	66.3	59.0	120
Output lead wire	54.9	52.2	63.0	55.9	90
Tc point	56.4	52.7	68.6	57.8	75
Plastic enclosure near T1, inside	62.3	59.4	81.0	70.3	130
Plastic enclosure near T1, outside	56.4	52.7	68.6	57.8	85
Support	41.7	41.2	48.6	41.2	90
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition			
temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
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Overload condition			
temperature (K/°C) of part	Abnormal		
	90V/60Hz/ Horizontal	264V/50Hz/ Horizontal	Limit
Internal input wire	77.0	75.2	85
Transformer (T1) winding	99.5	105.0	175-10=165.0
Transformer (T1) core	92.5	96.6	175-10=165.0
Internal output wire	59.8	59.7	85

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Clause	Requirement + Test	Result - Remark	Verdict

Plastic enclosure near T1 (external) (Tc)	57.6	57.0	105
Support	47.3	44.5	105
Ambient	40.0	40.0	--

According to normal heating result, The overload heating performed at horizontal condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference.....:	**RKPO-UK1900315-D1**	—
	Load used.....:	Equivalent load or LED module	—
	Mounting position of luminaire.....:	On the black testing board	—
	Ta.....:	40°C	—
	- test : rated voltage.....:	100V-240V	—
	- test : test voltage(normal).....:	Input : 1.06U_R =254.4 V; I=0.056 A; P=7.01W Output: U=19.0V; I=0.315A; 1.06U_R =106 V; I=0.116A; P=7.33W Output: U=19.0V; I=0.315A	—
	- test : test voltage(abnormal).....:	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.01A; P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.144; P=8.6W; Output: U=18.63V; I= 0.365A; 1.1U_R= 264V; I= 0.059A; P=8.34W; Output: U=18.66V; I= 0.375A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Horizontal	Vertical	Horizontal	Vertical	
Plastic enclosure near plug pin holder, outside	48.9	50.3	48.5	49.6	75
Plastic enclosure near plug pin holder, inside	50.7	52.6	50.5	51.9	130
Input lead wire	66.5	67.6	58.4	59.5	80
C5 body	67.8	69.5	64.0	65.5	105
C1 body	73.8	76.2	68.4	70.4	105

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Clause	Requirement + Test		Result - Remark		Verdict

C2 body	74.6	69.8	69.2	69.0	105
L2 winding	70.5	73.6	65.8	68.3	120
CY1 body	69.8	69.2	67.6	67.3	125
T1 winding	79.2	80.0	76.1	77.0	110
T1 bobbin	65.7	62.5	59.4	61.2	110
PCB near T1	73.9	71.6	71.0	69.6	130
C11 body	61.5	60.6	60.1	59.6	105
Output lead wire	53.5	51.8	52.2	51.2	90
Tc point	51.9	49.4	50.5	48.8	75
Plastic enclosure near T1, inside	55.5	52.8	53.9	52.1	130
Plastic enclosure near T1, outside	51.9	49.4	50.5	48.8	85
Support	43.8	41.5	46.0	41.3	90
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz/ Vertical	264V/50Hz/ Vertical	Limit
Internal input wire	67.7	59.8	85
Transformer (T1) winding	86.3	83.5	175-10=165.0
Transformer (T1) core	78.2	76.7	175-10=165.0
Internal output wire	53.7	54.2	85
Plastic enclosure near T1 (external) (Tc)	53.6	53.5	105
Support	43.9	45.0	105
Ambient	40.0	40.0	--

According to normal heating result, The overload heating performed at Vertical condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference.....:	**RKPO-UK2400250-D1**	—
	Load used.....:	Equivalent load or LED module	—
	Mounting position of luminaire.....:	On the black testing board	—
	Ta.....:	40°C	—

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Clause	Requirement + Test	Result - Remark	Verdict

	- test : rated voltage.....:	100V-240V	—
	- test : test voltage(normal).....:	Input : 1.06UR =254.4 V; I=0.058 A; P=6.96W Output: U=24.0V; I=0.25A; 1.06UR =106 V; I=0.108A; P=7.22W Output: U=24.0V; I=0.25A	—
	- test : test voltage(abnormal).....:	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.017A; P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.173A; P=10.07W; Output: U=23.256V; I= 0.359A; 1.1U_R= 264V; I= 0.073A; P=10.03W; Output: U=23.781V; I= 0.37A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Horizontal	Vertical	Horizontal	Vertical	
Plastic enclosure near plug pin holder, outside	45.2	45.8	46.6	47.3	75
Plastic enclosure near plug pin holder, inside	45.6	46.3	46.8	47.6	130
Input lead wire	66.0	62.5	58.6	56.7	80
C1 body	73.9	70.6	68.8	65.8	105
C2 body	76.5	73.9	72.8	70.6	105
L2 winding	68.5	63.1	64.0	59.8	120
C5 body	73.9	72.3	69.3	67.0	105
CY1 body	69.3	70.8	68.3	69.4	125
C11	64.8	69.2	64.4	68.3	105
T1 winding	81.8	82.6	80.5	80.8	110
T1 bobbin	77.0	76.0	75.7	75.4	110
PCB near T1	68.0	70.8	67.7	69.7	130
Output lead wire	59.2	62.8	58.8	62.0	90

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Clause	Requirement + Test	Result - Remark	Verdict

Tc point	59.0	60.5	58.1	59.4	75
Plastic enclosure near T1, inside	55.9	54.6	54.4	53.6	130
Plastic enclosure near T1, outside	59.0	60.5	58.1	59.4	85
Support	42.1	43.1	42.4	43.7	90
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz/ Vertical	264V/50Hz/ Vertical	Limit
Internal input wire	73.8	66.5	85
Transformer (T1) winding	95.8	95.8	175-10=165.0
Transformer (T1) core	86.3	86.3	175-10=165.0
Internal output wire	58.4	58.4	85
Plastic enclosure near T1 (external) (Tc)	61.0	61.0	105
Support	44.5	44.5	105
Ambient	40.0	40.0	--

According to normal heating result, The overload heating performed at vertical condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference.....:	**RKPO-UK0401500CD-1**	—
	Load used.....:	Equivalent load or LED module	—
	Mounting position of luminaire.....:	On the black testing board	—
	Ta.....:	40°C	—
	- test : rated voltage.....:	100V-240V	—
	- test : test voltage(normal).....:	Input : 1.06U_R =254.4 V; I=0.068 A; P=8.74W Output: U=4.0V; I=1.50A; 1.06U_R =106 V; I=0.14A; P=9.13W Output: U=4.0V; I=1.50A	—

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Clause	Requirement + Test	Result - Remark	Verdict

	- test : test voltage(abnormal)..... :	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.012A; P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.185A; P=11.0W; Output: U=3.83V; I= 1.839A; 1.1U_R= 264V; I= 0.081A; P=11.1W; Output: U=4.091V; I= 1.909A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Label up	Label down	Label up	Label down	
Power cord	63.9	60.0	62.9	58.7	105
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz/ Label up	--	Limit
Power cord	63.2	--	105
Ambient	40.0	--	--

According to normal heating result, The overload heating performed at Label up condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference..... :	**RKPO-UK0900666CD-1**	—
	Load used..... :	Equivalent load or LED module	—
	Mounting position of luminaire..... :	On the black testing board	—
	Ta..... :	40°C	—
	- test : rated voltage..... :	100V-240V	—

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Clause	Requirement + Test	Result - Remark	Verdict

	- test : test voltage(normal)..... :	Input : 1.06U_R =254.4 V; I=0.058 A; P=7.01W Output: U=9.0V; I=0.66A; 1.06U_R =106 V; I=0.114A; P=7.14W Output: U=9.0V; I=0.66A	—
	- test : test voltage(abnormal)..... :	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.013A; P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.182A; P=10.7W; Output: U=8.26V; I= 0.985A; 1.1U_R= 264V; I= 0.081A; P=11.9W; Output: U=8.61V; I= 1.095A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Label up	Label down	Label up	Label down	
Power cord	58.4	56.0	58.9	56.2	105
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

temperature (K/°C) of part	Abnormal		
	--	264V/50Hz/ Label up	Limit
Power cord	--	56.9	105
Ambient	--	40.0	--

According to normal heating result, The overload heating performed at Label up condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference..... :	**RKPO-UK1900315CD-1**	—
	Load used..... :	Equivalent load or LED module	—
	Mounting position of luminaire..... :	On the black testing board	—

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Clause	Requirement + Test	Result - Remark	Verdict

	Ta ..... :	40°C	—
	- test : rated voltage ..... :	100V-240V	—
	- test : test voltage(normal) ..... :	Input : 1.06U_R =254.4 V; I=0.056 A; P=7.01W Output: U=19.0V; I=0.315A; 1.06U_R =106 V; I=0.116A; P=7.33W Output: U=19.0V; I=0.315A	—
	- test : test voltage(abnormal) ..... :	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.01A; P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.144; P=8.6W; Output: U=18.63V; I= 0.365A; 1.1U_R= 264V; I= 0.059A; P=8.34W; Output: U=18.66V; I= 0.375A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Label up	Label down	Label up	Label down	
Power cord	54.2	50.3	52.4	49.4	105
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz/ Label up	--	Limit
Power cord	50.5	--	105
Ambient	40.0	--	--

According to normal heating result, The overload heating performed at Label up condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference ..... :	**RKPO-UK2400250CD-1**	—
	Load used ..... :	Equivalent load or LED module	—

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Clause	Requirement + Test	Result - Remark	Verdict

	Mounting position of luminaire.....:	On the black testing board	—
	Ta.....:	40°C	—
	- test : rated voltage.....:	100V-240V	—
	- test : test voltage(normal).....:	Input : 1.06UR =254.4 V; I=0.058 A; P=6.96W Output: U=24.0V; I=0.25A; 1.06UR =106 V; I=0.108A; P=7.22W Output: U=24.0V; I=0.25A	—
	- test : test voltage(abnormal).....:	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.017A; P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.173A; P=10.07W; Output: U=23.256V; I= 0.359A; 1.1U_R= 264V; I= 0.073A; P=10.03W; Output: U=23.781V; I= 0.37A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Label up	Label down	Label up	Label down	
Power cord	54.2	50.3	52.4	49.4	105
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz/ Label up	264V/50Hz/ Vertical	Limit
Power cord	57.1	--	105
Ambient	40.0	--	--

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Clause	Requirement + Test	Result - Remark	Verdict

According to normal heating result, The overload heating performed at Label up condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference..... :	**RKP-UK0401500DP-1**	—
	Load used..... :	Equivalent load or LED module	—
	Mounting position of luminaire..... :	On the black testing board	—
	Ta ..... :	40°C	—
	- test : rated voltage..... :	100V-240V	—
	- test : test voltage(normal)..... :	Input : 1.06U_R =254.4 V; I=0.068 A; P=8.74W Output: U=4.0V; I=1.50A; 1.06U_R =106 V; I=0.14A; P=9.13W Output: U=4.0V; I=1.50A	—
	- test : test voltage(abnormal)..... :	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.012A; P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.185A; P=11.0W; Output: U=3.83V; I= 1.839A; 1.1U_R= 264V; I= 0.081A; P=11.1W; Output: U=4.091V; I= 1.909A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Horizontal	Vertical	Horizontal	Vertical	
Plastic enclosure near plug pin holder, outside	48.0	48.1	49.8	49.3	75
Plastic enclosure near plug pin holder, inside	51.5	51.5	53.4	52.9	130
Input lead wire	78.9	73.4	80.5	74.0	80
C5 body	91.7	87.5	94.1	89.1	105
C1 body	86.6	84.5	87.0	84.5	105
C2 body	93.8	95.7	93.4	94.9	105
L2 winding	86.4	84.7	86.0	84.1	120

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Clause	Requirement + Test			Result - Remark	Verdict

CY1 body	93.2	99.5	92.3	98.3	125
T1 winding	102.1	107.2	102.9	108.1	110
T1 bobbin	101.5	106.2	102.0	107.1	110
PCB near T1	106.4	113.0	106.0	113.2	130
C11 body	100.1	105.0	100.8	105.8	110
C12 body	80.2	84.0	79.2	82.8	105
L1 winding	83.4	87.3	83.4	87.0	120
Output lead wire	84.0	88.1	83.3	87.1	90
Tc point	77.1	80.7	70.9	74.2	81
Plastic enclosure near T1, inside	85.3	89.8	82.9	86.7	130
Plastic enclosure near T1, outside	54.4	55.7	57.0	58.2	85
Support	46.7	46.7	48.3	48.0	90
Ambient	40.0	40.0	40.0	40.0	--
Abnormal condition					
temperature (K/°C) of part	Abnormal				
	90V/60Hz		264V50Hz		Limit
--	--		--		--
Overload condition					
temperature (K/°C) of part	Abnormal				
	--		264V/60Hz/ Vertical		Limit
Internal input wire	--		71.3		85
Transformer (T1) winding	--		108.9		175-10=165.0
Internal output wire	--		92.1		105
Plastic enclosure near T1 (external)(Tc)	--		80.0		105
Support	--		46.6		105
Ambient	--		40.0		--

According to normal heating result, The overload heating performed at vertical condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference..... :	**RKP-UK0900666DP-1**	—
	Load used..... :	Equivalent load or LED module	—
	Mounting position of luminaire..... :	On the black testing board	—
	Ta..... :	40°C	—
	- test : rated voltage..... :	100V-240V	—

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Clause	Requirement + Test	Result - Remark	Verdict

	- test : test voltage(normal)..... :	Input : 1.06U_R =254.4 V; I=0.058 A; P=7.01W Output: U=9.0V; I=0.66A; 1.06U_R =106 V; I=0.114A; P=7.14W Output: U=9.0V; I=0.66A	—
	- test : test voltage(abnormal)..... :	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.013A; P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.182A; P=10.7W; Output: U=8.26V; I= 0.985A; 1.1U_R= 264V; I= 0.081A; P=11.9W; Output: U=8.61V; I= 1.095A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Horizontal	Vertical	Horizontal	Vertical	
Plastic enclosure near plug pin holder, outside	44.9	46.5	48.2	47.8	75
Plastic enclosure near plug pin holder, inside	49.2	50.8	52.7	52.5	130
Input lead wire	63.0	60.1	65.1	60.4	80
C5 body	82.6	80.8	83.9	80.5	105
C1 body	76.7	74.2	79.1	74.9	105
C2 body	81.7	82.0	85.0	83.9	105
L2 winding	76.4	73.7	78.9	74.5	120
CY1 body	78.2	82.6	81.6	84.7	125
T1 winding	83.4	86.0	86.0	86.8	110
T1 bobbin	88.6	93.1	90.9	94.1	110
PCB near T1	76.7	80.5	77.9	79.9	130
C11 body	81.2	87.9	82.8	88.3	105
C12 body	65.9	69.8	69.1	71.7	105
L1 winding	72.3	77.2	74.9	78.5	120
Output lead wire	56.7	60.3	59.5	61.7	90

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Clause	Requirement + Test		Result - Remark		Verdict

Tc point	61.3	63.3	59.8	61.6	81
Plastic enclosure near T1, inside	56.5	58.7	60.6	61.5	130
Plastic enclosure near T1, outside	50.9	53.1	54.7	55.6	85
Support	43.7	45.1	46.8	46.5	90
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

temperature (K/°C) of part	Abnormal		
	--	264V/50Hz/ Vertical	Limit
Internal input wire	--	56.3	85
Transformer (T1) winding	--	86.1	175-10=165.0
Internal output wire	--	57.2	105
Plastic enclosure near T1 (external)(Tc)	--	58.2	105
Support	--	43.5	105
Ambient	--	40.0	--

According to normal heating result, The overload heating performed at vertical condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference..... :	**RKP-UK1900315DP-1**	—
	Load used..... :	Equivalent load or LED module	—
	Mounting position of luminaire..... :	On the black testing board	—
	Ta ..... :	40°C	—
	- test : rated voltage..... :	100V-240V	—
	- test : test voltage(normal)..... :	Input : 1.06U_R =254.4 V; I=0.056 A; P=7.01W Output: U=19.0V; I=0.315A; 1.06U_R =106 V; I=0.116A; P=7.33W Output: U=19.0V; I=0.315A	—
	- test : test voltage(abnormal)..... :	1. Double the LED modules or equivalent load (connected in	—

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Clause	Requirement + Test	Result - Remark	Verdict

		parallel) 1.1U_R=264V; I= 0.01A; P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.144; P=8.6W; Output: U=18.63V; I= 0.365A; 1.1U_R= 264V; I= 0.059A; P=8.34W; Output: U=18.66V; I= 0.375A	

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Horizontal	Vertical	Horizontal	Vertical	
Plastic enclosure near plug pin holder, outside	47.4	47.8	48.4	48.9	75
Plastic enclosure near plug pin holder, inside	50.5	49.7	51.6	50.1	130
Input lead wire	67.8	58.0	70.2	60.1	80
C5 body	87.1	74.9	87.7	73.9	105
C1 body	84.1	74.2	88.1	76.2	105
C2 body	84.8	72.7	86.9	73.0	105
L2 winding	76.9	66.9	80.9	68.9	120
CY1 body	78.6	73.5	81.4	75.2	125
T1 winding	87.5	81.9	89.0	82.0	110
T1 bobbin	88.8	83.5	90.7	83.1	110
PCB near T1	81.2	77.3	81.2	76.5	130
C11 body	74.4	71.3	74.9	71.0	105
Output lead wire	64.9	62.7	65.6	62.4	90
Tc point	70.1	66.4	68.1	63.8	81
Plastic enclosure near T1, inside	79.6	74.8	78.7	73.1	130
Plastic enclosure near T1, outside	54.4	51.8	57.9	54.2	85
Support	47.3	47.7	48.4	48.2	90
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

temperature (K/°C) of part	Abnormal		
	--	264V/50Hz/ Horizontal	Limit

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Clause	Requirement + Test	Result - Remark	Verdict

Internal input wire	--	62.3	85
Transformer (T1) winding	--	87.5	175-10=165.0
Internal output wire	--	64.4	105
Plastic enclosure near T1 (external)(Tc)	--	65.7	105
Support	--	48.6	105
Ambient	--	40.0	--

According to normal heating result, The overload heating performed at Horizontal condition will be worse.
Due to test result of clause 14, the heating result can be referred to the normal condition.
Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

	Type reference.....:	**RKP-UK2400250DP-1**	—
	Load used.....:	Equivalent load or LED module	—
	Mounting position of luminaire.....:	On the black testing board	—
	Ta.....:	40°C	—
	- test : rated voltage.....:	100V-240V	—
	- test : test voltage(normal).....:	Input : 1.06UR =254.4 V; I=0.058 A; P=6.96W Output: U=24.0V; I=0.25A; 1.06UR =106 V; I=0.108A; P=7.22W Output: U=24.0V; I=0.25A	—
	- test : test voltage(abnormal).....:	1. Double the LED modules or equivalent load (connected in parallel) 1.1U_R=264V; I= 0.017A; P=0.12W 2. Over load: 0.9U_R= 90V; I= 0.173A; P=10.07W; Output: U=23.256V; I= 0.359A; 1.1U_R= 264V; I= 0.073A; P=10.03W; Output: U=23.781V; I= 0.37A	—

Normal operation

temperature (K/°C) of part	106V/60Hz		254.4V50Hz		Limit
	Horizontal	Vertical	Horizontal	Vertical	

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Clause	Requirement + Test	Result - Remark	Verdict

Plastic enclosure near plug pin holder, outside	46.4	46.5	47.1	47.8	75
Plastic enclosure near plug pin holder, inside	48.6	47.2	49.5	48.6	130
Input lead wire	67.8	58.0	69.4	60.1	80
C5 body	87.2	70.2	88.1	71.8	105
C1 body	84.7	69.5	87.1	72.3	105
C2 body	86.1	72.3	89.5	76.4	105
L2 winding	78.4	65.6	81.7	69.1	120
CY1 body	78.6	70.5	81.2	74.3	125
T1 winding	90.2	74.6	84.6	77.4	110
T1 bobbin	83.1	80.2	92.0	83.0	110
PCB near T1	78.5	71.1	78.6	72.9	130
C11 body	71.2	65.8	71.7	67.7	105
Output lead wire	64.6	60.2	65.0	61.8	90
Tc point	62.7	57.6	62.4	58.7	81
Plastic enclosure near T1, inside	81.2	71.7	78.4	71.2	130
Plastic enclosure near T1, outside	53.6	50.9	54.6	52.2	85
Support	45.0	45.2	46.0	46.4	90
Ambient	40.0	40.0	40.0	40.0	--

Abnormal condition

temperature (K/°C) of part	Abnormal		
	90V/60Hz	264V50Hz	Limit
--	--	--	--

Overload condition

temperature (K/°C) of part	Abnormal		
	--	264V/50Hz/ Horizontal	Limit
Internal input wire	--	70.4	85
Transformer (T1) winding	--	103.6	175-10=165.0
Internal output wire	--	70.7	105
Plastic enclosure near T1 (external)(Tc)	--	67.7	105
Support	--	48.0	105
Ambient	--	40.0	--

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Clause	Requirement + Test	Result - Remark	Verdict

According to normal heating result, The overload heating performed at Horizontal condition will be worse. Due to test result of clause 14, the heating result can be referred to the normal condition. Due to test result of clause 15.3, unit shut down, no output, so the heating result can be referred to abnormal condition.

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Clause	Requirement + Test	Result - Remark	Verdict

	ANNEX: Testing according to IEC 60598-1:2014, EN 60598-1:2015	**P**

4	**CONSTRUCTION**		**P**
4.13	**Mechanical strength**		**P**
4.13.1	Impact tests:		P
	- fragile parts; energy (Nm).....:	--	N/A
	- other parts; energy (Nm).....:	0.5 Nm	P
	1) live parts		P
	2) linings		P
	3) protection		P
	4) covers		P
4.14.6	Strain on socket-outlets	For models RKPO-zzxxxyyyy: Max. 0.05N.m<0.25N.m For model RKPO-zzxxxyyyy-D2: Max.0.061 N.m < 0.25 N.m For models RKPO-zzxxxyyyy-D1: Max.0.054 N.m < 0.25 N.m For models RKP-UKxxxyyyyDP-5: Max. 0.05N.m<0.25N.m For models RKPO-zzxxxyyyyDP-2: Max. 0.03 N.m < 0.25 N.m For model RKPO-zzxxxyyyyDP-2A: Max.0.05 N.m < 0.25 N.m For models RKP-zzxxxyyyyDP-2: Max. 0.04N.m<0.25N.m For models RKP-zzxxxyyyyDP-1: Max.0.03 N.m < 0.25 N.m	P

5	**EXTERNAL AND INTERNAL WIRING**	—
5.2	Supply connection and external wiring	—

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Clause	Requirement + Test	Result - Remark	Verdict
5.2.1	Means of connection.....:	Direct plug-in type for models RKPO-zzxxxyyyy, RKP-UKxxxyyyyDP-5, RKPO-zzxxxyyyy-D2, RKPO-zzxxxyyyyDP-2, RKPO-EUxxxyyyyDP-2A, RKP-zzxxxyyyyDP-2, RKPO-zzxxxyyyy-D1 and RKP-zzxxxyyyyDP-1. Desk top type with non-detachable power cord for models RKPO-zzxxxyyyyCD-5, RKP-zzxxxyyyyCD-5, RKPO-zzxxxyyyyCD-2, RKPO-zzxxxyyyyCD-1.	P
	Outdoor luminaire has not PVC insulated external wiring if not class III or SELV ≤ 25 V a.c./60 V d.c. or protected from outdoor environment	For models RKPO-zzxxxyyyyCD-5, RKPO-zzxxxyyyyCD-2 and RKPO-zzxxxyyyyCD-1 only, see Annex 1 for details.	P
	Connecting leads (EN)		N/A
	- without a means for connection to the supply		N/A
	- terminal block specified		N/A
	- relevant information provided		N/A
	- compliance with 4.6, 4.7.1, 4.7.2, 4.10.1, 11.2, 12 and 13.2 of Part 1		N/A
5.2.2	Type of cable.....:	Type Z for output cord (for models RKP-UKxxxyyyyDP-5, RKP-zzxxxyyyyCD-5, RKP-zzxxxyyyyDP-2, RKP-zzxxxyyyyDP-1); Type Z for input power cord (for models RKPO-zzxxxyyyyCD-5, RKP-zzxxxyyyyCD-5, RKPO-zzxxxyyyyCD-2, RKPO-zzxxxyyyyCD-1)	P
	Nominal cross-sectional area (mm²).....:	See Annex 1 for details.	P
	Cables equal to IEC 60227 or IEC 60245	See Annex 1 for details.	P
	Cables equal to EN 50525 (EN)	See Annex 1 for details.	P
	Replace table 5.1 – Supply cord (EN)	See Annex 1 for details.	P
5.2.3	Type of attachment, X, Y or Z		N/A
5.2.5	Type Z not connected to screws		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.2.6	Cable entries:		—
	- suitable for introduction		P
	- adequate degree of protection		P
5.2.7	Cable entries through rigid material have rounded edges		P
5.2.8	Insulating bushings:		—
	- suitably fixed		P
	- material in bushings		P
	- material not likely to deteriorate		P
	- tubes or guards made of insulating material		P
5.2.9	Locking of screwed bushings	No such bushings.	N/A
5.2.10	Cord anchorage:		—
	- covering protected from abrasion		P
	- clear how to be effective		P
	- no mechanical or thermal stress		P
	- no tying of cables into knots etc.		P
	- insulating material or lining		P
5.2.10.1	Cord anchorage for type X attachment:		—
	a) at least one part fixed		N/A
	b) types of cable		N/A
	c) no damaging of the cable		N/A
	d) whole cable can be mounted		N/A
	e) no touching of clamping screws		N/A
	f) metal screw not directly on cable		N/A
	g) replacement without special tool		N/A
	Glands not used as anchorage		N/A
	Labyrinth type anchorages		N/A
5.2.10.2	Adequate cord anchorage for type Y and type Z attachment	See below	P
5.2.10.3	Tests:		N/A
	- impossible to push cable; unsafe	Compliance checked.	P
	- pull test: 25 times; pull (N).....:	Max. 60N for non-detachable output cable. Max. 60N for non-detachable input power cord.	P

IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict
	- torque test: torque (Nm).....:	Max. 0.15Nm for non-detachable output cable. Max. 0.25Nm for non-detachable input power cord.	P
	- displacement ≤ 2 mm	0mm for non-detachable output cable. 0.2mm for non-detachable input power cord	P
	- no movement of conductors	Compliance checked.	P
	- no damage of cable or cord	Compliance checked.	P
5.2.11	External wiring passing into luminaire		N/A
5.2.12	Looping-in terminals		N/A
5.2.13	Wire ends not tinned		N/A
	Wire ends tinned: no cold flow		N/A
5.2.14	Mains plug same protection		P
	Class III luminaire plug		N/A
5.2.16	Appliance inlets (IEC 60320)		N/A
	Appliance couplers of class II type		N/A
5.2.17	No standardized interconnecting cables properly assembled		N/A
5.2.18	Used plug in accordance with		P
	- IEC 60083		N/A
	- other standard	See Annex 1.	P

8	**PROTECTION AGAINST ELECTRIC SHOCK**		**P**
8.2.1	Live parts not accessible		P
	Basic insulated parts not used on the outer surface without appropriate protection		P
	Basic insulated parts not accessible with standard test finger on portable, settable and adjustable luminaires		P
	Basic insulated parts not accessible with Ø 50 mm probe from outside, other types of luminaires		N/A
	Lamp and starterholders in portable and adjustable luminaires comply with double or reinforced insulation requirements		N/A
	Basic insulation only accessible under lamp or starter replacement		N/A

IEC 61347-2-13			
Clause	Requirement + Test	Result - Remark	Verdict
	Protection in any position		P
	Double-ended tungsten filament lamp		N/A
	Insulation lacquer not reliable		P
	Double-ended high pressure discharge lamp		N/A
	Relevant warning according to 3.2.18 fitted to the luminaire		N/A
8.2.2	Portable luminaire adjusted in most unfavourable position		P
8.2.3.a	Class II luminaire:		P
	- basic insulated metal parts not accessible during starter or lamp replacement		N/A
	- basic insulation not accessible other than during starter or lamp replacement		P
	- glass protective shields not used as supplementary insulation	No such part	N/A
8.2.3.b	BC lampholder of metal in class I luminaires shall be earthed		N/A
8.2.3.c	SELV circuits with exposed current carrying parts:		N/A
	Ordinary luminaire:		N/A
	- touch current .....:		N/A
	- no-load voltage .....:		N/A
	Other than ordinary luminaire:		N/A
	- nominal voltage .....:	---	N/A
8.2.4	Portable luminaire have protection independent of supporting surface		P
8.2.5	Compliance with the standard test finger or relevant probe		P
8.2.6	Covers reliably secured		P
8.2.7	Discharging of capacitors ≥ 0,5 µF		N/A
	Portable plug connected luminaire with capacitor		N/A
	Other plug connected luminaire with capacitor		N/A
	Discharge device on or within capacitor		N/A
	Discharge device mounted separately		N/A

9	**RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE**		**P**
9.2.0	Tests for ingress of dust, solid objects and moisture:		P
	- classification according to IP	See Table A of page 13.	P

IEC 60529:1989+A1:1999+A2:2013			
Clause	Requirement – Test	Result – Remark	Verdict
5	Degrees of protection against access to hazardous parts and against solid foreign objects indicated by the first characteristic numeral		P
5.1	Protection against access to hazardous parts		P
	First characteristic numeral:	4 for models RKPO-EUxxxyyyy, RKPO-EUxxxyyyy-D2, RKPO-EUxxxyyyy-DP-2, RKPO-EUxxxyyyy-DP-2A, RKPO-EUxxxyyyy-D1; 6 for models RKPO-zzxxxyyyyCD-5, RKPO-zzxxxyyyyCD-2, RKPO-zzxxxyyyyCD-1	P
	Test conditions according to sub-clause 12.2		P
	Compliance checked		P
5.2	Protection against solid foreign objects		P
	First characteristic numeral:	4 for models RKPO-EUxxxyyyy, RKPO-EUxxxyyyy-D2, RKPO-EUxxxyyyy-DP-2, RKPO-EUxxxyyyy-DP-2A, RKPO-EUxxxyyyy-D1; 6 for models RKPO-zzxxxyyyyCD-5, RKPO-zzxxxyyyyCD-2, RKPO-zzxxxyyyyCD-1	P
	Test conditions according to sub-clause 13.2 or 13.4 or 13.5		P
	Compliance checked		P
6	Degrees of protection against ingress of water indicated by the second characteristic numeral		P
	Second characteristic numeral :	4 for models RKPO-EUxxxyyyy, RKPO-EUxxxyyyy-D2, RKPO-EUxxxyyyy-DP-2, RKPO-EUxxxyyyy-DP-2A, RKPO-EUxxxyyyy-D1; 8 for models RKPO-zzxxxyyyyCD-5, RKPO-zzxxxyyyyCD-2, RKPO-zzxxxyyyyCD-1	P
	Test conditions according to sub-clause 14.2.1 to 14.2.9 as applicable	Details see clause 14.2.4	P
	Compliance checked	The water did not enter the inside of the equipment and Hi-pot test after the test is passed. No harmful effects.	P
7	Degrees of protection against access to hazardous parts indicated by the additional letter		N/A
	Additional letter :	No Additional Protection Letter	N/A

IEC 60529:1989+A1:1999+A2:2013			
Clause	Requirement – Test	Result – Remark	Verdict
	Test conditions according to sub-clause 15.2	No Additional Protection Letter	N/A
	Compliance checked	No Additional Protection Letter	N/A
8	Supplementary letters		N/A
	Additional supplementary letter :	No Additional Protection Letter	N/A
	Test conditions according to sub-clause 15.2	No Additional Protection Letter	N/A
	Compliance checked	No Additional Protection Letter	N/A
9	IP code designations	IP44 for models RKPO-EUxxxyyyy, RKPO-EUxxxyyyy-D2, RKPO-EUxxxyyyy-DP-2, RKPO-EUxxxyyyy-DP-2A, RKPO-EUxxxyyyy-D1; IP68 for models RKPO-zzxxxyyyyCD-5, RKPO-zzxxxyyyyCD-2, RKPO-zzxxxyyyyCD-1	P
10	Marking		P
	Specified in relevant product standards	See copy of marking plate.	P
	Such standard also specify the method of marking which is to be used when		N/A
	-one part of an enclosure has a different degree of protection to that of another part of the same enclosure		N/A
	-the mounting position has an influence on the degree of protection		N/A
	-the maximum immersion depth and time are indicated	1.2 meter for models RKPO-zzxxxyyyyCD-5, RKPO-zzxxxyyyyCD-2, RKPO-zzxxxyyyyCD-1	P
11	General requirements for tests		P
11.1	Atmospheric conditions for water or dust tests		P
	-temperature -relative humidity	23°C 52%	P
	-air pressure	860mbar to 1060mbar	P
11.2	Test samples		
	-number of samples tested	1 sample	P
	-conditions for mounting, assembling and positioning of the samples	The sample was assembled as normal use.	P
	-pre-conditioning, if any	None	N/A
	-tested energized or not	Not energized	P
	-tested in motion or not	None	N/A

IEC 60529:1989+A1:1999+A2:2013			
Clause	Requirement – Test	Result – Remark	Verdict
	The manufacturer's instructions shall apply in the absence of such specifications	Enclosure will meet the requirements of IP44 for models RKPO-EUxxxyyyy, RKPO-EUxxxyyyy-D2, RKPO-EUxxxyyyy-DP-2, RKPO-EUxxxyyyy-DP-2A, RKPO-EUxxxyyyy-D1; Enclosure will meet the requirements of IP68 for models RKPO-zzxxxyyyyCD-5, RKPO-zzxxxyyyyCD-2, RKPO-zzxxxyyyyCD-1.	P
11.3	Application of test requirements and interpretation of test results		N/A
	-responsibility of the relevant technical committee		N/A
	-in the absence of such specification the requirement of this standard shall apply		P
11.4	Combination of test conditions for the first characteristic numeral		P
	First characteristic numeral	4 for models RKPO-EUxxxyyyy, RKPO-EUxxxyyyy-D2, RKPO-EUxxxyyyy-DP-2, RKPO-EUxxxyyyy-DP-2A, RKPO-EUxxxyyyy-D1; 6 for models RKPO-zzxxxyyyyCD-5, RKPO-zzxxxyyyyCD-2, RKPO-zzxxxyyyyCD-1	P
11.5	Empty enclosures		N/A
	Detailed requirements shall be indicated by the enclosure manufacturer in his instructions for the arrangement and spacing of hazardous parts or parts which might be affected by the penetration of foreign objects or water		N/A
	The manufacturer of the final assembly shall ensure that after the electrical equipment is enclosed the enclosure meets the declared degree of protection of the final product		N/A
12	Tests for protection against access to hazardous parts indicated by the first characteristic numeral		P
12.1	Access probes according to Table VI are used		P
12.2	Test conditions as specified		P
12.3	Acceptance conditions	See below clause 12.3.1	P
	Adequate clearance is kept between access probe and hazardous parts		P
12.3.1	For low-voltage equipment	The probe can not touch hazardous live parts	P
	The access probe shall not touch hazardous live parts		P
12.3.2	For high-voltage equipment	No such equipment	N/A

IEC 60529:1989+A1:1999+A2:2013			
Clause	Requirement – Test	Result – Remark	Verdict
	The equipment shall be capable of withstanding the dielectric tests as specified in the relevant product standard applicable to the equipment	None	N/A
	Where an enclosure includes sections at different voltage levels the appropriate acceptance conditions for adequate clearance shall be applied for section	None	N/A
12.3.3	For equipment with hazardous mechanical parts	None	N/A
	The access probe shall not touch hazardous mechanical parts	None	N/A

13	Tests for protection against solid foreign objects indicated by the first characteristic numeral		P
13.1	Test means and the main test conditions according to table VII are used	Dust chamber	P
13.2	Test conditions for first characteristic numerals 1,2,3,4	First numerals: 4 for models RKPO-EUxxxyyyy, RKPO-EUxxxyyyy-D2, RKPO-EUxxxyyyy-DP-2, RKPO-EUxxxyyyy-DP-2A, RKPO-EUxxxyyyy-D1	P
	Object probe is pushed against any openings of the enclosure with the force specified in table VII		P
13.3	Acceptance conditions for first characteristic numerals 1,2,3,4		P
	The protection is satisfactory if the full diameter of the probe does not pass through any opening		P
13.4	Dust test for first characteristic numerals 5& 6	First numerals: 6 for models RKPO-zzxxxyyyyCD-5, RKPO-zzxxxyyyyCD-2, RKPO-zzxxxyyyyCD-1	P
	Tests are conducted as specified and classified according to its category 1 or 2		P
	If it is impractical to test the complete enclosure in the test chamber, one of the following procedures shall be applied:		P
	-testing of individually enclosed sections of the enclosure		P
	-testing of representative parts of the enclosure , comprising components such as doors, ventilation openings, joints, shaft seals, etc., in position during test		P
	-testing of a smaller enclosure having the same full-scale design details		P
13.5	Special conditions for first characteristic numeral 5		N/A
13.5.1	Test conditions as specified		N/A

IEC 60529:1989+A1:1999+A2:2013			
Clause	Requirement – Test	Result – Remark	Verdict
13.5.2	Acceptance conditions		N/A
	The protection is satisfactory if talcum powder has not accumulated in a quantity or location such that, as with any other kind of dust, it could interfere with the correct operation of the equipment or impair safety		N/A
	No dust shall deposit where it could lead to tracking along the creepage distances		N/A
13.6	Special conditions for first characteristic numeral 6	First numerals: 6 for models RKPO-zzxxxyyyyCD-5, RKPO-zzxxxyyyyCD-2, RKPO-zzxxxyyyyCD-1	P
13.6.1	Test conditions as specified		P
13.6.2	Acceptance conditions		P
	The protection is satisfactory if no deposit of dust is observable inside the enclosure at the end of the test		P
14	Tests for protection against water indicated by the second characteristic numeral		P
14.1, 14.2	Test means and test conditions are performed according to table VIII	IP44 for models RKPO-EUxxxyyyy, RKPO-EUxxxyyyy-D2, RKPO-EUxxxyyyy-DP-2, RKPO-EUxxxyyyy-DP-2A, RKPO-EUxxxyyyy-D1; IP68 for models RKPO-zzxxxyyyyCD-5, RKPO-zzxxxyyyyCD-2, RKPO-zzxxxyyyyCD-1	P
14.2.1	Test for second characteristic numeral 1 with drip box	None	N/A
14.2.2	Test for second characteristic numeral 1 with drip box	None	N/A
14.2.3	Test for second characteristic numeral 3 with oscillating tube or spray nozzle	None	N/A
14.2.4	Test for second characteristic numeral 4 with oscillating tube or spray nozzle	4 for models RKPO-EUxxxyyyy, RKPO-EUxxxyyyy-D2, RKPO-EUxxxyyyy-DP-2, RKPO-EUxxxyyyy-DP-2A, RKPO-EUxxxyyyy-D1	P
14.2.5	Test for second characteristic numeral 5 with the 6.3mm nozzle	None	N/A
14.2.6	Test for second characteristic numeral 6 with the 12.5mm nozzle	None	N/A
14.2.7	Test for second characteristic numeral 7: Temporary immersion between 0.15m and 1m	None	N/A

IEC 60529:1989+A1:1999+A2:2013			
Clause	Requirement – Test	Result – Remark	Verdict
14.2.8	Test for second characteristic numeral 8: Continuous immersion subject to agreement	8 for models RKPO-zzxxxyyyyCD-5, RKPO-zzxxxyyyyCD-2, RKPO-zzxxxyyyyCD-1	P
14.2.9	Test for second characteristic numeral 9: High pressure and temperature water jetting	None	N/A
14.3	Acceptance conditions		P
	It is the responsibility of the relevant technical committee to specify the amount of water which may be allowed to enter the enclosure and the details of a dielectric strength test, if any	The water did not enter the inside of the equipment and Hi-pot test after the test is passed. No harmful effects.	P
	In general, if any water has entered, it shall not		P
	-be sufficient to interfere with the correct operation of the equipment or impair safety		P
	-deposit on insulation parts where it could lead to tracking along the creepage distances		P
	-reach live parts or wingdings not designed to operate when wet		P
	-accumulate near the cable end or enter the cable if any		P
	For enclosure with drain-holes, it should be proved by inspection that any water which enters does not accumulate and that it drains away without doing any harm to the equipment	No drain-holes used.	N/A
	For enclosures without drain-holes, the relevant product standard shall specify the acceptance conditions if water can accumulate to reach live parts	No water entered at all.	P

15	Test for protection against access to hazardous parts indicated by the additional letter		N/A
15.1	Access probes to hazardous parts according to table VI	No additional letter	N/A
15.2	Test conditions as specified	No additional letter	N/A
15.3	Acceptance conditions	No additional letter	N/A
	The protection is satisfactory if adequate clearance is kept between the access probe and hazardous parts	No additional letter	N/A

Partially of BS 1363-1: part 1: 1995 + A4: 2012			
Clause	Requirement – Test	Result – Remark	Verdict
12	Construction of Plugs *For models: RKPO-UKxxxyyyy, RKPO-UKxxxyyyy-D2, RKPO-UKxxxyyyy-D1*		P
12.1	The disposition of the pins shall be shown as figure 4.	The dispositions of the pins were shown as specified.	P
12.2	Pin and sleeve dimensions, body outline were checked according to figure 4 of BS1363: part 1.	The outline of the plug did not exceed the specified dimensions at a distance of 6.5mm from the engagement surface. (limit: >6.35mm) The measured dimensions of item shown in fig. 4 were found within the specified limits.	P
	The plug portion should enter the gauge fully with a force less than 10N was applied to the centre of the sample at right angle.	Sample was entered into the gauge completely.	P
12.3	No part of a line or neutral pin shall be less than 9,5mm from the periphery of the plug measured along the engagement surface.	10.15mm	P
12.9	Plug pins were constructed of brass	Complied.	P
12.9.1	Exposed surface of plug pins were smooth and free from burrs or sharp edges and other irregularities, which could cause damage or excessive wear to sockets or shutters.	Complied.	P
12.9.4	The adaptor plug pins were tested as specified in the standard.	Complied. After being subjected to a force of 1100N for L, N pin, 400N for ISOD pin, the pin portion could fit the relevant gauge.	P
12.9.6	Each pin of the adaptor was subjected to a torque of 1Nm for 60s as specified in the standard.	Complied. After the test, the pin portion could fit the relevant gauge.	P
12.11	The adaptors were tested as specified in the standard. After being placed in an oven at 70°C for 1 hour, each pin of the samples was subjected for 60 sec. to a pull of 100N in the oven.	Complied. After the above test, no plug pin was detached and the plug pins could fit the relevant gauge.	P
12.12	The degree of flexibility of mounting of the plug pins was checked according to 12.12.1	Measured value: Max. 1° 21' (test on each sources of enclosure, max. value measured) (limit: Max. 3° 30').	P
12.16	Line and neutral plug pin shall be fitted with insulating sleeves. The dimensions of the pin and sleeve shall fall within the specific limit.	Complied. Both line and neutral pins were fitted with insulating sleeves.	P
12.17.1	Plug pin sleeve shall be compliance with 12.17.2 to 12.17.4	Complied.	P

Partially of BS 1363-1: part 1: 1995 + A4: 2012			
Clause	Requirement – Test	Result – Remark	Verdict
12.17.2	Electric strength test applied between the metal part of plug pin and the sleeve (1250±30V)	Complied. No breakdown or flashover occurs.	P
12.17.3	Abrasion test for plug pin sleeve The plug pin sleeves were subjected to 20000 movements of abrasion as specified in the standard.	Complied. After the test, the sleeves showed no damage that impaired further use and could satisfy the electric strength test in 12.17. 2	P
12.17.4	The plug pins with sleeves were placed in a heating cabinet at 200°C and tested according to the standard for 120min. Arrange the test as Figure 10 of BS 1363-1.	After the test, the thickness of sleeves of plug pins (Line and neutral pins) remaining at the impression point reduced by max. 13.5% less than 50%.	P

Additional requirement for the solid insulated shutter opening device (ISOD) according to Clause 12 of BS 1363: part 1: 1995 + A4: 2012			
12.2	Plug fitted with an ISOD shall comply with all the dimensions specified in Fig. 4a with exception of the width of the ISOD, which should be 4,05mm max. and 3,90mm min. and its height which should be 8,05mm max. and 7,75mm min.	See measured dimensions in Table 3	P
12.9.4.3	Solid insulated opening device were tested as specified in the standard.	After being subjected to a forced of 400N, the pin could fit the relevant gauge.	P
12.9.5.2	Plugs with ISOD shall not cause excessive wear to socket contacts or shutters of sockets-outlets The test use a separate sample of plug with ISOD for each type of socket-outlet, with each sample being inserted into and withdrawn from the socket-outlet at a rate of 6 insertions and 6 withdrawals per minute, the speed of travel of the plug being approximately 150mm/s	After 5000 insertions and withdrawals completed, socket outlets show no damage that would impair further use. Plugs show no damage and suit for the dimensional requirements according to clause 12.2. The shutters of the socket-outlets operate satisfactorily and socket contacts safety shielded.	P
22.2	**Resistance to heat**		P
	Ball pressure test according to BS EN 60695-10-2:2003 on parts of insulation material necessary for the function or supporting parts of the plug.	Test performed on plug portion (including ISOD) for 125°C ball pressure test at the material of plug portion which maintains live part in position. Measured after 1 hour. max. 0.63mm measured after 1 hour. Limit: 2mm	P

Partially of BS 1363-1: part 1: 1995 + A4: 2012			
Clause	Requirement – Test	Result – Remark	Verdict
23	**Resistance of insulating material to abnormal heat and fire**		P
	Insulating material not unduly affected by abnormal heat and by fire	Glow wire test performed on enclosure with: 650°C. All enclosure material have been considered.	P
	Insulating material not unduly affected by abnormal heat and by fire	Glow wire test performed on plug portion (including ISOD) with: 750°C. All enclosure material have been considered.	P

Plug portion dimensions

Linear Dimensions (mm)		Measurement		Limit	
*A		24.85		25.370 max.	
*B		33.11		34.6 max.	
*C		Fit the testing gauge		15 min.	
D		10.15		9.5 min.	
*E	L -> E	11.13		11.05 - 11.18	
	N -> E	11.14			
*F	L -> E	22.34		22.10 - 22.36	
	N -> E	22.35			
G1		6.32		6.22 - 6.48	
G2		6.31		6.22 - 6.48	
H		4.03		3.90 - 4.05	
*I		22.61		22.23 - 23.23	
J		1.40		1.35 - 1.85	
K		7.97		7.80 - 8.05	7.75 - 8.05 For ISOD
L	line	9.02		9.5 max.	
	neutral	9.01			
M	line	8.90		9.2 max.	
	neutral	8.91			
N (sleeve)	line	4.01		3.90 - 4.05	
	neutral	4.02			
O	line	17.92		17.20 - 18.20	
	neutral	17.93			
P	Line	1.78		1.35 - 1.85	
	neutral	1.76			
	earth	1.41			
Q (metal)	line	3.99		3.90 - 4.05	
	neutral	3.99			

BS 1363-1 a (Plug portion acceptance test)

Partially of BS 1363-1: part 1: 1995 + A4: 2012			
Clause	Requirement – Test	Result – Remark	Verdict

	earth	4.02			
R	Line	1.39		1.2 - 2.0	
	neutral	1.41			
	earth	1.85			
S	line	1.52		1.35 - 1.85	
	neutral	1.73			

*Remark: all these dimensions were checked by the relevant gauge (based on BS1363: Part 1:1995 Figure 5)

Angular Dimensions (°)		Measurement		Limits	
θ1		61.0°		58° - 62°	
θ2	line	65.0°		60° - 80°	
	neutral	64.0°			
	earth	66.0°			
θ3	line	59°		58° - 62°	
	neutral	60°			

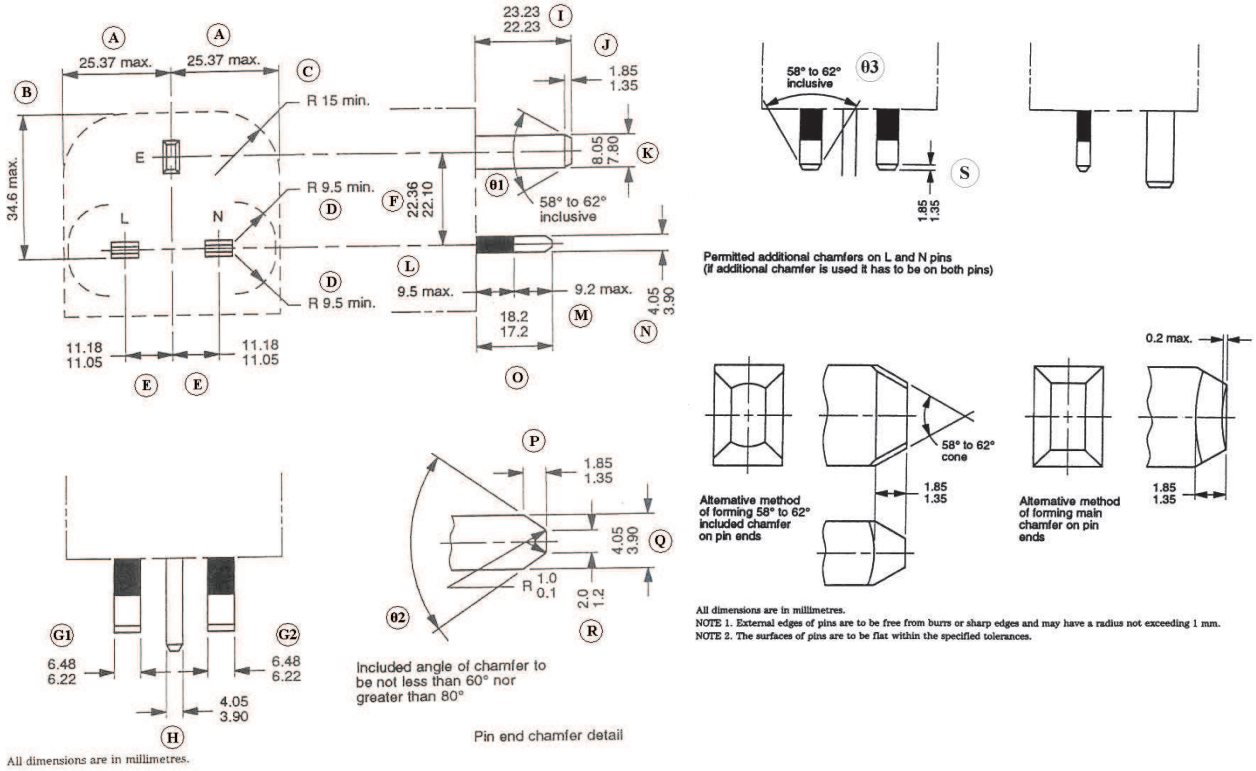

Figure 4a of BS 1363: Part 1

* Remark: all these dimensions were checked by the relevant gauge (based on BS1363: Part 1:1995 Figure 5)

Partially of BS 1363-1: part 1: 1995 + A4: 2012			
Clause	Requirement – Test	Result – Remark	Verdict

Plug Portion Dimensions (Solid insulated shutter opening device ISOD)

Linear Dimensions (mm)		SAMPLE A	Limit
T		8.00	7.75 - 8.05
U		4.01	3.90 - 4.05
V	E -> L	0.03	0.15 max
	E -> N	0.02	0.15 max
W	E -> top	0.03	0.15 max
	E -> L & N	0.03	0.15 max

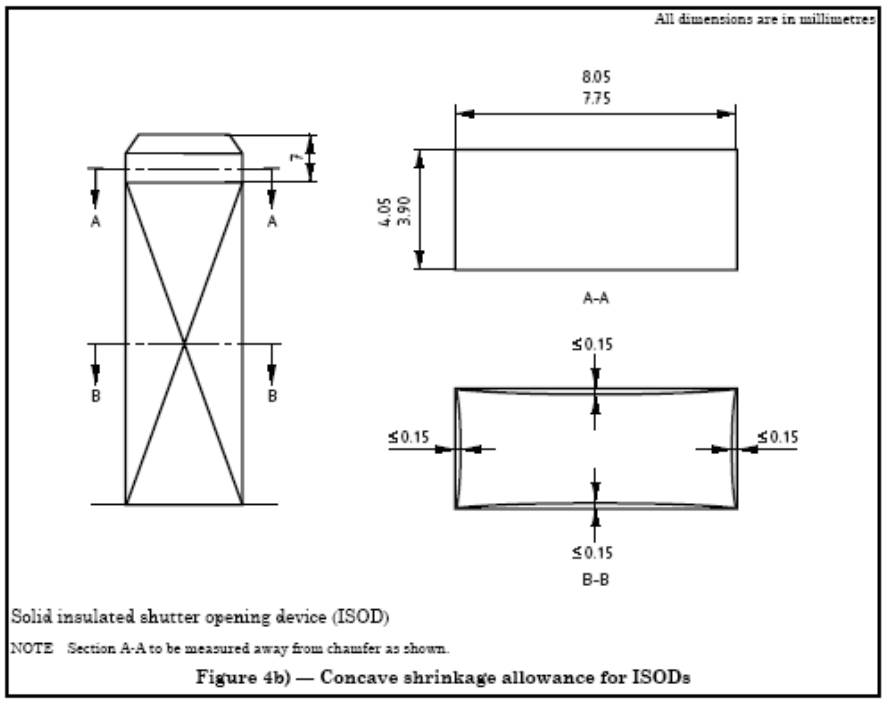

Figure 4b of BS 1363: Part 1

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TEST REPORT

DIN VDE 0620-1

Plugs and socket-outlets for household and similar purposes

Part 1: General requirements

Report reference No ..... :	50226014 001
Tested by (printed name and signature) ..... :	See cover page
Approved by (printed name and signature) ..... :	See cover page
Date of issue ..... :	See cover page
Testing Laboratory Name ..... :	See cover page
Address ..... :	See cover page
Testing location ..... :	See cover page
Applicant's Name ..... :	See cover page
Address ..... :	See cover page
..... :	
Test specification	
Standard..... :	DIN VDE 0620-2-1: 2013
Test procedure ..... :	Bauartzeichen
Procedure deviation ..... :	N/A
Non-standard test method ..... :	N/A
Test Report Form	This test-form is modified from DIN VDE 0620-1:2010 to DIN VDE 0620-2-1: 2013
Test Report Form No. ..... :	-
TRF originator ..... :	-
Master TRF ..... :	-
Test item description ..... :	-
Type of accessory ..... :	DE plug of Adapter
Trademark ..... :	---
Model and/or type reference ..... :	---

Test item particulars	
Standard Sheet..... :	DIN 49406 Teil 2 for Plug
Rated current (A)..... :	0.6
Rated voltage (V)..... :	250 a.c.
Degree of protection against harmful ingress of water..... :	~~ordinary /~~ splash-proof (IPX4) ~~/ jet-proof (IPX5)~~ (Plug portion)
Provision for earthing..... :	without earthing contact / ~~with earting contact~~
Method of connecting the cable..... :	~~rewirable /~~ non-rewirable
Type of cable..... :	N/A
Nominal cross-sectional areas (mm^2) ..... :	N/A
Type of terminals..... :	N/A
Type of connections..... :	~~soldered / welded /~~ ~~crimped / other~~
Socket-outlets:	
Degree of protection against electric shock... :	~~normal protection / increased protection~~
Existence of enclosures..... :	~~unenclosed / enclosed~~
Existence of shutters..... :	~~without shutters / with shutters~~
Method of application / mounting of the socket-outlet..... :	~~surface type / flush type / semi-flush type / panel type / architrave type / portable type / table type (single/multiple) / floor recessed type / appliance type~~
Method of installation..... :	~~Incorporated~~
Plugs:	
Class of equipment..... :	Class II
Test case verdicts	
Test case does not apply to the test object .. :	N/A
Test item does meet the requirement ..... :	P(ass)
Test item does not meet the requirement .... :	F(ail)
Testing	
Date of receipt of test item ..... :	See cover page
Date(s) of performance of test ..... :	See cover page

General remarks

This report shall not be reproduced except in full without the written approval of the testing laboratory.

The test results presented in this report relate only to the item(s) tested.

”(see remark #)" refers to a remark appended to the report.

"(see Annex #)" refers to an annex appended to the report.

Throughout this report a comma is used as the decimal separator.

DIN VDE 0620-2-1: 2013			
Cl.	Requirement – Test	Result	Verdict
8	MARKING		N/A
	Requirements by law regarding marking of products have to be considered (GPSG)		N/A
8.1	Accessories marked with:		—
	- rated current (A) ..... :	0.6	N/A
	- rated voltage (V) ..... :	250	N/A
	- symbol for nature of supply ..... :	AC	N/A
	- manufacturer's or responsible vendor's name.... :		N/A
	According to cl. 5 of GPSG		N/A
	- type reference ..... :		N/A
	- symbol for degree of protection (first digit) ..... :		N/A
	- symbol for degree of protection (second digit) ... :		N/A
	- rated value and type of every replaceable fuse (if any)		N/A
	- the length of insulation to be removed ..... :		N/A
	- an indication of the suitability to accept rigid conductors only (if any) ..... :		N/A
8.2	Symbols used: as required in the standard		N/A
	Marking for the nature of supply placed next to the marking for rated current and rated voltage		N/A
8.3	Marking of fixed socket-outlets placed on the main part:		N/A
	- rated current, rated voltage and nature of supply		N/A
	- identification mark of the manufacturer or of the responsible vendor		N/A
	- length of insulation to be removed, if any		N/A
	- type reference		N/A
	Cover plates necessary for safety purposes and intended to be sold separately: marked with the manufacturer's or responsible vendor's name and type reference		N/A
	Symbol for the degree of protection (second digit): marked on the outside of its associated enclosure so as to be easily discernible		N/A
8.4	Plugs and portable socket-outlets: marking specified in 8.1, other than the type reference, easily discernible		N/A
	Plugs and portable socket-outlets for equipment of class II not marked with the symbol for class II construction		N/A
	Portable socket-outlets IPx4 marked with "Only IPX4"		N/A
8.5	Neutral terminals: N..... :		N/A
	Earthing terminals: [earth symbol] ..... :		N/A

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Cl.	Requirement – Test	Result	Verdict
	Markings not placed on screws or other easily removable parts		N/A
	Terminals for conductors not forming part of the main function of the socket-outlet:		N/A
	- clearly identified unless their purpose is self evident, or		N/A
	- indicated in a wiring diagram fixed to the accessory		N/A
	- their marking with graphical symbols according to IEC 147 or colours and/or alphanumeric system, or		N/A
	- their physical dimension or relative location		N/A
8.6	Fixed socket-outlets other than ordinary: marked with the IP symbol visible when the accessory is installed		N/A
	Surface type socket-outlets with protection code IPX4 must be clearly marked to open the drain hole at the lowest position		N/A
8.7	Indication of which position or with which special provision the declared IP of flush-type and semi-flush type fixed socket-outlets is ensured		N/A
	Additional indication for socket-outlets intended only for mounting on certain types of surface		N/A
8.8	Marking durable and easily legible. Test: 15 s with water and 15 s with petroleum spirit		N/A
	Not smaller then 3 mm and legible without magnification		N/A
8.9	Warnings:		N/A
	a) Portable multiple socket-outlets		N/A
	Do not plug in series		N/A
	Do not use covered		N/A
	b) Portable multiple socket-outlets with switch		N/A
	Only unplugged dead		N/A
	c) Adaptors		N/A
	Do not plug in series		N/A
	d) Cord extension sets and multiple socket-outlets with power cord provided with information for which environment to be usable		N/A
8.10	For accessories to install the note acc. Annex E shall be marked on the smallest package unit		N/A
9	CHECKING OF DIMENSIONS	*TRLP*	P
9.1	Accessories and surface-type mounting boxes comply with the appropriate standard sheets	DIN 49406 Teli 2: 1981 Form R for plug part	P

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Cl.	Requirement – Test	Result	Verdict
	Insertion of plugs into fixed or portable socket-outlets ensured by their compliance with the relevant standard sheets		P
	Compliance checked by measurement and by means of gauges with manufacturing tolerances as shown in table 2		P
9.2	It shall not be possible to engage a plug with:		P
	- a socket-outlet having a higher voltage rating or a lower current rating;		P
	- a socket-outlet with a different number of live poles (exception admitted provided that no dangerous situation can arise);		P
	- a socket-outlet with earthing contact (plug for class 0 equipment).		P
	Engagement of a plug for class 0 or class I equipment with a socket-outlet designed to accept plugs for class II equipment, not possible		P
	Impossibility of insertion checked by applying a gauge, for 1 min, with a force of:		P
	- 150 N (rated current ≤ 16A);		P
	- 250 N (rated current > 16A)		N/A
	Accessories with elastomeric or thermoplastic material: test carried out at 35 °C ± 2 °C		P
9.3	Dimensions of plugs or socket-outlets as integral accessories (e.g. Timer, Plugs for Lawnmower, Adaptors, …) must comply the dimension sheets and the requirements of this standard.		N/A
	Additionally parts affecting the dimensions are not allowed		N/A
10	PROTECTION AGAINST ELECTRIC SHOCK VDE		P
10.1	Socket-outlets: live parts not accessible		N/A
	Live parts of plugs: not accessible when the plug is in partial or complete engagement with a socket-outlet	Test on adaptor	P
	Test with standard test finger shown in figure 2		P
	Accessories with elastomeric or thermoplastic material: additional test carried out at 35 °C ± 2 °C with a straight unjointed test finger (75 N for 1 min)		P
	During the test: accessories not deform and no live parts accessible		P
	Plugs and portable socket-outlets pressed with a force of 150 N for 5 min as shown in figure 22: specimens not show deformation		P

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Cl.	Requirement – Test	Result	Verdict
10.2	Accessible parts (with exception of small screws and the like for fixing bases and covers or cover plates): made of insulating material		P
	Cover or cover plates of fixed socket-outlets: made of metal if the requirements of 10.2.1 or 10.2.2 are fulfilled		N/A
10.2.1	Metal covers or cover plates protected by supplementary insulation made by insulating linings or insulating barriers	No metal cover	N/A
	Insulating linings or insulating barriers cannot be removed without being permanently damaged		N/A
	Insulating linings or insulating barriers cannot be replaced in an incorrect position and, if they are omitted, accessories are rendered inoperable or manifestly incomplete		N/A
	There is no risk of accidental contact between live parts and metal covers or cover plates		N/A
10.2.2	Metal covers or cover plates automatically connected, through a low-resistance connection, to the earth during fixing		N/A
10.3	Connection between a pin of a plug and a live socket-contact of a socket-outlet not possible while any other pin is accessible		P
	Compliance checked by manual test and by means of gauges with tolerances as specified in 9.1		P
	Accessories with elastomeric or thermoplastic material: test carried out at 35 °C ± 2 °C		P
	Socket-outlets with enclosure or bodies of rubber or polyvinyl chloride: test carried out with a force of 75 N for 1 min		N/A
	Fixed socket-outlets provided with metal covers or cover plates: clearance of at least 2 mm required between a pin and a socket-contact when another pin(s) is(are) in contact with the metal covers or cover plates ..... :		N/A
10.4	External parts of plugs and portable socket-outlets made of insulating material		P
	Overall dimensions of rings around pins not exceed 8 mm concentric with respect to the pin	No such rings	N/A
10.5	Shuttered socket-outlets: live parts not accessible, without a plug in engagement, with the gauge shown in figure 4		N/A
	Live contacts automatically screened when the plug is withdrawn		N/A

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Cl.	Requirement – Test	Result	Verdict
	Means cannot easily be operated by anything other than a plug and not depend upon parts which are liable to be lost		N/A
	Gauge applied to the entry holes corresponding to live contacts with a force up to 1 N shall not touch live parts		N/A
	Accessories with elastomeric or thermoplastic material: test carried out at 35 °C ± 2 °C		N/A
	Shutter do not constrain plugging. The force to open shutter do not exceed 30 N (tested by means of gauges 19a and 19b)		N/A
10.6	Earthing contacts of a socket-outlet designed that they cannot be deformed by the insertion of a plug		N/A
10.6.1	Gauge 14 inserted into the socket-outlet with a force of 150 N for 1 min.		—
	After this test: socket-outlet still comply with the requirements of clause 9		N/A
10.6.2	Sidely earthing contacts: Test acc. figure 43 at torque of 100 Ncm for 1 minute		N/A
	After this test it must be possible to insert gauge 4		N/A
10.7	Socket-outlet with increased protection: live parts not accessible		N/A
	Gauge of figure 4 applied with a force of 1 N on all accessible surfaces shall not touch live parts		N/A
	Accessories with elastomeric or thermoplastic material: test carried out at 35 °C ± 2 °C		N/A
11	PROVISION FOR EARTHING	VDE	N/A
11.1	Earth connection made before the current-carrying contacts of the plug become live		N/A
	Current-carrying pins shall separate before the earth connection is broken		N/A
11.2	Earthing terminals of rewirable accessories comply with clause 12		N/A
	Earthing terminals of the same size as the corresponding terminals for the supply conductors		N/A
	Any additional external earthing terminals of fixed socket-outlets of size suitable for conductors of at least 6 mm^2 ..... :		N/A
	Earthing terminals of rewirable accessories: internal		N/A
	Earthing terminals of fixed socket-outlets: fixed to the base or to a part reliably fixed to the base		N/A
	Earthing contacts of fixed socket-outlets:		N/A
	- fixed to the base, or		N/A

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Cl.	Requirement – Test	Result	Verdict
	- fixed to the cover (reliably connected to the earthing terminals; contact pieces silver plated or with adequate protection)		N/A
	Parts of earthing circuit in one piece or reliably connected by riveting, welding, or the like		N/A
11.3	Accessible metal parts of fixed socket-outlets: permanently and reliably connected to the earthing terminal		N/A
11.4	Socket-outlets, other than ordinary, with enclosure of insulating material and more than one cable inlet, provided with an internal earthing terminal for the continuity of the earthing circuit, unless	No cable inlet	N/A
	earthing terminals allows the connection of an incoming and an outgoing earthing conductor together		N/A
11.5	Connection between earthing terminal and accessible metal parts: of low resistance		N/A
	Test:		N/A
	Test current equal to 1,5 times the rated current or 25 A (A) ..... :		—
	Resistance not exceed 0,05 Ω (Ω) ..... :		N/A
12	TERMINALS TRLP		N/A
	All the test on terminals, with the exception of the test of 12.3 11, made after the test of clause 16		N/A
12.1	General		—
12.1.1	Rewirable fixed socket-outlets provided with screw-type terminals or with screwless terminals . :		N/A
	Rewirable plugs and portable socket-outlets provided with terminals with screw clamping ..... :		N/A
	Pre-soldered flexible conductors used: pre-soldered area outside the squeezed area of screw-type terminals		N/A
	Clamping means of terminals: not serve to fix any other components		N/A
12.1.2	Non-rewirable accessories provided with soldered, welded, crimped or equally effective permanent connections ..... :	Depend on end appliance	N/A
	Screwed or snap-on connections not used	Not used	N/A
	Connections made by crimping a pre-soldered flexible conductor not permitted	No such conductor	N/A
12.2	Terminals with screw clamping for external copper conductors		N/A
12.2.1	Accessories provided with terminals which allows the proper connection of copper conductors as shows in table 3		N/A

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Cl.	Requirement – Test	Result	Verdict
	Rated current (A); Type of accessories ..... :		—
	Type of conductor (rigid / flexible) ..... :		—
	Smallest / largest cross-sectional area (mm^2) ..... :		—
	Diameter of the largest conductor (mm) ..... :		—
	Figure of terminal ..... :		—
	Minimum diameter D (minimum dimensions) of conductor space: required (mm); measured (mm) :		N/A
12.2.2	Terminals allow the conductor to be connected without special preparation		N/A
12.2.3	Terminals have adequate mechanical strength		N/A
	Screws and nut for clamping the conductors have metric ISO thread or a comparable thread		N/A
	Screws not of soft metal such as zinc or aluminium		N/A
12.2.4	Terminals resistant to corrosion		N/A
12.2.5	Screw-type terminals clamp the conductor(s) without undue damage		N/A
	Test with apparatus shown in figure 32:		—
	- type of conductors ..... :	rigid solid / rigid stranded / flexible	—
	- number of conductors ..... :		—
	- smallest cross-sectional area (mm^2) (table 3); diameter of bushing hole (mm); height H (mm); mass (kg) ..... :		N/A
	- largest cross-sectional area (mm^2) (table 3); diameter of bushing hole (mm); height H (mm); mass (kg) ..... :		N/A
	- nominal diameter of thread (mm); torque according to table 6 (Nm) ..... :		—
	During the test: conductor not slip out, no break near clamping unit and no damage		N/A
12.2.6	Terminals clamp the conductor reliably between metal surfaces		N/A
	Pull test (1 min):		—
	- type of conductors ..... :		—
	- number of conductors ..... :		—
	- smallest cross-sectional area (mm^2) (table 3); pull (N) ..... :		N/A
	- largest cross-sectional area (mm^2) (table 3); pull (N) ..... :		N/A
	- torque (Nm) (2/3 table 6) ..... :		—
	During the test: conductor not move noticeably		N/A

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Cl.	Requirement – Test	Result	Verdict
12.2.7	Terminals designed or placed that the conductor cannot slip out while the clamping screws or nuts are tightened		N/A
	- largest cross-sectional area (mm²) (table 3) ..... :		—
	- number of wires and nominal diameter of wires (table 5):		—
	fixed socket-outlets: rigid solid conductors / rigid stranded conductors ..... :		—
	plugs and portable socket-outlets: flexible conductors ..... :		—
	- terminals intended for looping-in 2 or 3 conductors: permissible number of conductors .... :		—
	- torque (Nm) (2/3 table 6) ..... :		—
	After the test: no wire of the conductor escaped outside the clamping unit		N/A
12.2.8	Terminals not work loose from their fixing to accessories		N/A
	Torque test:		—
	- rigid solid copper conductor of the largest cross-sectional area (mm²) (table 3) ..... :		—
	- torque (Nm) (table 6 or appropriate figures 34, 35, 36) ..... :		—
	Screws and nuts tightened and loosened 5 times. During the test: terminals not work loose and show no damage		N/A
12.2.9	Clamping screws or nuts of earthing terminals: adequately locked against accidental loosening, not possible to loosen them without the aid of a tool		N/A
12.2.10	Earthing terminals: no risk of corrosion		N/A
	Body of brass or other metal no less resistant to corrosion		N/A
	If the body is a part of a frame or enclosure of aluminium alloy, precautions shall be taken to avoid the risk of corrosion		N/A
12.2.11	Pillar terminals: distance *g* no less than the value specified in figure 34: required (mm); measured (mm) ..... :		N/A
	Mantle terminals: distance *g* no less than the value specified in figure 37: required (mm); measured (mm) ..... :		N/A
12.3	Screwless terminals for external copper conductors		—
12.3.1	Screwless terminals of the type suitable for:		—
	- for rigid copper conductors only, or		N/A

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Cl.	Requirement – Test	Result	Verdict
	- for both rigid and flexible copper conductors (tests carried out with rigid and then repeated with flexible conductors)		N/A
12.3.2	Screwless terminals provided with two clamping units each allowing the proper connection of rigid or of rigid and flexible conductors having nominal cross-sectional areas from 1,5 up to 2,5 mm^2 (table 7)		N/A
	Two conductors to be connected: each conductor introduced in a separate clamping unit		N/A
12.3.3	Screwless terminals allow the conductor to be connected without special preparation		N/A
12.3.4	Parts of screwless terminals intended for carrying current of materials as specified in 26.5		N/A
12.3.5	Screwless terminals clamp specified conductors with sufficient contact pressure without undue damage to the conductor		N/A
	Conductor clamped between metal surfaces		N/A
12.3.6	It shall be clear how the connection and disconnection of the conductors is to be made		N/A
	Disconnection of a conductor require an operation, other than a pull, so that can be made manually with or without a general-purpose tool		N/A
	It shall not be possible to confuse the opening for the use of a tool with the opening intended for the conductor		N/A
12.3.7	Screwless terminals intended for the interconnection of two or more conductors:		—
	- during insertion, operation of clamping means of one of the conductors is independent of operation of that for the other conductor(s);		N/A
	- during disconnection, conductors can be disconnected either at the same time or separately;		N/A
	- each conductor introduced in a separate clamping unit.		N/A
	It shall be possible clamp securely any number of conductors up to the maximum as designed. Number of conductors; Nominal cross-sectional area (mm^2) ..... :		N/A
12.3.8	Screwless terminals of fixed socket-outlets: adequate insertion obvious and over-insertion prevented		N/A
12.3.9	Screwless terminals properly fixed to the socket-outlets		N/A
	Not work loose when conductors are connected or disconnected		N/A

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Cl.	Requirement – Test	Result	Verdict
	Self-hardening resins used to fix terminals not subject to mechanical stress		N/A
12.3.10	Screwless terminals withstand mechanical stresses occurring in normal use		N/A
	Test:		—
	Connection / disconnection 5 times: rigid solid conductor 2,5 mm^2		N/A
	Connection / disconnection 5 times: rigid solid conductor 1,5 mm^2		N/A
	Conductor subjected to a pull of 30 N for 1 min after each connection. During application of the pull conductor not come out of the terminal		N/A
	Connection / disconnection 1 time: rigid stranded conductor 2,5 mm^2		N/A
	Connection / disconnection 1 time: rigid stranded conductor 1,5 mm^2		N/A
	Conductor subjected to a pull of 30 N for 1 min after connection. During application of the pull conductor not come out of the terminal		N/A
	Additional test on terminals intended for both rigid and flexible conductors:		—
	Connection / disconnection 5 times: flexible conductor 2,5 mm^2		N/A
	Connection / disconnection 5 times: flexible conductor 1,5 mm^2		N/A
	Conductor subjected to a pull of 30 N for 1 min after each connection. During application of the pull conductor not come out of the terminal		N/A
	Additional test with apparatus shown in figure 32:		—
	- type of conductors ..... :		—
	- number of conductors ..... :		—
	- 1,5 mm^2; diameter of bushing hole 6,5 mm; height H 260 mm; mass 0,4 kg		N/A
	- 2,5 mm^2; diameter of bushing hole 9,5 mm; height H 280 mm; mass 0,7 kg		N/A
	During the test: conductors not move noticeably in the clamping unit		N/A
	After these tests: neither terminals nor clamping means have worked loose and conductors show no deterioration		N/A
12.3.11	Screwless terminals withstand electrical and thermal stresses occurring in normal use		N/A
	Test a) carried out for 1 h connecting rigid solid conductors:		—
	- test current (A) (table 10) ..... :		—

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Cl.	Requirement – Test	Result						Verdict
	- nominal cross-sectional area (mm^2) ..... :							—
	- screwless terminal number ..... :	1	2	3	4	5		—
	- voltage drop measured (mV) (requirement: ≤ 15 mV) ..... :							N/A
	Test b) (temperature cycles test) carried out on terminals subjected to Test a):							—
	- test current (A) (table 10) ..... :							—
	- cross-sectional area (mm^2) ..... :							—
	- screwless terminal number..... :	1	2	3	4	5		—
	- voltage drop measured after the 24 cycle (requirement: ≤ 22,5 mV) ..... :							N/A
	- voltage drop measured (mV) after 48th cycle ..... :							N/A
	- voltage drop measured (mV) after 72th cycle ..... :							N/A
	- voltage drop measured (mV) after 96th cycle ..... :							N/A
	- voltage drop measured (mV) after 120th cycle ... :							N/A
	- voltage drop measured (mV) after 144th cycle ... :							N/A
	- voltage drop measured (mV) after 168th cycle ... :							N/A
	- voltage drop measured (mV) after 192th cycle ... :							N/A
	- requirement: ≤ 22,5 mV or 2 times 24th cycle value (mV) ..... :							N/A
	After this test: inspection show no changes							N/A
	Mechanical strength test according 12.3.10:							—
	Connection / disconnection 5 times: rigid solid conductor 2,5 mm^2							N/A
	Connection / disconnection 5 times: rigid solid conductor 1,5 mm^2							N/A
	Conductor subjected to a pull of 30 N for 1 min after each connection. During application of the pull conductor not come out of the terminal							N/A
	Connection / disconnection 1 time: rigid stranded conductor 2,5 mm^2							N/A
	Connection / disconnection 1 time: rigid stranded conductor 1,5 mm^2							N/A
	Conductor subjected to a pull of 30 N for 1 min after connection. During application of the pull conductor not come out of the terminal							N/A
	Additional test on terminals intended for both rigid and flexible conductors:							—
	Connection / disconnection 5 times: flexible conductor 2,5 mm^2							N/A
	Connection / disconnection 5 times: flexible conductor 1,5 mm^2							N/A

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Cl.	Requirement – Test	Result			Verdict
	Conductor subjected to a pull of 30 N for 1 min after each connection. During application of the pull conductor not come out of the terminal				N/A
	Additional test with apparatus shown in figure 32:				—
	- type of conductors ..... :	*rigid solid / rigid stranded / flexible*			—
	- number of conductors ..... :				—
	- 1,5 mm²; diameter of bushing hole 6,5 mm; height H 260 mm; mass 0,4 kg				N/A
	- 2,5 mm²; diameter of bushing hole 9,5 mm; height H 280 mm; mass 0,7 kg				N/A
	During the test: conductors not move noticeably in the clamping unit				N/A
	After these tests: neither terminals nor clamping means have worked loose and conductors show no deterioration				N/A
12.3.12	Screwless terminals: connected rigid solid conductor remains clamped, even when deflected during normal installation				N/A
	Deflection test (principle of test apparatus shown in figure 33 a)):				—
	- test current (A) (equal rated current) ..... :				—
	Smallest cross-sectional area (mm^2) (table 11) ... :				—
	Force (N) (table 12) ..... :				—
	- screwless terminal number..... :	1	2	3	—
	- starting point (X= deflection original point)..... :	X	X+10°	X+20°	—
	- voltage drop measured (mV) (1st deflection) ..... :				N/A
	- voltage drop measured (mV) (2nd deflection) ..... :				N/A
	- voltage drop measured (mV) (3rd deflection) ..... :				N/A
	- voltage drop measured (mV) (4th deflection) ..... :				N/A
	- voltage drop measured (mV) (5th deflection) ..... :				N/A
	- voltage drop measured (mV) (6th deflection) ..... :				N/A
	- voltage drop measured (mV) (7th deflection) ..... :				N/A
	- voltage drop measured (mV) (8th deflection) ..... :				N/A
	- voltage drop measured (mV) (9th deflection) ..... :				N/A
	- voltage drop measured (mV) (10th deflection) .... :				N/A
	- voltage drop measured (mV) (11th deflection).... :				N/A
	- voltage drop measured (mV) (12th deflection).... :				N/A
	- requirement: ≤ 25 mV				N/A
	Largest cross-sectional area (mm^2) (table 11) ..... :				—
	Force (N) (table 12) ..... :				—
	- screwless terminal number..... :	1	2	3	—

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Cl.	Requirement – Test	Result			Verdict
	- starting point (X= deflection original point)..... :	X	X+10°	X+20°	—
	- voltage drop measured (mV) (1st deflection) ..... :				N/A
	- voltage drop measured (mV) (2nd deflection) ..... :				N/A
	- voltage drop measured (mV) (3rd deflection) ..... :				N/A
	- voltage drop measured (mV) (4th deflection) ..... :				N/A
	- voltage drop measured (mV) (5th deflection) ..... :				N/A
	- voltage drop measured (mV) (6th deflection) ..... :				N/A
	- voltage drop measured (mV) (7th deflection) ..... :				N/A
	- voltage drop measured (mV) (8th deflection) ..... :				N/A
	- voltage drop measured (mV) (9th deflection) ..... :				N/A
	- voltage drop measured (mV) (10th deflection) .... :				N/A
	- voltage drop measured (mV) (11th deflection).... :				N/A
	- voltage drop measured (mV) (12th deflection).... :				N/A
	- requirement: ≤ 25 mV				N/A
12.4	Crimped connections			*TRLP*	N/A
	Crimped connections of non-rewirable plugs and portable socket-outlets shall have reliable electrical and mechanical properties.				N/A
	Photo documentation of 3 connections showing 3 sides				N/A
	Values of height, force or voltage drop (lower and upper limit) are evaluated and documented by manufacturer for PVT				N/A

13	CONSTRUCTION OF FIXED SOCKET-OTLETS	VDE	N/A
13.1	Socket-contact assembly: sufficient resiliency		N/A
13.2	Socket-contact and pins of socket-outlets: resistant to corrosion		N/A
13.3	Insulating linings, barriers and the like: adequate mechanical strength		N/A
13.4	Socket-outlets constructed as to permit		—
	- easy fixing of the base to a 15ail or in a mounting box		N/A
	- easy introduction and connection of the conductors in the terminals		N/A
	- easy fixing of the base to a wall or in a mounting box;		N/A
	- easy fixing of the base to a wall or in a mounting box		N/A
	- correct positioning of the conductors		N/A

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Cl.	Requirement – Test	Result	Verdict
	- adequate space between the underside of the base and the surface on which the base is mounted – surface mounted		N/A
	- adequate space between the underside of the base and the sides of the base and the enclosure (cover or box) – flush mounted		N/A
	Socket-outlets classified as design A: permit easy positioning and removal of the cover or cover plate, without displacing the conductors		N/A
13.5	Socket-outlets designed that full engagement of associated plugs is not prevented by any projection from their engagement face		N/A
	Gap between the engagement face of the socket-outlet and the plug: not exceed 1 mm		N/A
13.6	Covers provided with bushings for the entry holes for the pins: not possible to remove them from the outside or for them to become detached inadvertently from the inside when the cover is removed		N/A
13.7	Covers, cover-plates or parts of them intended to ensure protection against electric shock:		—
	- held in place at two or more points by effective fixings		N/A
	- fixed by means of a single fixing, e.g. by a screw, provided that they are located by another means (e.g. by a shoulder)		N/A
	Means to fix covers or cover plates must be captive		N/A
	Means of covers or cover-plates of socket-outlets of design A serve to fix the base shall be maintain the base in position, even after removal of the covers or cover-plates		N/A
13.7.1	Covers or cover-plates whose fixings are of the screw-type:		—
	Compliance checked by inspection only		N/A
13.7.2	Covers or cover-plates whose fixing is not dependent on screws and whose removal is obtained by applying a force in a direction approximately perpendicular to the mounting/supporting surface:		—
	Compliance checked, when their removal may give access, with the standard test finger:		—
	to live parts: by the test of 24.14 (verification of the non-removal and the removal)		N/A
	to non-earthed metal parts separated from live parts in such a way that creepage distances and clearances have the values shown in table 23: by the test of 24.15 (verification of the non-removal and the removal)		N/A

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	only to insulating parts, or earthed metal parts, or metal parts separated from live parts in such a way that creepage distances and clearances have twice the values shown in table 23, or live parts of SEL V circuits not greater than 25 V a.c.: by the test of 24.16 (verification of the non-removal and the removal)		N/A
13.7.3	Covers or cover-plates whose fixing is not dependent on screws and whose removal is obtained by using a tool, in accordance with the manufacturer's information given in an instruction sheet or in a catalogue:		—
	Compliance checked, when their removal may give access, with the standard test finger:		—
	to live parts: by the test of 24.14 (verification of the non-removal only)		N/A
	to non-earthed metal parts separated from live parts in such a way that creepage distances and clearances have the values shown in table 23: by the test of 24.15 (verification of the non-removal only)		N/A
	only to insulating parts, or earthed metal parts, or metal parts separated from live parts in such a way that creepage distances and clearances have twice the values shown in table 23, or live parts of SEL V circuits not greater than 25 V a.c.: by the test of 24.16 (verification of the non-removal only)		N/A
13.8	void		N/A
13.9	Ordinary surface-type socket-outlets: no free openings in the enclosure		N/A
13.10	Screws or other means for mounting the socket-outlet on a surface in a box or enclosure: easily accessible from the front.		N/A
	Fixing means not serve any other fixing purpose		N/A
13.11	Multiple socket-outlets with a common base: provided with fixed links for the interconnection of the contacts in parallel		N/A
	Fixing of the links independent of the connection of the supply wires		N/A
13.12	Multiple socket-outlets, comprising separate bases: correct position of each base ensured		N/A
	Fixing of each base independent of the fixing of the combination to the mounting surface		N/A
13.13	Mounting plate of surface-type socket-outlets: adequate mechanical strength		N/A
13.14	Socket-outlets withstand the lateral strain imposed by equipment likely to be introduced into them		N/A

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Cl.	Requirement – Test	Result	Verdict
	Socket-outlets 16A 250V: test made 4 times with the socket-outlet turned through 90°, 15 N for 1 min (device shown in fig. 6)		N/A
	During the test: device not come out		N/A
	After the test:		—
	- no damage		N/A
	- socket-outlets comply with clause 22		N/A
13.15	Socket-outlets shall not be an integral part of lampholders		N/A
13.16	Socket-outlets other than ordinary: totally enclosed when fitted with screwed conduits or with polyvinyl chloride (p.v.c.) sheathed or similar type cables and without a plug in position		N/A
	Surface-type socket-outlets other than ordinary shall have provision for opening a drain hole of at least 5 mm in diameter, or 20 mm^2 in area with a width and a length of at least 3mm ..... :	∅ mm / mm^2	N/A
	Drain hole: effective		N/A
	Lid springs (if any): of corrosion resistant material (bronze or stainless steel)		N/A
13.17	void		N/A
13.18	Earthing pins: adequate mechanical strength		N/A
	Not solid pins: compliance checked by inspection and by the test of 14.2 made after the tests of clause 21		N/A
	Earthing contacts and neutral contacts: locked against rotation and removable only with the aid of a tool, after dismantling the socket-outlet		N/A
13.19	Metal strips of the earthing circuit: no burrs which might damage the insulation of the supply conductors		N/A
13.20	Socket-outlets to be installed in a box: designed that the conductor ends can be prepared after the box is mounted in position, but before the socket-outlet is fitted in the box		N/A
13.21	Inlet openings: allow the introduction of the conduit or the sheath of the cable		N/A
	Surface-type socket-outlets:		—
	the conduit or sheath of the cable can enter at least I mm into the enclosure		N/A
	inlet opening for conduit entries, or at least two of them if there are more than one, capable of accepting conduit sizes of 16, 20, 25 or 32 or a combination of at least two of any of these sizes		N/A

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Cl.	Requirement – Test	Result	Verdict
	inlet opening for cable entries capable of accepting cables having the dimensions specified in table 14 or be as specified by the manufacturer: rated current (A); Limits of external dimensions of cable min/max (mm) ..... :		N/A
13.22	Membranes (grommets) in inlet openings: reliably fixed and not displaced by the mechanical and thermal stresses occurring in normal use		N/A
	Test on membranes subjected to the ageing treatment specified in 16.1 and assembled in the accessories		—
	Accessories placed at 40 °C for 2 h. Force of 30 N applied for 5 s by test finger. During the test: no deformation		N/A
	Membranes likely to be subjected to an axial pull: axial pull of 30 N applied for 5 s. During the test: membranes not come out		N/A
	After the test: no harmful deformation, cracks or similar damage		N/A
	Test repeated with membranes not subjected to any treatment		N/A
13.23	Membranes in inlet openings: introduction of the cables into the accessory permitted when the ambient temperature is low		N/A
	Test on membranes not subjected to the ageing treatment specified in 16.1 and assembled in the accessories		—
	Accessories kept at -15 °C for 2 h: possibility to introduce cables of the largest diameter through membranes		N/A
	After the test: no harmful deformation, cracks or similar damage		N/A
13.24	Hinged covers to provide protection class ≥IPx4 of socket-outlets: reliable working ensured		N/A
14	CONSTRUCTION OF PLUGS AND PORTABLE SOCKET-OTLETS *VDE/TRLP*		P
14.1	Non-rewirable plug or non-rewirable portable socket-outlet:		N/A
	flexible cable cannot be separated from the accessory without making it permanently useless		N/A
	Accessory cannot be opened by hand or by using a general purpose tool, for example a screwdriver used as such	Consider in the end appliance	N/A
14.2	Pins of plugs and portable socket-outlets: adequate mechanical strength		P
	Test for pins not solid (made after clause 21): force of 100 N exerted on the pin for 1 min by means of a steel rod Ø 4,8 mm		N/A
	During the application of the force: reduction of the dimension of the pin not exceed 0,15 mm		N/A

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Cl.	Requirement – Test	Result	Verdict
	After removal of the rod: dimensions of the pin not changed by more than 0,06 mm		N/A
14.3	Pins of plugs:		P
	- locked against rotation		P
	- not removable without dismantling the plug		P
	- adequately fixed in the body of the plug when the plug is wired and assembled as in normal use		P
	Earthing contacts and neutral pin: not possible to replace in an incorrect position		P
14.4	Earthing contacts and neutral contacts of portable socket-outlets:		N/A
	- locked against rotation		N/A
	- removable only with the aid of a tool, after dismantling the socket-outlet		N/A
14.5	Socket-contact assemblies: sufficient resiliency		N/A
	Contact pressure not alone depending by soldered connections		N/A
14.6	Pins and socket-contacts: resistant to corrosion and abrasion		N/A
14.7	Enclosures of rewirable accessories: completely enclose terminals and ends of flexible cable.		N/A
	Construction of rewirable accessories:		N/A
	- conductors can be properly connected		N/A
	- cores not pressed against each other		N/A
	- cores of live conductor not in contact with accessible metal parts		N/A
	- core of earthing conductor not in contact with live parts		N/A
14.8	Rewirable accessories: terminal screws or nuts cannot become loose and fall out of position and establish an electrical connection between live parts and earthing terminal or metal parts		N/A
14.9	Rewirable accessories with earthing contact: ample space for slack of earthing (test)		N/A
	Non-rewirable non-moulded-on accessories with earthing contact: current-carrying conductors stressed before the earthing conductor if the flexible cable slips in its anchorage		N/A
14.10	Terminals of rewirable accessories and terminations of non-rewirable accessories: located and shielded that loose wires not present a risk of electric shock		N/A
14.10.1	Rewirable accessories: test with 6 mm free wire		N/A

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Cl.	Requirement – Test	Result	Verdict
	free wire of a conductor connected to a live terminal not touch any accessible metal part or able to emerge from the enclosure		N/A
	free wire of a conductor connected to an earthing terminal not touch a live part		N/A
14.10.2	Non-rewirable, non-moulded-on accessories: test with a free wire of length equivalent to the maximum designed stripping length declared by the manufacturer plus 2 mm		N/A
	free wire of a conductor connected to a live termination not touch any accessible metal part or reduce creepage and clearance below 1,5 mm to the external surface	No such free wire	N/A
	free wire of a conductor connected to an earth termination not touch any live part		N/A
14.10.3	Non-rewirable, moulded-on accessories:		N/A
	Verification of means to prevent stray wires reducing the minimum distance through insulation to external accessible surface below 1,5 mm		N/A
14.11	Rewirable plugs and rewirable portable socket-outlets:		N/A
	- clear how relief from strain and prevention of twisting is intended to be effected		N/A
	- cord anchorage, or at least part of it, integral with or permanently fixed to one of the component parts of the plug or portable socket-outlet		N/A
	- makeshift methods not used		N/A
	- cord anchorage suitable for the different types of flexible cable which may be connected; screws, if any: not serve to fix any other component		N/A
	- cord anchorages: of insulating material or provided with an insulating lining fixed to the metal parts		N/A
	- metal parts of cord anchorages, including clamping screws: insulated from the earthing circuit		N/A
14.12	Rewirable plugs and portable socket-outlets : It is not possible to remove covers, cover-plates or parts of them intended to ensure protection against electric shock without the use of a tool		N/A
14.13	Covers of portable socket-outlets: bushings for entry holes for the pins not removable from the outside or detachable inadvertently from the inside		N/A
14.14	Screws intended to allow access to interior of the accessory: captive		N/A
14.15	Engagement face of plugs: no projections		P

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Cl.	Requirement – Test	Result	Verdict
14.16	Engagement face of portable socket-outlets: no projection		N/A
14.17	Accessories other than ordinary: provided with gland(s) or the like		N/A
	Plugs other than ordinary: adequately enclosed		N/A
	Portable socket-outlets other than ordinary: adequately enclosed without a plug in engagement		N/A
	Lid springs (if any): of corrosion resistant material (bronze or stainless steel)		N/A
14.18	Portable socket-outlets: means for suspension from a wall or other mounting surfaces not allow access to live parts		N/A
	No free openings between space intended for suspension means fixed to the wall and live parts		N/A
14.19	Combinations of plugs and socket-outlets with circuit-breakers or other protective devices comply with relevant standards, if any ..... :		N/A
14.20	Portable accessories: not integral part of lampholders		P
	Adaptors must meet requirements to DIN 49437	*TRLP*	N/A
	Multiple socket outlets with earthing contacts and rigid fixed plug are not permissible		N/A
14.21	Plugs for equipment of class II:		N/A
	- non-rewirable		N/A
	- if incorporated in a cord set: provided with a connector for equipment of class II		N/A
	- if incorporated in a cord extension set: provided with a portable socket-outlet for equipment of class II		N/A
14.22	Components (switches and fuses) incorporated in accessories: comply with the relevant IEC standard	No such component	N/A
14.23	Plug-in equipment: not cause overheating of the pins or impose undue strain		N/A
	Plugs with rating above 16 A and 250 V: not integral part of other equipment		N/A
	Tests for two-pole plugs, with or without earthing contact, with rating up to and including 16 A and 250 V (plug of equipment inserted into a fixed socket-outlet complying with this standard):		N/A
14.23.1	Socket-outlet connected to a supply voltage equal to 1,1 times the highest rated voltage of the equipment (V) ..... :		—
	Temperature rise of the pins after 1 h not exceed 45 K (K) ..... :	Shall be tested in end product.	N/A

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Cl.	Requirement – Test	Result	Verdict
14.23.2	Additional torque applied to the socket-outlet to maintain the engagement face in the vertical plane not exceed 0,25 Nm (Nm) ..... :		N/A
14.24	Plugs: can easily withdrawn by hand from the relevant socket-outlet		P
	Gripping surfaces: so designed that the plug can be withdrawn without pull on the flexible cable		P
14.25	Membranes in inlet openings: meet the requirements of 13.23 and 13.24		N/A
14.26	Adaptor socket outlets: Min. length of power cord 1.4m		N/A
14.27	Table type socket-outlets: Min. length of power cord 1.4m		N/A
14.28	Hinged covers to provide protection class ≥IPx4 of portable socket-outlets: reliable working ensured		N/A
	Cover-plates fixed reliable		N/A
15	INTERLOCKED SOCKET-OUTLETS *VDE*		N/A
	Socket-outlet interlocked with a switch:		N/A
	plug cannot be inserted into or completely withdrawn from the socket-outlet while the socket-contacts are live		N/A
	Socket-contacts cannot be made live until a plug is almost completely in engagement		N/A
16	RESISTANCE TO AGEING, PROTECTION PROVIDES BY ENCLOSURE AND RESISTANCE TO HUMIDITY *VDE*		P
16.1	Resistance to ageing		P
	Accessories shall be resistant to ageing		P
	Accessories subjected to a test in a heating cabinet at 70 °C ± 2 °C for seven days (168 h)		P
	After the tests, samples shall show:		—
	- no crack visible with normal or corrected vision without additional magnification		P
	- no sticky or greasy material		P
	- no trace of cloth (forefinger pressed with 5 N)		P
	- no damage		P
16.2	Protection provided by enclosure		P
	Enclosures provide a degree of protection in accordance with the IP designation of the accessory:	Plug portion	P
	Flush-type and semi flush-type socket-outlets fixed:		N/A

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Cl.	Requirement – Test	Result	Verdict
	- in a test wall using an appropriate box in accordance with the manufacturer's instructions		N/A
	- in a test wall according to figure 41		N/A
	Fixed socket-outlets: Test while plugged with plug of same protection class		N/A
	Fixed socket-outlets: Test while unplugged		N/A
	Portable socket-outlets tested on a plain, horizontal surface in a position as in normal use		N/A
	Portable socket-outlets: Test while plugged with plug of same protection class or gauge acc. DIN 49440-4		N/A
	Portable socket-outlets: Test while unplugged		N/A
	Plugs: Test while plugged into portable socket-outlet with same protection class		N/A
	Accessories fitted with flexible cables according to table 17 having the largest and smallest cross-sectional area given in table 3:		N/A
	- largest cross-sectional area (mm^2); type of cable (table 27) ..... :		N/A
	- smallest cross-sectional area (mm^2); type of cable (table 27) ..... :		N/A
	Mounting screws tightened with a torque equal to 2/3 of the torque given in table 6 (Nm) ..... :		N/A
	Glands tightened with a torque equal to 2/3 of the torque applied during the test of 24.6 (Nm) ..... :		N/A
16.2.1	Protection against access to hazardous parts and against harmful effects due to ingress of solid foreign objects		P
16.2.1.1	Protection against access to hazardous parts		P
	Accessories and their enclosure provide a degree of protection against access to hazardous parts		P
16.2.1.2	Protection against harmful effects due to ingress of solid foreign objects		P
	Accessories and their enclosure provide a degree of protection against harmful effects due to ingress of solid foreign objects		P
16.2.2	Protection against harmful effects due to ingress of water		P
	Enclosure of accessories other than ordinary shall provide a degree of protection against harmful ingress of water in accordance with the classification		P
	Splash-proof accessories subjected to the test IPX4 according to IEC 529		P
	Jet-proof accessories subjected to the test IPX5 according to IEC 529		N/A

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Cl.	Requirement – Test	Result	Verdict
	Specimens withstand an electric strength test specified in 17.2 which is started within 5 min after the IP test		P
16.3	Resistance to humidity		P
	Accessories proof against humidity which may occur in normal use		P
	Compliance checked by a humidity treatment carried out in a humidity cabinet containing air with relative humidity maintained between 91 % and 95 %	93%	P
	Specimens kept in the cabinet for:		—
	- two days (48 h) for ordinary accessories		N/A
	- seven days (168 h) for accessories other than ordinary		P
	After this treatment the specimens show no damage		P
17	INSULATION RESISTANCE AND ELECTRIC STRENGTH *VDE*		P
17.1.1	For socket-outlets: insulation resistance (500 V d.c. for 1 min):		N/A
	a) between all poles connected together and the body, with a plug in engagement ≥ 5 MΩ ..... :		N/A
	b) between each pole in turn and all others connected to the body, with a plug in engagement ≥ 5 MΩ ..... :		N/A
	c) between any metal enclosures and metal foil in contact with the inner surface of its insulating linings, if any ≥ 5 MΩ ..... :		N/A
	d) between any metal part of the cord anchorage, including clamping screws, and earthing terminal or earthing contact, if any, of portable socket-outlets ≥ 5 MΩ ..... :		N/A
	e) between any metal part of the cord anchorage of portable socket-outlets and a metal rod of the maximum diameter of the flexible cable inserted in its place ≥ 5 MΩ ..... :		N/A
17.1.2	For plugs: insulation resistance (500 V d.c. for 1 min):		P
	a) between all poles connected together and the body ≥ 5 MΩ ..... :	>500 MΩ	P
	b) between each pole in turn and all others connected to the body ≥ 5 MΩ ..... :	>500 MΩ	P
	c) between any metal part of the cord anchorage, including clamping screws, and earthing terminal or earthing contact, if any ≥ 5 MΩ ..... :		N/A

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Cl.	Requirement – Test	Result	Verdict
	d) between any metal part of the cord anchorage and a metal rod of the maximum diameter of the flexible cable inserted in its place ≥ 5 MΩ ..... :		N/A
17.2	Socket-outlets: electric strength, test voltage (a.c., for 1 min):		N/A
	a) test voltage (V) ..... :		N/A
	b) test voltage (V) ..... :		N/A
	c) test voltage (V) ..... :		N/A
	d) test voltage (V) ..... :		N/A
	e) test voltage (V) ..... :		N/A
	Plugs: electric strength, test voltage (a.c., for 1 min):		P
	a) test voltage (V) ..... :	2000V	P
	b) test voltage (V) ..... :	2000V	P
	c) test voltage (V) ..... :		N/A
	d) test voltage (V) ..... :		N/A
	During the test no flashover or breakdown		P
18	OPERATION OF EARTHING CONTACTS		**N/A**
	Earthing contacts provide adequate contact pressure and not deteriorate in normal use		N/A
18.1	Fixed socket-outlets and portable socket-outlets		N/A
	Force exerted measured in side earthing contacts not less than 5 N (CEE 7 clause 18) ..... :		N/A
	Compliance for other than side earthing contacts checked by the tests of clauses 19 and 21		N/A
18.2	Plugs		N/A
	Dimensions not changed for more than 1mm		N/A
19	TEMPERATURE RISE *TRLP*		N/A
	Rated cross section assigned by table 15:	Shall be tested in end product.	—
	Rated current: 16 A	*1.5 mm² / ~~2.5 mm²~~ flexible / ~~rigide~~*	N/A
	Rated current >16 A		N/A
	Non-rewirable accessories tested as delivered:		N/A
	- type of flexible cable; number of conductors and nominal cross-sectional area (mm^2)..... :		—
	Rewirable accessories fitted with polyvinyl chloride insulated conductors having a nominal cross-sectional area as show in table 15:		N/A
	- rated current of accessory: (A)		—
	- nominal cross-sectional area: (mm^2)		—
	- type of conductors ..... :		—

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Cl.	Requirement – Test	Result	Verdict
	Terminal screws or nuts tightened with a torque equal to 2/3 of that specified in 12.2.8 (Nm) ..... :		—
	Socket-outlets and adaptors tested by using a test plug according to figure 16		P
19.1	Fixed socket-outlets		N/A
19.1.1	Fixed socket-outlets without integrated supplementary functions		N/A
	Test current as specified by table 20 passed for 1h: (A)		—
	- Temperature rise of terminals and connections less than 45 K: (K)		N/A
	Separate tests made passing the current through:		—
	- the neutral contact, if any, and the adjacent phase contact (K)..... :		N/A
	- the earthing contact, if any, and the nearest phase contact (K)..... :		N/A
	Touchable metal parts: max. 40 K: (K)		N/A
	Touchable non-metallic parts: max. 45 K : (K)		N/A
	Temperature rise of external parts of insulating material not necessary to retain current-carrying parts and parts of earthing circuits in position: (K)		N/A
19.1.2	Fixed socket-outlets with integrated supplementary function		N/A
	Rated current passed for 1 h (A) or:		N/A
	Rated current passed until the integrated protection device operates: (minutes)		N/A
	- Temperature rise of terminals and connections of supplementary functions do not exceed the limits of their standards		N/A
	- All other terminals , connections, contacts and terminals for mains do not exceed 45 K: (K)		N/A
	Separate tests made passing the current through:		—
	- the neutral contact, if any, and the adjacent phase contact (K)..... :		N/A
	- the earthing contact, if any, and the nearest phase contact (K)..... :		N/A
	Touchable metal parts: max. 40 K: (K)		N/A
	Touchable non-metallic parts: max. 45 K : (K)		N/A
	Temperature rise of external parts of insulating material not necessary to retain current-carrying parts and parts of earthing circuits in position: (K)		N/A
	Test current as specified by table 20 passed for 1h (A) or:		N/A

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Cl.	Requirement – Test	Result	Verdict
	Test current passed until the integrated protection device operates: (minutes):		N/A
	repeated with 0.95% of current: (A)		N/A
	Repeated with 150% of rated fuse current for 30/60 minutes: (fuse (A) / current (A) / time (minutes)		N/A
	- Temperature rise of terminals and connections do not exceed 70 K and: (K)		N/A
	- Temperature rise of contacts do not exceed 45 K: (K)		N/A
	Separate tests made passing the current through:		—
	- the neutral contact, if any, and the adjacent phase contact (K) ..... :		N/A
	- the earthing contact, if any, and the nearest phase contact (K) ..... :		N/A
	Touchable metal parts: max. 40 K: (K)		N/A
	Touchable non-metallic parts: max. 45 K : (K)		N/A
	Temperature rise of external parts of insulating material not necessary to retain current-carrying parts and parts of earthing circuits in position: (K)		N/A
19.2	Portable Socket-outlets		N/A
	Non-rewirable plugs of extension cords and socket-outlets (multiple-portable and table-type) passed by the test current acc. table 20 as intended for non-rewirable portable socket-outlets / rewirable portable accessories: (A)		N/A
19.2.1	Portable socket-outlets without integrated supplementary function		N/A
	Test current as specified by table 20 passed for 1h: (A)		—
	- Temperature rise of terminals and connections less than 45 K: (K)		N/A
	Separate tests made passing the current through:		—
	- the neutral contact, if any, and the adjacent phase contact (K) ..... :		*N/A*
	- the earthing contact, if any, and the nearest phase contact (K) ..... :		*N/A*
	Touchable metal parts: max. 40 K: (K)		N/A
	Touchable non-metallic parts: max. 45 K : (K)		*N/A*
	Temperature rise of external parts of insulating material not necessary to retain current-carrying parts and parts of earthing circuits in position: (K)		*N/A*
19.2.2	Portable socket-outlets with integrated supplementary function		N/A

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Cl.	Requirement – Test	Result	Verdict
	Rated current passed for 1 h (A) or:		N/A
	Rated current passed until the integrated protection device operates: (minutes):		N/A
	- Temperature rise of terminals and connections of supplementary functions do not exceed the limits of their standards		N/A
	- All other terminals , connections, contacts and terminals for mains do not exceed 45 K: (K)		N/A
	Separate tests made passing the current through:		—
	- the neutral contact, if any, and the adjacent phase contact (K) ..... :		N/A
	- the earthing contact, if any, and the nearest phase contact (K) ..... :		N/A
	Touchable metal parts: max. 40 K: (K)		N/A
	Touchable non-metallic parts: max. 45 K : (K)		N/A
	Temperature rise of external parts of insulating material not necessary to retain current-carrying parts and parts of earthing circuits in position: (K)		N/A
	Test current as specified by table 20 passed for 1h (A) or:		N/A
	Test current passed until the integrated protection device operates: (minutes):		N/A
	repeated with 0.95% of current: (A)		N/A
	Repeated with 150% of rated fuse current for 30/60 minutes: (fuse (A) / current (A) / time (minutes)		N/A
	- Temperature rise of terminals and connections do not exceed 70 K and: (K)		N/A
	- Temperature rise of contacts do not exceed 45 K: (K)		N/A
	Separate tests made passing the current through:		—
	- the neutral contact, if any, and the adjacent phase contact (K) ..... :		N/A
	- the earthing contact, if any, and the nearest phase contact (K) ..... :		N/A
	Touchable metal parts: max. 40 K: (K)		N/A
	Touchable non-metallic parts: max. 45 K : (K)		N/A
	Temperature rise of external parts of insulating material not necessary to retain current-carrying parts and parts of earthing circuits in position: (K)		N/A
19.3	Plugs tested using a test apparatus with thermo-couple on every live pin or PE-contact	*Class II*	N/A
19.3.1	Plugs without integrated supplementary function		N/A

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Cl.	Requirement – Test	Result	Verdict
	Test current as specified in table 20 passed for 1 h: (A)		—
	- Temperature rise of terminals and connections do not exceed 45 K: (K)	13,2 K	P
	Separate tests made passing the current through:		—
	- the neutral contact, if any, and the adjacent phase contact (K) ..... :		N/A
	- the earthing contact, if any, and the nearest phase contact (K) ..... :		N/A
	Touchable metal parts: max. 40 K: (K)		N/A
	Touchable non-metallic parts: max. 45 K : (K)		N/A
	Temperature rise of external parts of insulating material not necessary to retain current-carrying parts and parts of earthing circuits in position: (K)		N/A
19.3.2	Rewirable plugs with integrated supplementary functions:		N/A
	Rated current passed for 1 h (A) or:		N/A
	Rated current passed until the integrated protection device operates: (minutes):		N/A
	Non-rewirable plugs with integrated supplementary functions:		N/A
	Test current as specified by table 20 passed for 1h: (A)		—
	- Temperature rise of terminals and connections of supplementary functions do not exceed the limits of their standards		N/A
	- All other terminals , connections, contacts and terminals for mains do not exceed 45 K: (K)		N/A
	Separate tests made passing the current through:		—
	- the neutral contact, if any, and the adjacent phase contact (K) ..... :		N/A
	- the earthing contact, if any, and the nearest phase contact (K) ..... :		N/A
	Touchable metal parts: max. 40 K: (K)		N/A
	Touchable non-metallic parts: max. 45 K : (K)		N/A
	Temperature rise of external parts of insulating material not necessary to retain current-carrying parts and parts of earthing circuits in position: (K)		N/A
	Test current as specified by table 20 passed for 1h (A) or:		N/A
	Test current passed until the integrated protection device operates: (minutes):		N/A
	repeated with 0.95% of current: (A)		N/A

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Cl.	Requirement – Test	Result	Verdict
	Repeated with 150% of rated fuse current for 30/60 minutes: (fuse (A) / current (A) / time (minutes)		N/A
	- Temperature rise of terminals and connections do not exceed 70 K and: (K)		N/A
	- Temperature rise of contacts do not exceed 45 K: (K)		N/A
	Separate tests made passing the current through:		—
	- the neutral contact, if any, and the adjacent phase contact (K) ..... :		N/A
	- the earthing contact, if any, and the nearest phase contact (K) ..... :		N/A
	Touchable metal parts: max. 40 K: (K)		N/A
	Touchable non-metallic parts: max. 45 K : (K)		N/A
	Temperature rise of external parts of insulating material not necessary to retain current-carrying parts and parts of earthing circuits in position: (K)		N/A
19.4	Adaptors		N/A
	Adaptors tested using a test apparatus with thermo-couple on every live pin or PE-contact		N/A
19.4.1	Adaptors without interconnected supplementary functions (DIN 49437)		N/A
	Test current as specified in table 20 passed for 1 h: (A)		—
	- Temperature rise of terminals and connections do not exceed 45 K: (K)		N/A
	Separate tests made passing the current through:		—
	- the neutral contact, if any, and the adjacent phase contact (K) ..... :		N/A
	- the earthing contact, if any, and the nearest phase contact (K) ..... :		N/A
	Touchable metal parts: max. 40 K: (K)		N/A
	Touchable non-metallic parts: max. 45 K : (K)		N/A
	Temperature rise of external parts of insulating material not necessary to retain current-carrying parts and parts of earthing circuits in position: (K)		N/A
19.4.2	Adaptors with interconnected supplementary functions		N/A
	Rated current passed for 1 h (A) or:		N/A
	Rated current passed until the integrated protection device operates: (minutes):		N/A
	- Temperature rise of terminals and connections of supplementary functions do not exceed the limits of their standards		N/A

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Cl.	Requirement – Test	Result	Verdict
	- All other terminals , connections, contacts and terminals for mains do not exceed 45 K: (K)		N/A
	Separate tests made passing the current through:		—
	- the neutral contact, if any, and the adjacent phase contact (K) ..... :		N/A
	- the earthing contact, if any, and the nearest phase contact (K) ..... :		N/A
	Touchable metal parts: max. 40 K: (K)		N/A
	Touchable non-metallic parts: max. 45 K : (K)		N/A
	Temperature rise of external parts of insulating material not necessary to retain current-carrying parts and parts of earthing circuits in position: (K)		N/A
	Test current as specified by table 20 passed for 1h (A) or:		N/A
	Test current passed until the integrated protection device operates: (minutes):		N/A
	repeated with 0.95% of current: (A)		N/A
	Repeated with 150% of rated fuse current for 30/60 minutes: (fuse (A) / current (A) / time (minutes)		N/A
	- Temperature rise of terminals and connections do not exceed 70 K and: (K)		N/A
	- Temperature rise of contacts do not exceed 45 K: (K)		N/A
	Separate tests made passing the current through:		—
	- the neutral contact, if any, and the adjacent phase contact (K) ..... :		N/A
	- the earthing contact, if any, and the nearest phase contact (K) ..... :		N/A
	Touchable metal parts: max. 40 K: (K)		N/A
	Touchable non-metallic parts: max. 45 K : (K)		N/A
	Temperature rise of external parts of insulating material not necessary to retain current-carrying parts and parts of earthing circuits in position: (K)		N/A
19.5	Plug-in adaptors		N/A
	To be tested regarding their own product standards		N/A
	For tests of the attached plug part see clause 14.23		N/A
20	BREAKING CAPACITY *VDE*		N/A
	Accessories shall have adequate breaking capacity		N/A

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Cl.	Requirement – Test	Result	Verdict
	Compliance checked by testing:		N/A
	- socket-outlets;		N/A
	- plugs with pins which are not solid		N/A
	Test conditions:		—
	- 100 strokes; rate of operation ..... :		—
	- test voltage (1,1 Vn) ..... :		—
	- test current (1,25 In) (power factor 0,6) ..... :		—
	Multiple socket-outlets: test carried out on one socket-outlet of each type and current rating		N/A
	During the test: no sustained arcing occur		N/A
	After the test:		—
	- specimens show no damage impairing their further use;		N/A
	- entry holes for the pins not show any damage which may impair the safety		N/A
21	NORMAL OPERATION *VDE/TRLP*		**N/A**
	Accessories shall withstand without excessive wear or other harmful effect, the mechanical, electrical and thermal stresses occurring in normal use		N/A
	Compliance checked by testing:		—
	- socket-outlets;		N/A
	- plugs with resilient earthing socket-contacts;		N/A
	- plugs with pins which are not solid		N/A
	Test performed on:		—
	- complete shuttered socket-outlets with operations made by apparatus		N/A
	- complete shuttered socket-outlets with operations made by hand as in normal use		N/A
	Test conditions:		—
	- 10000 strokes; rate of operation ..... :		—
	- test voltage Vn (V) ..... :		—
	- test current (as specified in table 20) (A) (power factor 0,8) ..... :		—
	Test current passed:		—
	- during each insertion and withdrawal of the plug (In ≤ 16A)		N/A
	- during alternate insertion and withdrawal, the other insertion and withdrawal being made without current flowing (In > 16A)		N/A

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Cl.	Requirement – Test	Result	Verdict
	Multiple socket-outlets: test carried out on one socket-outlet of each type and current rating		N/A
	During the test: no sustained arcing occur		N/A
	After the test the specimens shall not show:		—
	- wear impairing their further use;		N/A
	- deterioration of enclosures, insulating lining or barriers;		N/A
	- damage to the entry holes for the pins, that might impair proper working;		N/A
	- loosening of electrical or mechanical connections;		N/A
	- seepage of sealing compound		N/A
	Shuttered socket-outlets: the following gauges not touch live parts when they remain under the relevant forces:		N/A
	- gauges of figure 3 applied with a force up to 20 N		N/A
	- steel gauge of figure 4 applied with a force up to 1 N		N/A
	Temperature-rise test (requirements of clause 19):		—
	Test current as required for the normal operation test, given in table 20, passed for 1 h (A) ..... :	1	—
	Temperature rise of terminals not exceed 45 K (K) ..... :		N/A
	Separate tests made passing the current through:		—
	- the neutral contact, if any, and the adjacent phase contact (K)..... :		N/A
	- the earthing contact, if any, and the nearest phase contact (K)..... :		N/A
	Force for opening shuitters not exceeding 50 N: (N)		N/A
	Socket-outlets: electric strength (sub-clause 17.2), test voltage (a.c., for 1 min):		N/A
	a) test voltage (V)..... :		N/A
	b) test voltage (V)..... :		N/A
	c) test voltage (V)..... :		N/A
	d) test voltage (V)..... :		N/A
	e) test voltage (V)..... :		N/A
	Plugs: electric strength (sub-clause 17.2), test voltage (a.c., for 1 min):		N/A
	a) test voltage (V)..... :	1500 V	N/A
	b) test voltage (V)..... :	1500 V	N/A
	c) test voltage (V)..... :		N/A
	d) test voltage (V)..... :		N/A

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Cl.	Requirement – Test	Result	Verdict
	During the test: no flashover or breakdown		N/A
	Force exerted measured in side earthing contacts not less than 60 % or 5 N (CEE 7 clause 18) after spreading for 48h	See appendix table on page 52	*N/A*
	Fixed socket-outlets: test according to 13.2		N/A
	Pins of plugs and portable socket-outlets: test according to 14.2		N/A
22	FORCE NECESSARY TO WITHDRAW THE PLUG *TRLP*		**N/A**
	Construction of accessory shall allow the easy insertion and withdrawal of the plug, and prevent the plug from working out of the socket-outlet in normal use		N/A
	Rated current (A) ..... :		—
	Number of poles ..... :		—
22.1	Verification of the maximum withdrawal force		N/A
22.1.1	Socket-outlets (multi-pin gauge):		N/A
	Maximum withdrawal force (table 16): (N) ..... :		—
	The plug not remain in the socket-outlet		N/A
22.1.2	Plugs with resilient earthing contacts (single-pin gauge):		N/A
	Maximum withdrawal force (table 16): (N)		—
	The gauge not remain in the socket-outlet		N/A
22.2	Verification of the minimum withdrawal force (single-pin gauge)		N/A
	Minimum withdrawal force (table 16): (N)		—
	The gauge remain in the socket-outlet at least 30 seconds		N/A
23	FLEXIBLE CABLES AND THEIR CONNECTION *VDE*		N/A
23.1	Plugs and portable socket-outlets provided with a cord anchorage such that the conductors are relieved from strain and that their covering is protected from abrasion	No cable connection	N/A
	Sheath of flexible cable clamped within the cord anchorage		N/A
23.2	Pull and torque test		N/A
	Storage for 1h at 45°C. Cord anchorage works properly after pull with 50 N for 30s		N/A
	Non-rewirable accessories:		N/A
	- rating of accessory ..... :		—

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Cl.	Requirement – Test	Result	Verdict
	- type of flexible cable; number of conductors and nominal cross-sectional area (mm^2) ..... :		—
	- pull (100 times) (N) ..... :		N/A
	- torque (1 min) as specified in table 18 (Nm) .... :		N/A
	After the test:		—
	Displacement ≤ 2 mm ..... :		N/A
	No break in the electrical connections		N/A
	Rewirable accessories:		N/A
	- rating of accessory ..... :		—
	- clamping screws, if any, tightened with a torque equal to 2/3 of that specified in 12.2.8 (Nm) ..... :		—
	- type of flexible cable; number of conductors and smallest nominal cross-sectional area (mm^2) as show in table 17 ..... :		—
	- pull (100 times) (N) ..... :		—
	- torque (1 min) as specified in table 18 (Nm) .... :		—
	After the test:		—
	Displacement ≤ 2 mm ..... :		N/A
	End of conductors not have moved noticeably in the terminals		N/A
	- type of flexible cable; number of conductors and largest nominal cross-sectional area (mm^2) as show in table 17 ..... :		—
	- pull (100 times) (N) ..... :		—
	- torque (1 min) as specified in table 18 (Nm) .... :		—
	After the test:		—
	Displacement ≤ 2 mm ..... :		N/A
	End of conductors not have moved noticeably in the terminals		N/A
	Rewirable accessories having rated current up to and including 16 A:		—
	Suitable for fitting with the appropriate cable as shown in table 19		N/A
	Type of flexible cable; number of conductors and nominal cross-sectional area (mm^2)..... :		—
23.3	Non-rewirable plugs and non-rewirable portable socket-outlets: provided with a flexible cable complying with IEC 227 or IEC 245		N/A
	A power cord provided with rewirable plug or rewirable portable socket-outlet must meet the same requirements		N/A

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Cl.	Requirement – Test	Result	Verdict
	Flexible cables have the same number of conductors as there are poles in the plug or socket-outlet		N/A
	Conductor connected to the earthing contact: identified by the colour combination green/yellow		N/A
23.4	Plugs and portable socket-outlets: designed that the flexible cable is protected against excessive bending		N/A
	Guards shall be of insulating material and fixed in reliable manner		N/A
	Flexing test (10.000 flexings):		N/A
	- type of flexible cable and nominal cross-sectional area (mm^2) ..... :		—
	- test current (A) ..... :		—
	- mass (N) ..... :		—
	During the test: no interruption of the test current and no short-circuit between conductors		N/A
	Voltage drop test: test current (A); voltage drop (≤ 10 mV) ..... :		N/A
	After the test: guard no separated from the body, insulation shows no sign of abrasion or wear, broken strands become no accessible		N/A
24	MECHANICAL STRENGTH		P
	Accessories, surface mounting boxes, screwed glands and flanges have adequate mechanical strength	No such accessories	N/A
24.1	Fixed socket-outlets, portable multiple socket-outlets and surface mounting boxes: impact test (apparatus shown in fig. 16, 17, 18 and 19)		N/A
	After the test: no damage, live parts no become accessible		N/A
24.2	Portable single socket-outlets and plugs: tumbling barrel test; number of falls ..... :	Test on the whole adaptor	P
	After the test:		—
	No part become detached or loosened;	113g, 500 falls	P
	Pins no become so deformed that the plug cannot be introduced into a socket-outlet and also fails to comply with the requirements of 9.1 and 10.3;		P
	Pins no turn when a torque of 0,4 Nm is applied for 1 min in each direction	Pins do not turn or loosen.	P
	Socket-outlets with shutter must be tested to cl. 21 again		P

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Cl.	Requirement – Test	Result	Verdict
24.3	Ordinary surface type socket-outlets: first fixed to a cylinder of rigid steel sheet and then fixed to a flat steel sheet		N/A
	During and after the test: no damage		N/A
24.4	Portable single socket-outlets, multiple socket-outlets and plugs (elastomeric or thermoplastic material): impact test, weight 1000 g, height 100 mm (apparatus shown in fig. 28)		P
	Specimens placed in a refrigerator at –15 °C ± 2 °C for at least 16 h		P
	After the test: no damage		P
24.5	Portable single socket-outlets and plugs (elastomeric or thermoplastic material): compression test, 300 N for 1 min, position a) and b) (apparatus shown in fig. 22)	*TRLP*	P
	After the test: no damage		P
24.6	Screwed glands of accessories other than ordinary: torque test (1 min)		N/A
	- diameter of test rod (mm) ..... :		—
	- type of material ..... :		—
	- torque (Nm) ..... :		—
	- type of material ..... :		—
	After the test: no damage of glands and enclosure of the specimens		N/A
24.7	Plug pins provided with insulating sleeves: 20000 movements, 4 N (apparatus shown in fig. 23)		N/A
	After the test: no damage of pins, insulating sleeve not have punctured or rucked up		N/A
24.8	Shuttered socket-outlets: mechanical test carried out on specimens submitted to the normal operation test according to clause 21		—
	Force applied for 1 min against the shutter of an entry hole by means of one pin ..... :		—
	Pin not come in contact with live parts		N/A
	After the test: no damage		N/A
24.9	Multiple portable socket-outlet: mechanical test		—
	Rewirable multiple socket-outlets: flexible cable of the smallest cross-sectional area specified in table 3 ..... :		—
	8 falls on concrete floor with the specimens arranged as shown in figure 24		N/A
	After the test: no damage, no part have become detached or loosened		N/A
	Accessories other than ordinary submitted again to the test as specified in 16.2		N/A

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Cl.	Requirement – Test	Result	Verdict
	Socket-outlets with shutter must be tested to cl. 21 again		N/A
24.10	Plugs: pull test to verify the fixation of pins in the body of the plug (new specimens)		P
	Maximum withdrawal force (table 16) applied for 1 min on each pin in turn, after the specimen has been placed at 70 °C for 1 h ..... :		—
	After the test: displacement of pins in the body of the plug ≤ 1 mm ..... :	0,2mm	P
24.11	Barriers of portable socket-outlets having means for suspension on a wall:		N/A
	Force applied for 10 s against the barrier by means of a cylindrical steel rod (1,5 times the maximum plug withdrawal force specified in table 16) (N) ..... :		—
	Rod not pierce the barrier		N/A
24.12	Portable socket-outlets having means for suspension on a wall (pull test):		N/A
	Pull applied to the supply flexible cable for 10 s (force prescribed in 23.2 for checking the flexible cable anchorage) (N) ..... :		—
	During the test: no break of the means for suspension on a wall		N/A
24.13	Portable socket-outlets having means for suspension on a wall (pull test):		N/A
	Pull applied to the engagement face of the socket-outlet for 10 s (maximum withdrawal force specified, for the corresponding plug, in table 16) (N) ..... :		—
	During the test: no break of the means for suspension on a wall		N/A
24.14	Force necessary for covers or cover-plates to come off or not to come off (accessibility with the test finger to live parts)		N/A
24.14.1	Verification of the non-removal of covers or cover-plates		N/A
	Force applied for 1 min in direction perpendicular to the mounting surface ..... :		—
	Covers or cover-plates not come off		N/A
	Test repeated on new specimens with a sheet of hard material, 1 mm ± 0,1 mm thick, fitted around the supporting frame (fig. 8)		N/A
	Covers or cover-plates not come off		N/A
	After the test: no damage		N/A
24.14.2	Verification of the removal of covers or cover-plates		N/A
	Force not exceeding 120 N applied 10 times in direction perpendicular to the mounting / supporting surface: covers or cover-plates come off		N/A

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Cl.	Requirement – Test	Result	Verdict
	Test repeated on new specimens with a sheet of hard material, 1 mm ± 0,1 mm thick, fitted around the supporting frame (fig. 8)		N/A
	Covers or cover-plates come off		N/A
	After the test: no damage		N/A
24.15	Force necessary for covers or cover-plates to come off or not to come off (accessibility with the test finger to non-earthed metal parts separated from live parts by creepage distances and clearances according to table 23)		N/A
24.15.1	Verification of the non-removal of covers or cover-plates		N/A
	Force applied for 1 min in direction perpendicular to the mounting surface ..... :		—
	Covers or cover-plates not come off		N/A
	Test repeated on new specimens with a sheet of hard material, 1 mm ± 0,1 mm thick, fitted around the supporting frame (fig. 8)		N/A
	Covers or cover-plates not come off		N/A
	After the test: no damage		N/A
24.15.2	Verification of the removal of covers or cover-plates		N/A
	Force not exceeding 120 N applied 10 times in direction perpendicular to the mounting / supporting surface: covers or cover-plates come off		N/A
	Test repeated on new specimens with a sheet of hard material, 1 mm ± 0,1 mm thick, fitted around the supporting frame (fig. 8)		N/A
	Covers or cover-plates come off		N/A
	After the test: no damage		N/A
24.16	Force necessary for covers or cover-plates to come off or not to come off (accessibility to insulating parts, earthed metal parts, live parts of SELV ≤ 25 V a.c. or metal parts separated from live parts by creepage distances twice those according to table 23)		N/A
24.16.1	Verification of the non-removal of covers or cover-plates		N/A
	Force 10 N applied for 1 min in direction perpendicular to the mounting surface: covers or cover-plates not come off		N/A
	Test repeated on new specimens with a sheet of hard material, 1 mm ± 0,1 mm thick, fitted around the supporting frame (fig. 8)		N/A
	Covers or cover-plates not come off		N/A
	After the test: no damage		N/A
24.16.2	Verification of the removal of covers or cover-plates		N/A

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Cl.	Requirement – Test	Result	Verdict
	Force not exceeding 120 N applied 10 times in direction perpendicular to the mounting / supporting surface: covers or cover-plates come off		N/A
	Test repeated on new specimens with a sheet of hard material, 1 mm ± 0,1 mm thick, fitted around the supporting frame (fig. 8)		N/A
	Covers or cover-plates come off		N/A
	After the test: no damage		N/A
24.17	Test with gauge of figure 7 applied according to figure 9 for verification of the outline of covers or cover-plates: distances between face C of gauge and outline of side under test, not decrease ..... :		N/A
24.18	Test with gauge according to figure 5 applied as shown in figure 11 (1 N): gauge not enter more than 1mm ..... :		N/A
24.19	While pressure test on flange with apparatus according to figure 37b (20N, 1 min., 25°C) the portable socket-outlet meet requirements of its dimension-sheet		N/A
24.20	Springs or other mechanism of hinged covers of socket-outlets having protection class ≥IP44 are not loosened or fail after hinge opened 5000 for times		N/A
24.21	Cover plates of socket-outlets do not work loose or impair further use after pull test (30s, 50N)		N/A
25	RESISTANCE TO HEAT		P
25.1	Fixed and portable accessories: heating cabinet 100 °C for 1 h		—
	During the test: no change impairing their further use and sealing compound, if any, not flow		P
	After the test: markings still legible		P
25.2	Parts of insulating material of fixed socket-outlets necessary to retain current-carrying parts and parts of the earthing circuit in position, and parts of the front surface zone of 2 mm width surrounding the phase and neutral pin entry holes: ball-pressure test (1 h, 125 °C)		P
	After the test: diameter of impression ≤ 2 mm ..... :	Pin holder: 1,0mm	P
25.3	For parts not necessary to retain current-carrying parts and parts of the earthing circuit in position, even though in contact with them: ball-pressure test (1 h)		P
	Test temperature (°C) ..... :	70	—
	After the test: diameter of impression ≤ 2 mm ..... :	Enclosure: 0,5 mm	P
25.4	Portable accessories: compression test (20 N, 1 h, 80 °C) by means of the apparatus shown in figure 28		P
	After the test: no damage		P

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Cl.	Requirement – Test	Result	Verdict
26	SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS		P
26.1	Connections withstand mechanical stresses		P
	Thread-forming or thread-cutting screws used only if supplied together with the piece in which they are intended to be inserted	No such part	N/A
	Thread-cutting screws intended to be used during installation: captive		N/A
	Screws and nuts which transmit contact pressure: in engagement with a metal thread		N/A
	Test:		—
	- 10 times for screws in engagement with a thread of insulating material and for screws of insulating material		N/A
	- 5 times for all other cases		N/A
	- terminals: screw diameter (mm); torque (Nm); times ..... :		—
	- earthing terminals: screw diameter (mm); torque (Nm); times ..... :		—
	- assembly screws: screw diameter (mm); torque (Nm); times ..... :		—
	- cord anchorage: screw diameter (mm); torque (Nm); times ..... :		—
	- other screws or nuts: diameter (mm); torque (Nm); times ..... :		—
	During the test: no damage impairing the further use of the screwed connectons		N/A
26.2	Screws in engagement with a thread of insulating material: correct introduction into the screw hole or nut ensured		N/A
26.3	Contact pressure: not transmitted through insulating material other than ceramic, pure mica or other material no less suitable unless there is sufficient resiliency in metallic parts		P
	Connections made by insulation piercing of tinsel cord reliable		N/A
26.4	Screws and rivets locked against loosening and/or turning		P
26.5	Current-carrying parts of metal having mechanical strength, electrical conductivity and resistance to corrosion adequate:		P
	- copper;		N/A
	- alloy with at least 58 % copper for parts made from cold-rolled sheet or with at least 50 % copper for other parts;	>64.5 %	P
	- stainless steel with at least 13 % chromium and not more than 0,09 % carbon		N/A

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Cl.	Requirement – Test	Result	Verdict
	- steel with electroplated coating of zinc (ISO 2081), with thickness of at least:		N/A
	5 µm, service condition ISO no. 1, for ordinary equipment		N/A
	12 µm, service condition ISO no. 2, for splash-proof equipment		N/A
	25 µm, service condition ISO no. 3, for jet-proof equipment		N/A
	- steel with electroplated coating of nickel and chromium (ISO 1456), with thickness of at least:		N/A
	20 µm, service condition ISO no. 2, for ordinary equipment		N/A
	30 µm, service condition ISO no. 3, for splash-proof equipment		N/A
	40 µm, service condition ISO no. 4, for jet-proof equipment		N/A
	- steel with electroplated coating of tin (ISO 2093), with thickness of at least:		N/A
	12 µm, service condition ISO no. 2, for ordinary equipment		N/A
	20 µm, service condition ISO no. 3, for splash-proof equipment		N/A
	30 µm, service condition ISO no. 4, for jet-proof equipment		N/A
	Current-carrying parts subjected to mechanical wear: not of steel with electroplated coating		P
	Metals having a great difference of electrochemical potential: not used in contact with each other		N/A
26.6	Contacts subjected to a sliding action: of metal resistant to corrosion		P
26.7	Thread-forming screws and thread-cutting screws not used for the connection of current-carrying parts		N/A
	Thread-forming screws and thread-cutting screws used to provide earthing connection: not necessary to disturb the connection and at least two screws are used for each connection		N/A
26.8	For internal connection other than screw terminal and screwless terminal used in fixed and portable accessories, these connections must be welded, soldered, crimped or other reliable connection method.		N/A
27	CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH SEALING COMPOUND *TRLP*		P
27.1	Creepage distances, clearances and distances through sealing compound no less than the values shown in table 23		P

DIN VDE 0620-2-1: 2013			
Cl.	Requirement – Test	Result	Verdict
	Creepage distances (cr):		P
	1) between live parts of different polarity ≥ 4(3) mm ..... :	Measured: 13,6mm	P
	2) between live parts and:		—
	- accessible insulating and earthed metal parts ≥ 3 mm ..... :		N/A
	- parts of earthing circuit ≥ 3 mm ..... :		N/A
	- metal frames supporting the base of flush-type socket-outlets ≥ 3 mm ..... :		N/A
	- screws or devices for fixing bases, covers or cover-plates of fixed socket-outlets ≥ 3 mm ..... :		N/A
	- external assembly screws, other than screws which are on the engagement face of plugs and are isolated from the earthing circuit ≥ 3 mm ..... :		N/A
	3) between pins of plugs and metal parts connected to them, when fully engaged, and a socket-outlet of the same system having accessible unearthed metal parts ≥ 6(4,5) mm .... :		N/A
	4) between the accessible unearthed metal parts of a socket-outlet and a fully engaged plug of the same system having pins and metal parts connected to them ≥ 6(4,5) mm ..... :		N/A
	5) between live parts of a socket-outlet (without a plug) and its accessible unearthed metal parts ≥ 6(4,5) mm ..... :		N/A
	Clearances (cl):		P
	6) between live parts of different polarity ≥ 3 mm . :	Measured: 13,6mm	P
	7) between live parts and:		—
	- accessible insulating and earthed metal parts not mentioned under 8 and 9 ≥ 3 mm ..... :		N/A
	- parts of earthing circuit ≥ 3 mm ..... :		N/A
	- metal frames supporting the base of flush-type socket-outlets ≥ 3 mm ..... :		N/A
	- screws or devices for fixing bases, covers or cover-plates of fixed socket-outlets ≥ 3 mm ..... :		N/A
	- external assembly screws, other than screws which are on the engagement face of plugs and are isolated from the earthing circuit ≥ 3 mm ..... :		N/A
	8) between live parts and:		—
	- exclusively earthed metal boxes ≥ 3 mm ..... :		N/A
	- unearthed metal boxes, without insulating lining ≥ 4,5 mm ..... :		N/A
	accessible unearthed or functional earthed metal parts of socket-outlet and plugs		N/A

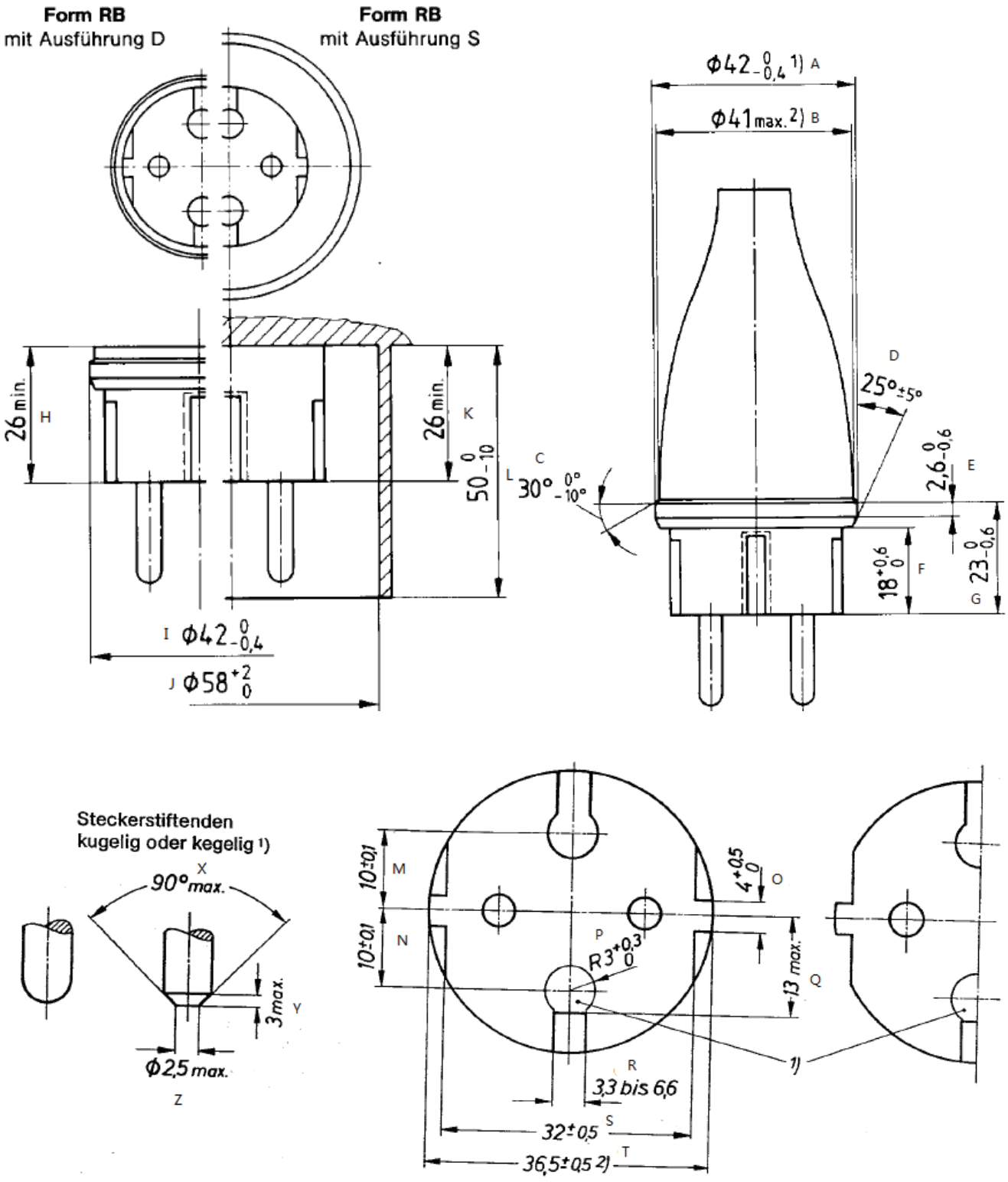
DIN VDE 0620-2-1: 2013			
Cl.	Requirement – Test	Result	Verdict
	9) between live parts and the surfaces on which the base of a socket-outlet for surface mounting is mounted ≥ 6 mm..... :		N/A
	10) between live parts and the bottom of any conductor recess, if any, in the base of a socket-outlet for surface mounting ≥ 3 mm..... :		N/A
	Distance through insulating sealing compound:		N/A
	11) between live parts covered with at least 2 mm of sealing compound and the surfaces on which the base of a socket-outlet for surface mounting is mounted ≥ 4(3) mm..... :		N/A
	12) between live parts covered with at least 2 mm of sealing compound and the bottom of any conductor recess, if any, in the base of a socket-outlet for surface mounting ≥ 2,5 mm..... :		N/A
27.2	Insulating sealing compound: not protrude above the edge of the cavity in which it is contained		N/A
27.3	Ordinary surface-type socket-outlets: no bare current-carrying strips at the back		N/A
28	RESISTANCE OF INSULATING MATERIAL TO ABNORMAL HEAT, TO FIRE AND TO TRACKING		P
28.1	Resistance to abnormal heat and to fire		P
28.1.1	Glow-wire test		P
	For parts of fixed accessories necessary to retain current-carrying parts and parts of the earthing circuit in position: test temperature 850 °C		N/A
	No visible flame and no sustained glowing		N/A
	Flame and glowing extinguish within 30 s ..... :		N/A
	No ignition of the tissue paper		N/A
	For parts of fixed accessories needed to retain the earth terminal in position in a box: test temperature 650 °C		N/A
	No visible flame and no sustained glowing		N/A
	Flame and glowing extinguish within 30 s ..... :		N/A
	No ignition of the tissue paper		N/A
	For parts of portable accessories necessary to retain current-carrying parts and parts of the earthing circuit in position: test temperature 750 °C		P
	No visible flame and no sustained glowing	Pin holder	P
	Flame and glowing extinguish within 30 s ..... :		P
	No ignition of the tissue paper		P
	For parts not necessary to retain current-carrying parts and parts of the earthing circuit in position, even though in contact with them: test temperature 650 °C		P
	No visible flame and no sustained glowing	Enclosure	P

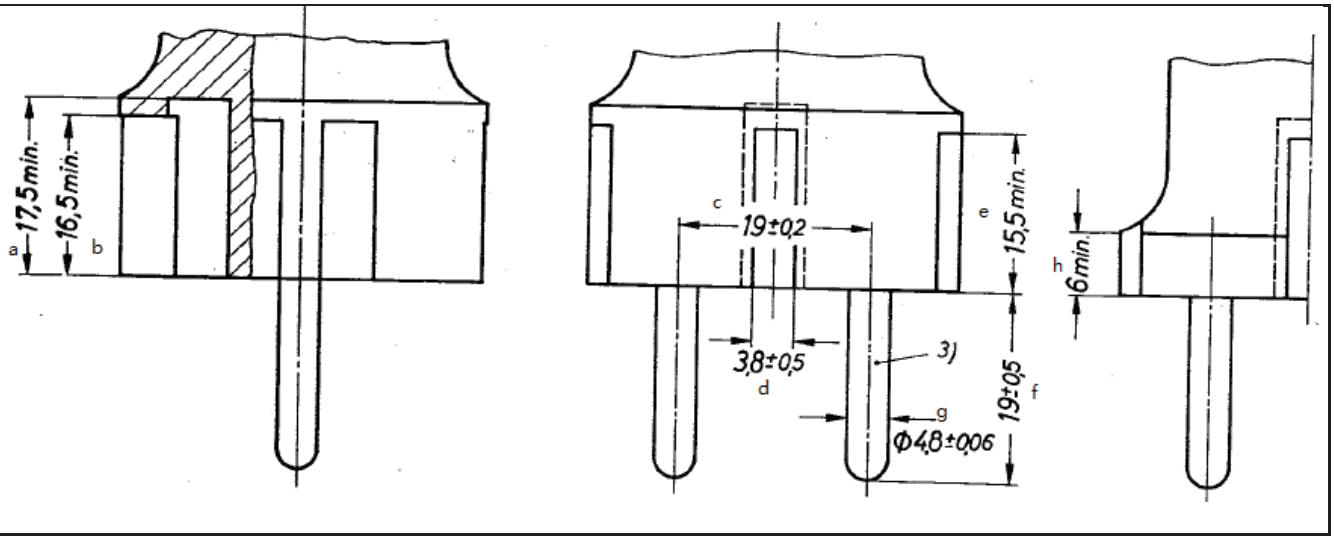
DIN VDE 0620-2-1: 2013			
Cl.	Requirement – Test	Result	Verdict
	Flame and glowing extinguish within 30 s ..... :		P
	No ignition of the tissue paper	No ignition	P
28.1.2	Plugs with pins provided with insulating sleeves:		N/A
	Test temperature maintained for 3 h by means of the apparatus shown in figure 26 ..... :		—
	Impact test according to sub-clause 30.4 (mass 100 g, height 100 mm, 4 impacts): no cracks of the insulating sleeves		N/A
28.2	Resistance to tracking		P
	Parts of insulating material retaining live parts in position of accessories other than ordinary: test voltage 175 V, 50 drops, solution A of IEC 112		P
	No flashover or breakdown		P
29	RESISTANCE TO RUSTING		N/A
	Ferrous parts protected against rusting	No such parts	N/A
	No signs of rust after 10 min in carbon tetrachloride, trichloroethane or equivalent degreasing agent, 10 min 10 % solution of ammonium chloride, 10 min in a box with air saturated with moisture and 10 min at 100 °C		N/A
30	ADDITIONAL TESTS ON PINS PROVIDED WITH INSULATING SLEEVES		N/A
30.1	Pressure test at high temperature		N/A
	Apparatus shown in figure 29, with the test specimen in position, maintained for 2 h at 200 °C. Force applied through the blade: 2,5 N		N/A
	Thickness of insulation measured: before the test (mm); after the test (mm) ..... :		—
	Thickness within the area of impression ≥ 50 % of the thickness measured before the test: percent value (%) ..... :		N/A
30.2	Static damp heat test		N/A
	Set of 3 specimens submitted to two damp heat cycles in accordance with IEC 68-2-30		N/A
	After the test:		N/A
	Insulation resistance and electric strength test (clause 17)		N/A
	Abrasion test (sub-clause 24.7)		N/A
30.3	Test at low temperature		N/A
	Set of 3 specimens maintained at –15 °C ± 2 °C for 24 h		N/A
	After the test:		—

DIN VDE 0620-2-1: 2013			
Cl.	Requirement – Test	Result	Verdict
	Insulation resistance and electric strength test (clause 17)		N/A
	Abrasion test (sub-clause 24.7)		N/A
30.4	Impact test at low temperature		N/A
	Specimens maintained at –15 °C ± 2 °C for 24 h subjected to 4 impacts (mass 100 g, height 100 mm) by means of the apparatus shown in figure 30 rotating the specimen through 90° between impacts		N/A
	After the test: no crack of the insulating sleeves		N/A

Standard sheet

DIN 49406 Teil 2 for Plug





Measured dimension record (mm)

Code	Measured	Required	Code	Measured	Required
A	41.7	$42^{0}_{-0.4}$	P	3.3	$R3^{+0.3}_{0}$
B	39.2	41_{max}	Q	12.5	13 max
C	29	$30^{\circ}{}^{0^{\circ}}_{-10^{\circ}}$	R	4.0	3.3~6.6
D	23	25°±5°	S	31.64	32±0.5
E	2.1	$2.6^{0}_{-0.6}$	T	36.3	36.5±0.5
F	18.4	$18^{+0.6}_{0}$	X	-	90°max
G	26.5	$23^{0}_{-0.6}$	Y	-	3max
H	41.7	26_{min}	Z	-	Ø2.5max
I	-	$42^{0}_{-0.4}$	a	18.24	17.5min
J	-	58^{+2}_{0}	b	16.6	16.5min
K	-	26_{min}	c	18.96	19±0.2
L	-	50^{0}_{-10}	d	3.7	3.8±0.5
M	10.4	10±0.1	e	18.9	19±0.5
N	10.4	10±0.1	f	4.8	Ø4.8±0.06
O	4.2	$4^{+0.5}_{0}$	g	-	6min
			h	16.48	15.5min

Partially of BS 1363-1: part 1: 1995 + A4: 2012			
Clause	Requirement – Test	Result – Remark	Verdict
12	Construction of Plugs **For UK plug models: RKP-UKxxxyyyyDP-5**		P
12.1	The disposition of the pins shall be shown as figure 4.	The dispositions of the pins were shown as specified.	P
12.2	Pin and sleeve dimensions, body outline were checked according to figure 4 of BS1363: part 1.	The outline of the plug did not exceed the specified dimensions at a distance of 8.0mm from the engagement surface. (limit: >6.35mm) The measured dimensions of item shown in fig. 4 were found within the specified limits.	P
	The plug portion should enter the gauge fully with a force less than 10N was applied to the centre of the sample at right angle.	Sample was entered into the gauge completely.	P
12.3	No part of a line or neutral pin shall be less than 9,5mm from the periphery of the plug measured along the engagement surface.	10.0mm	P
12.9	Plug pins were constructed of brass	Complied.	P
12.9.1	Exposed surface of plug pins were smooth and free from burrs or sharp edges and other irregularities, which could cause damage or excessive wear to sockets or shutters.	Complied.	P
12.9.4	The adaptor plug pins were tested as specified in the standard.	Complied. After being subjected to a force of 1100N for L, N pin, 400N for ISOD pin, the pin portion could fit the relevant gauge.	P
12.9.6	Each pin of the adaptor was subjected to a torque of 1Nm for 60s as specified in the standard.	Complied. After the test, the pin portion could fit the relevant gauge.	P
12.11	The adaptors were tested as specified in the standard. After being placed in an oven at 70°C for 1 hour, each pin of the samples was subjected for 60 sec. to a pull of 100N in the oven.	Complied. After the above test, no plug pin was detached and the plug pins could fit the relevant gauge.	P
12.12	The degree of flexibility of mounting of the plug pins was checked according to 12.12.1	Measured value: Max. 1° (test on each sources of enclosure, max. value measured) (limit: Max. 3° 30').	P
12.16	Line and neutral plug pin shall be fitted with insulating sleeves. The dimensions of the pin and sleeve shall fall within the specific limit.	Complied. Both line and neutral pins were fitted with insulating sleeves.	P
12.17.1	Plug pin sleeve shall be compliance with 12.17.2 to 12.17.4	Complied.	P
12.17.2	Electric strength test applied between the metal part of plug pin and the sleeve (1250±30V)	Complied. No breakdown or flashover occurs.	P

Partially of BS 1363-1: part 1: 1995 + A4: 2012			
Clause	Requirement – Test	Result – Remark	Verdict
12.17.3	Abrasion test for plug pin sleeve The plug pin sleeves were subjected to 20000 movements of abrasion as specified in the standard.	Complied. After the test, the sleeves showed no damage that impaired further use and could satisfy the electric strength test in 12.17. 2	P
12.17.4	The plug pins with sleeves were placed in a heating cabinet at 200°C and tested according to the standard for 120min. Arrange the test as Figure 10 of BS 1363-1.	After the test, the thickness of sleeves of plug pins (Line and neutral pins) remaining at the impression point reduced by max. 2.5% less than 50%.	P

Additional requirement for the solid insulated shutter opening device (ISOD) according to Clause 12 of BS 1363: part 1: 1995 + A4: 2012			
12.2	Plug fitted with an ISOD shall comply with all the dimensions specified in Fig. 4a with exception of the width of the ISOD, which should be 4,05mm max. and 3,90mm min. and its height which should be 8,05mm max. and 7,75mm min.	See measured dimensions in Table 3	P
12.9.4.3	Solid insulated opening device were tested as specified in the standard.	After being subjected to a forced of 400N, the pin could fit the relevant gauge.	P
12.9.5.2	Plugs with ISOD shall not cause excessive wear to socket contacts or shutters of sockets-outlets The test use a separate sample of plug with ISOD for each type of socket-outlet, with each sample being inserted into and withdrawn from the socket-outlet at a rate of 6 insertions and 6 withdrawals per minute, the speed of travel of the plug being approximately 150mm/s	After 5000 insertions and withdrawals completed, socket outlets show no damage that would impair further use. Plugs show no damage and suit for the dimensional requirements according to clause 12.2. The shutters of the socket-outlets operate satisfactorily and socket contacts safety shielded.	P
22.2	**Resistance to heat**		P
	Ball pressure test according to BS EN 60695-10-2:2003 on parts of insulation material necessary for the function or supporting parts of the plug.	Test performed on plug portion (including ISOD) for 125°C ball pressure test at the material of plug portion which maintains live part in position. Measured after 1 hour. Max. 1.4mm measured after 1 hour. Limit: 2mm	P
23	**Resistance of insulating material to abnormal heat and fire**		P
	Insulating material not unduly affected by abnormal heat and by fire	Glow wire test performed on enclosure with: 650°C. All enclosure material have been considered.	P

Partially of BS 1363-1: part 1: 1995 + A4: 2012			
Clause	Requirement – Test	Result – Remark	Verdict
	Insulating material not unduly affected by abnormal heat and by fire	Glow wire test performed on plug portion (including ISOD) with: 750°C. All enclosure material have been considered.	P

Plug portion dimensions					
Linear Dimensions (mm)		Measurement		Limit	
*A		24.45		25.370 max.	
*B		32.19		34.6 max.	
*C		Fit the testing gauge		15 min.	
D		10.0		9.5 min.	
*E	L -> E	11.06		11.05 - 11.18	
	N -> E	11.06			
*F	L -> E	22.30		22.10 - 22.36	
	N -> E	22.30			
G1		6.25		6.22 - 6.48	
G2		6.25		6.22 - 6.48	
H		3.95		3.90 - 4.05	
*I		22.63		22.23 - 23.23	
J		1.56		1.35 - 1.85	
K		7.98		7.80 - 8.05	7.75 - 8.05 For ISOD
L	line	9.26		9.5 max.	
	neutral	9.28			
M	line	8.61		9.2 max.	
	neutral	8.57			
N (sleeve)	line	4.00		3.90 - 4.05	
	neutral	4.00			
O	line	17.87		17.20 - 18.20	
	neutral	17.85			
P	Line	1.46		1.35 - 1.85	
	neutral	1.48			
	earth	1.51			
Q (metal)	line	3.95		3.90 - 4.05	
	neutral	3.95			
	earth	3.95			
R	Line	1.6		1.2 - 2.0	
	neutral	1.6			
	earth	1.70			
S	line	1.71		1.35 - 1.85	

BS 1363-1 a (Plug portion acceptance test)

Partially of BS 1363-1: part 1: 1995 + A4: 2012			
Clause	Requirement – Test	Result – Remark	Verdict

	neutral	1.71			

*Remark: all these dimensions were checked by the relevant gauge (based on BS1363: Part 1:1995 Figure 5)

Angular Dimensions (°)		Measurement		Limits	
θ1		58.0°		58° - 62°	
θ2	line	68.0°		60° - 80°	
	neutral	68.0°			
	earth	74.0°			
θ3	line	61.0°		58° - 62°	
	neutral	61.0°			

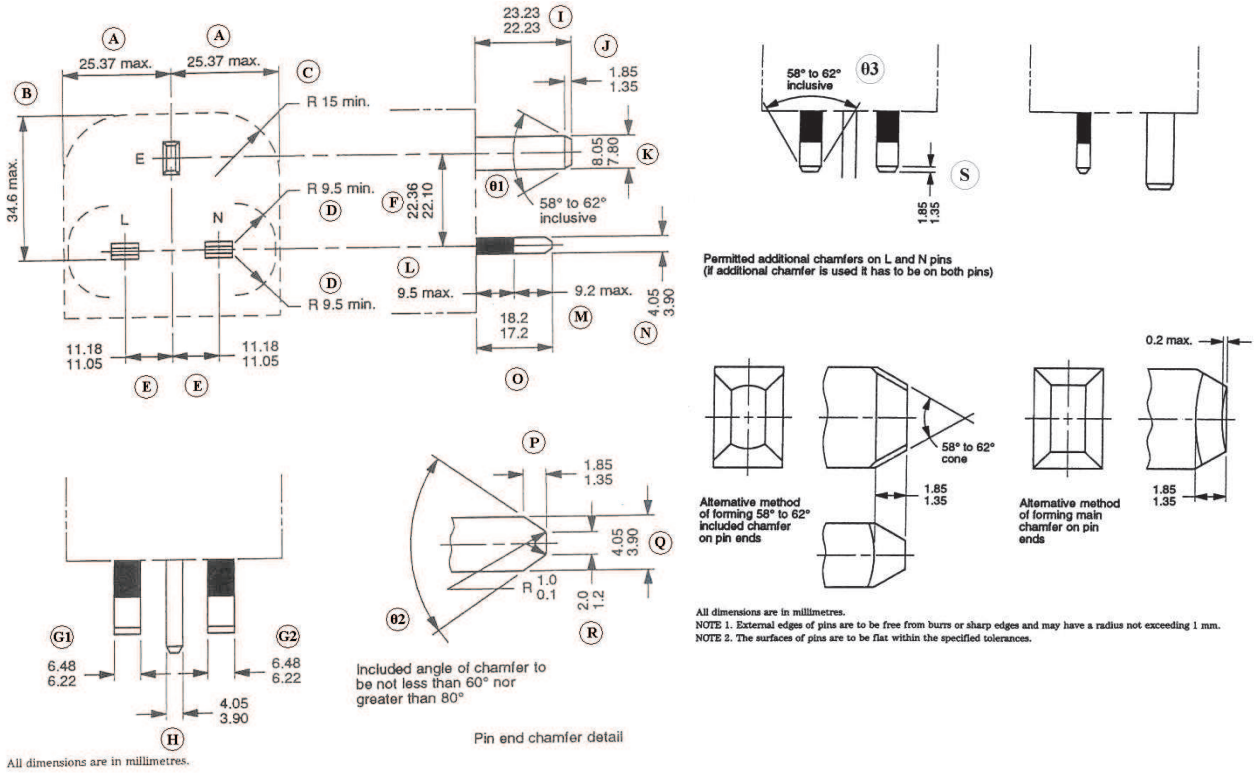


Figure 4a of BS 1363: Part 1

* Remark: all these dimensions were checked by the relevant gauge (based on BS1363: Part 1:1995 Figure 5)

Partially of BS 1363-1: part 1: 1995 + A4: 2012			
Clause	Requirement – Test	Result – Remark	Verdict

Plug Portion Dimensions (Solid insulated shutter opening device ISOD)

Linear Dimensions (mm)		SAMPLE A	Limit
T		7.98	7.75 - 8.05
U		3.95	3.90 - 4.05
V	E -> L	0.01	0.15 max
	E -> N	0.01	0.15 max
W	E -> top	0.01	0.15 max
	E -> L & N	0.01	0.15 max

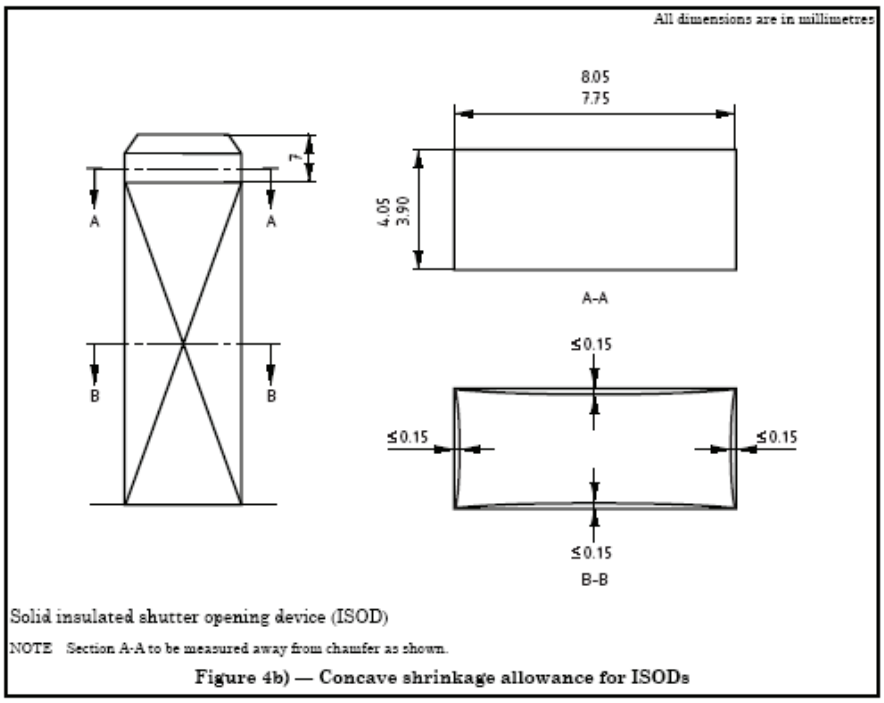


Figure 4b) — Concave shrinkage allowance for ISODs

Figure 4b of BS 1363: Part 1

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Partially of BS 1363-1: part 1: 1995 + A4: 2012			
Clause	Requirement – Test	Result – Remark	Verdict
12	Construction of Plugs **For UK plug models: RKPO-UKxxxyyyyDP-2**		P
12.1	The disposition of the pins shall be shown as figure 4.	The dispositions of the pins were shown as specified.	P
12.2	Pin and sleeve dimensions, body outline were checked according to figure 4 of BS1363: part 1.	The outline of the plug did not exceed the specified dimensions at a distance of 6.9mm from the engagement surface. (limit: >6.35mm) The measured dimensions of item shown in fig. 4 were found within the specified limits.	P
	The plug portion should enter the gauge fully with a force less than 10N was applied to the centre of the sample at right angle.	Sample was entered into the gauge completely.	P
12.3	No part of a line or neutral pin shall be less than 9,5mm from the periphery of the plug measured along the engagement surface.	10.0mm	P
12.9	Plug pins were constructed of brass	Complied.	P
12.9.1	Exposed surface of plug pins were smooth and free from burrs or sharp edges and other irregularities, which could cause damage or excessive wear to sockets or shutters.	Complied.	P
12.9.4	The adaptor plug pins were tested as specified in the standard.	Complied. After being subjected to a force of 1100N for L, N pin, 400N for ISOD pin, the pin portion could fit the relevant gauge.	P
12.9.6	Each pin of the adaptor was subjected to a torque of 1Nm for 60s as specified in the standard.	Complied. After the test, the pin portion could fit the relevant gauge.	P
12.11	The adaptors were tested as specified in the standard. After being placed in an oven at 70°C for 1 hour, each pin of the samples was subjected for 60 sec. to a pull of 100N in the oven.	Complied. After the above test, no plug pin was detached and the plug pins could fit the relevant gauge.	P
12.12	The degree of flexibility of mounting of the plug pins was checked according to 12.12.1	Measured value: Max. 1° (test on each sources of enclosure, max. value measured) (limit: Max. 3° 30').	P
12.16	Line and neutral plug pin shall be fitted with insulating sleeves. The dimensions of the pin and sleeve shall fall within the specific limit.	Complied. Both line and neutral pins were fitted with insulating sleeves.	P
12.17.1	Plug pin sleeve shall be compliance with 12.17.2 to 12.17.4	Complied.	P

Partially of BS 1363-1: part 1: 1995 + A4: 2012			
Clause	Requirement – Test	Result – Remark	Verdict
12.17.2	Electric strength test applied between the metal part of plug pin and the sleeve (1250±30V)	Complied. No breakdown or flashover occurs.	P
12.17.3	Abrasion test for plug pin sleeve The plug pin sleeves were subjected to 20000 movements of abrasion as specified in the standard.	Complied. After the test, the sleeves showed no damage that impaired further use and could satisfy the electric strength test in 12.17. 2	P
12.17.4	The plug pins with sleeves were placed in a heating cabinet at 200°C and tested according to the standard for 120min. Arrange the test as Figure 10 of BS 1363-1.	After the test, the thickness of sleeves of plug pins (Line and neutral pins) remaining at the impression point reduced by max. 2.5% less than 50%.	P

Additional requirement for the solid insulated shutter opening device (ISOD) according to Clause 12 of BS 1363: part 1: 1995 + A4: 2012			
12.2	Plug fitted with an ISOD shall comply with all the dimensions specified in Fig. 4a with exception of the width of the ISOD, which should be 4,05mm max. and 3,90mm min. and its height which should be 8,05mm max. and 7,75mm min.	See measured dimensions in Table 3	P
12.9.4.3	Solid insulated opening device were tested as specified in the standard.	After being subjected to a forced of 400N, the pin could fit the relevant gauge.	P
12.9.5.2	Plugs with ISOD shall not cause excessive wear to socket contacts or shutters of sockets-outlets The test use a separate sample of plug with ISOD for each type of socket-outlet, with each sample being inserted into and withdrawn from the socket-outlet at a rate of 6 insertions and 6 withdrawals per minute, the speed of travel of the plug being approximately 150mm/s	After 5000 insertions and withdrawals completed, socket outlets show no damage that would impair further use. Plugs show no damage and suit for the dimensional requirements according to clause 12.2. The shutters of the socket-outlets operate satisfactorily and socket contacts safety shielded.	P
22.2	**Resistance to heat**		P
	Ball pressure test according to BS EN 60695-10-2:2003 on parts of insulation material necessary for the function or supporting parts of the plug.	Test performed on plug portion (including ISOD) for 125°C ball pressure test at the material of plug portion which maintains live part in position. Measured after 1 hour. Max. 1.1mm measured after 1 hour. Limit: 2mm	P

Partially of BS 1363-1: part 1: 1995 + A4: 2012			
Clause	Requirement – Test	Result – Remark	Verdict
23	**Resistance of insulating material to abnormal heat and fire**		P
	Insulating material not unduly affected by abnormal heat and by fire	Glow wire test performed on enclosure with: 650°C. All enclosure material have been considered.	P
	Insulating material not unduly affected by abnormal heat and by fire	Glow wire test performed on plug portion (including ISOD) with: 750°C. All enclosure material have been considered.	P

Plug portion dimensions

Linear Dimensions (mm)		Measurement		Limit	
*A		25.3		25.370 max.	
*B		33.2		34.6 max.	
*C		Fit the testing gauge		15 min.	
D		10.3		9.5 min.	
*E	L -> E	11.18		11.05 - 11.18	
	N -> E	11.18			
*F	L -> E	22.15		22.10 - 22.36	
	N -> E	22.17			
G1		6.25		6.22 - 6.48	
G2		6.26		6.22 - 6.48	
H		3.98		3.90 - 4.05	
*I		22.72		22.23 - 23.23	
J		1.75		1.35 - 1.85	
K		7.91		7.80 - 8.05	7.75 - 8.05 For ISOD
L	line	9.43		9.5 max.	
	neutral	9.38			
M	line	8.3		9.2 max.	
	neutral	8.3			
N (sleeve)	line	3.98		3.90 - 4.05	
	neutral	3.97			
O	line	17.74		17.20 - 18.20	
	neutral	17.75			
P	Line	1.59		1.35 - 1.85	
	neutral	1.61			
	earth	1.73			
Q (metal)	line	3.96		3.90 - 4.05	
	neutral	3.95			

BS 1363-1 a (Plug portion acceptance test)

Partially of BS 1363-1: part 1: 1995 + A4: 2012			
Clause	Requirement – Test	Result – Remark	Verdict

	earth	3.97			
R	Line	1.55		1.2 - 2.0	
	neutral	1.58			
	earth	1.79			
S	line	1.56		1.35 - 1.85	
	neutral	1.61			

*Remark: all these dimensions were checked by the relevant gauge (based on BS1363: Part 1:1995 Figure 5)

Angular Dimensions (°)		Measurement		Limits	
θ1		61.0°		58° - 62°	
θ2	line	70.0°		60° - 80°	
	neutral	70.0°			
	earth	60.0°			
θ3	line	59.0°		58° - 62°	
	neutral	59.0°			

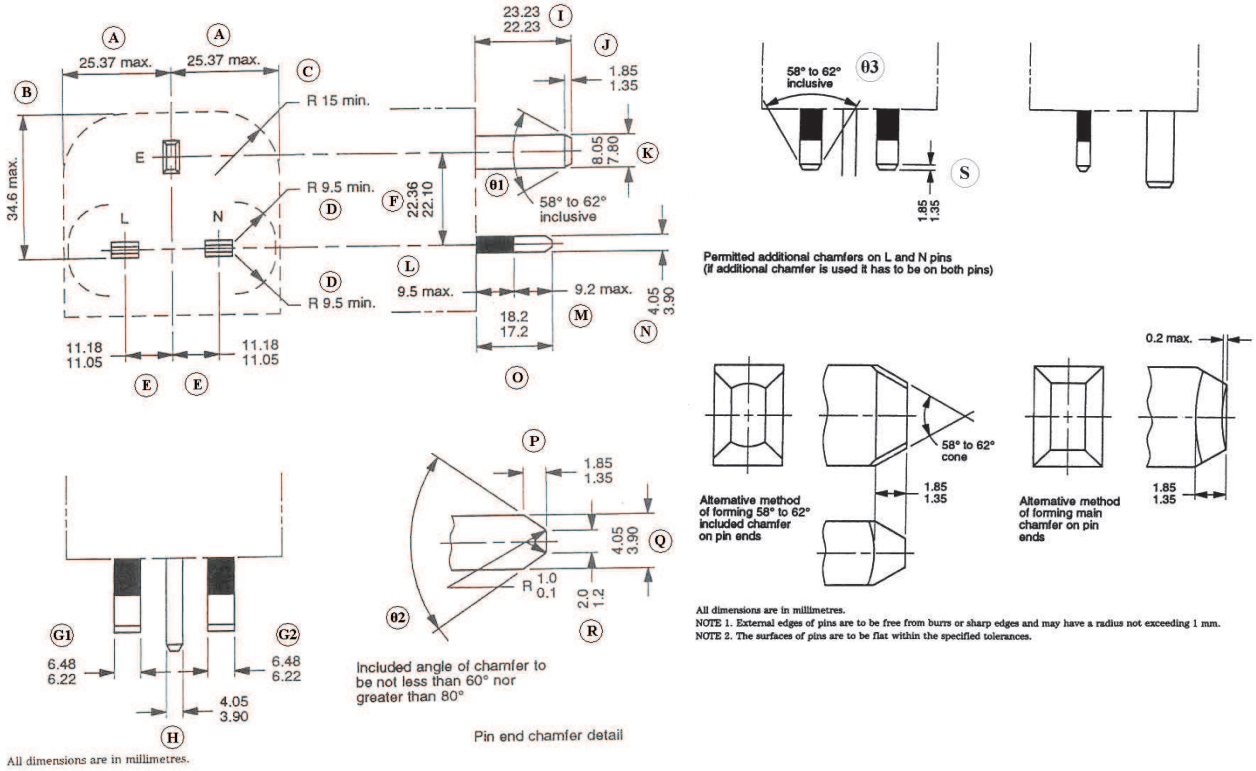


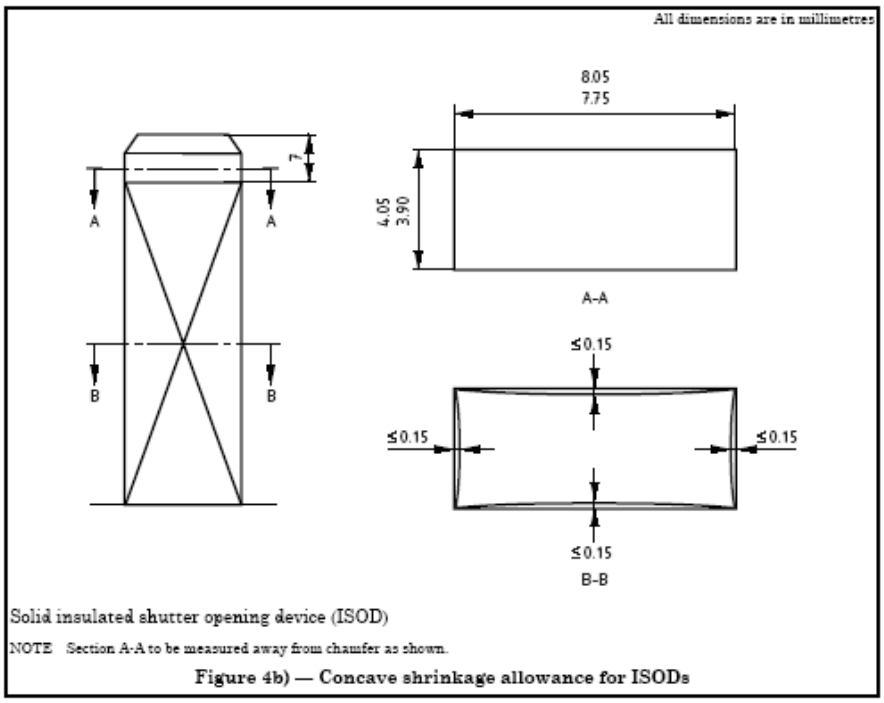
Figure 4a of BS 1363: Part 1

* Remark: all these dimensions were checked by the relevant gauge (based on BS1363: Part 1:1995 Figure 5)

Partially of BS 1363-1: part 1: 1995 + A4: 2012			
Clause	Requirement – Test	Result – Remark	Verdict

Plug Portion Dimensions (Solid insulated shutter opening device ISOD)

Linear Dimensions (mm)		SAMPLE A	Limit
T		7.91	7.75 - 8.05
U		3.98	3.90 - 4.05
V	E -> L	0.02	0.15 max
	E -> N	0.02	0.15 max
W	E -> top	0.01	0.15 max
	E -> L & N	0.02	0.15 max



Solid insulated shutter opening device (ISOD)

NOTE Section A-A to be measured away from chamfer as shown.

Figure 4b) — Concave shrinkage allowance for ISODs

Figure 4b of BS 1363: Part 1

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Partially of BS 1363-1: part 1: 1995 + A4: 2012			
Clause	Requirement – Test	Result – Remark	Verdict
12	Construction of Plugs **For UK plug models: RKP-UKxxxyyyyDP-2**		P
12.1	The disposition of the pins shall be shown as figure 4.	The dispositions of the pins were shown as specified.	P
12.2	Pin and sleeve dimensions, body outline were checked according to figure 4 of BS1363: part 1.	The outline of the plug did not exceed the specified dimensions at a distance of 6.8mm from the engagement surface. (limit: >6.35mm) The measured dimensions of item shown in fig. 4 were found within the specified limits.	P
	The plug portion should enter the gauge fully with a force less than 10N was applied to the centre of the sample at right angle.	Sample was entered into the gauge completely.	P
12.3	No part of a line or neutral pin shall be less than 9,5mm from the periphery of the plug measured along the engagement surface.	10.0mm	P
12.9	Plug pins were constructed of brass	Complied.	P
12.9.1	Exposed surface of plug pins were smooth and free from burrs or sharp edges and other irregularities, which could cause damage or excessive wear to sockets or shutters.	Complied.	P
12.9.4	The adaptor plug pins were tested as specified in the standard.	Complied. After being subjected to a force of 1100N for L, N pin, 400N for ISOD pin, the pin portion could fit the relevant gauge.	P
12.9.6	Each pin of the adaptor was subjected to a torque of 1Nm for 60s as specified in the standard.	Complied. After the test, the pin portion could fit the relevant gauge.	P
12.11	The adaptors were tested as specified in the standard. After being placed in an oven at 70°C for 1 hour, each pin of the samples was subjected for 60 sec. to a pull of 100N in the oven.	Complied. After the above test, no plug pin was detached and the plug pins could fit the relevant gauge.	P
12.12	The degree of flexibility of mounting of the plug pins was checked according to 12.12.1	Measured value: Max. 1° (test on each sources of enclosure, max. value measured) (limit: Max. 3° 30').	P
12.16	Line and neutral plug pin shall be fitted with insulating sleeves. The dimensions of the pin and sleeve shall fall within the specific limit.	Complied. Both line and neutral pins were fitted with insulating sleeves.	P
12.17.1	Plug pin sleeve shall be compliance with 12.17.2 to 12.17.4	Complied.	P
12.17.2	Electric strength test applied between the metal part of plug pin and the sleeve (1250±30V)	Complied. No breakdown or flashover occurs.	P

Partially of BS 1363-1: part 1: 1995 + A4: 2012			
Clause	Requirement – Test	Result – Remark	Verdict
12.17.3	Abrasion test for plug pin sleeve The plug pin sleeves were subjected to 20000 movements of abrasion as specified in the standard.	Complied. After the test, the sleeves showed no damage that impaired further use and could satisfy the electric strength test in 12.17. 2	P
12.17.4	The plug pins with sleeves were placed in a heating cabinet at 200°C and tested according to the standard for 120min. Arrange the test as Figure 10 of BS 1363-1.	After the test, the thickness of sleeves of plug pins (Line and neutral pins) remaining at the impression point reduced by max. 2.5% less than 50%.	P

Additional requirement for the solid insulated shutter opening device (ISOD) according to Clause 12 of BS 1363: part 1: 1995 + A4: 2012			
12.2	Plug fitted with an ISOD shall comply with all the dimensions specified in Fig. 4a with exception of the width of the ISOD, which should be 4,05mm max. and 3,90mm min. and its height which should be 8,05mm max. and 7,75mm min.	See measured dimensions in Table 3	P
12.9.4.3	Solid insulated opening device were tested as specified in the standard.	After being subjected to a forced of 400N, the pin could fit the relevant gauge.	P
12.9.5.2	Plugs with ISOD shall not cause excessive wear to socket contacts or shutters of sockets-outlets The test use a separate sample of plug with ISOD for each type of socket-outlet, with each sample being inserted into and withdrawn from the socket-outlet at a rate of 6 insertions and 6 withdrawals per minute, the speed of travel of the plug being approximately 150mm/s	After 5000 insertions and withdrawals completed, socket outlets show no damage that would impair further use. Plugs show no damage and suit for the dimensional requirements according to clause 12.2. The shutters of the socket-outlets operate satisfactorily and socket contacts safety shielded.	P
22.2	**Resistance to heat**		P
	Ball pressure test according to BS EN 60695-10-2:2003 on parts of insulation material necessary for the function or supporting parts of the plug.	Test performed on plug portion (including ISOD) for 125°C ball pressure test at the material of plug portion which maintains live part in position. Measured after 1 hour. Max. 0.6mm measured after 1 hour. Limit: 2mm	P
23	**Resistance of insulating material to abnormal heat and fire**		P
	Insulating material not unduly affected by abnormal heat and by fire	Glow wire test performed on enclosure with: 650°C. All enclosure material have been considered.	P

Partially of BS 1363-1: part 1: 1995 + A4: 2012			
Clause	Requirement – Test	Result – Remark	Verdict
	Insulating material not unduly affected by abnormal heat and by fire	Glow wire test performed on plug portion (including ISOD) with: 750°C. All enclosure material have been considered.	P

Plug portion dimensions					
Linear Dimensions (mm)		Measurement		Limit	
*A		24.46		25.370 max.	
*B		31.1		34.6 max.	
*C		15.0		15 min.	
D		10.0		9.5 min.	
*E	L -> E	11.11		11.05 - 11.18	
	N -> E	11.10			
*F	L -> E	22.20		22.10 - 22.36	
	N -> E	22.19			
G1		6.29		6.22 - 6.48	
G2		6.30		6.22 - 6.48	
H		4.01		3.90 - 4.05	
*I		22.85		22.23 - 23.23	
J		1.50		1.35 - 1.85	
K		8.00		7.80 - 8.05	7.75 - 8.05 For ISOD
L	line	8.74		9.5 max.	
	neutral	8.78			
M	line	8.72		9.2 max.	
	neutral	8.76			
N (sleeve)	line	3.98		3.90 - 4.05	
	neutral	3.98			
O	line	17.46		17.20 - 18.20	
	neutral	17.48			
P	Line	1.40		1.35 - 1.85	
	neutral	1.40			
	earth	1.43			
Q (metal)	line	3.96		3.90 - 4.05	
	neutral	3.96			
	earth	4.00			
R	Line	1.60		1.2 - 2.0	
	neutral	1.60			
	earth	1.80			
S	line	1.60		1.35 - 1.85	

Partially of BS 1363-1: part 1: 1995 + A4: 2012			
Clause	Requirement – Test	Result – Remark	Verdict

	neutral	1.60			

*Remark: all these dimensions were checked by the relevant gauge (based on BS1363: Part 1:1995 Figure 5)

Angular Dimensions (°)		Measurement		Limits	
θ1		60.0°		58° - 62°	
θ2	line	69.0°		60° - 80°	
	neutral	69.0°			
	earth	69.0°			
θ3	line	59.0°		58° - 62°	
	neutral	59.0°			

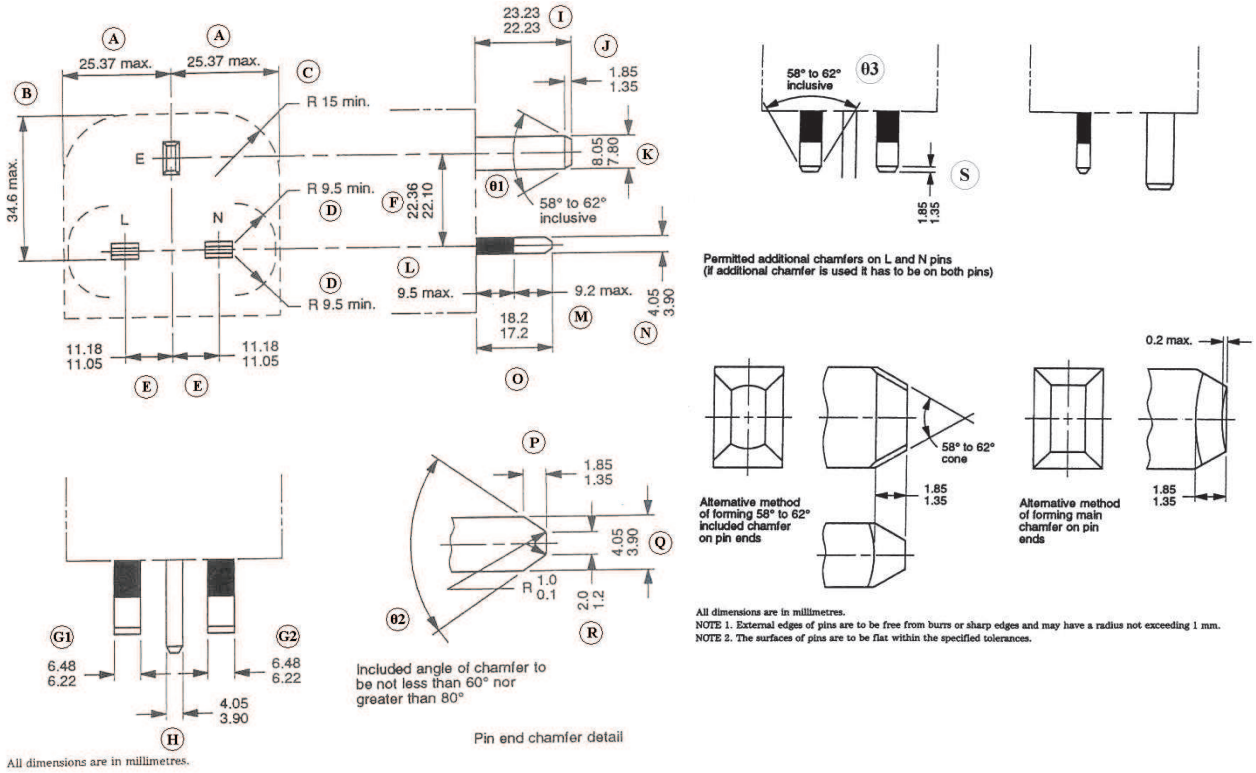

Figure 4a of BS 1363: Part 1

* Remark: all these dimensions were checked by the relevant gauge (based on BS1363: Part 1:1995 Figure 5)

Partially of BS 1363-1: part 1: 1995 + A4: 2012			
Clause	Requirement – Test	Result – Remark	Verdict

Plug Portion Dimensions (Solid insulated shutter opening device ISOD)

Linear Dimensions (mm)		SAMPLE A	Limit
T		8.00	7.75 - 8.05
U		4.00	3.90 - 4.05
V	E -> L	0.04	0.15 max
	E -> N	0.04	0.15 max
W	E -> top	0.04	0.15 max
	E -> L & N	0.04	0.15 max

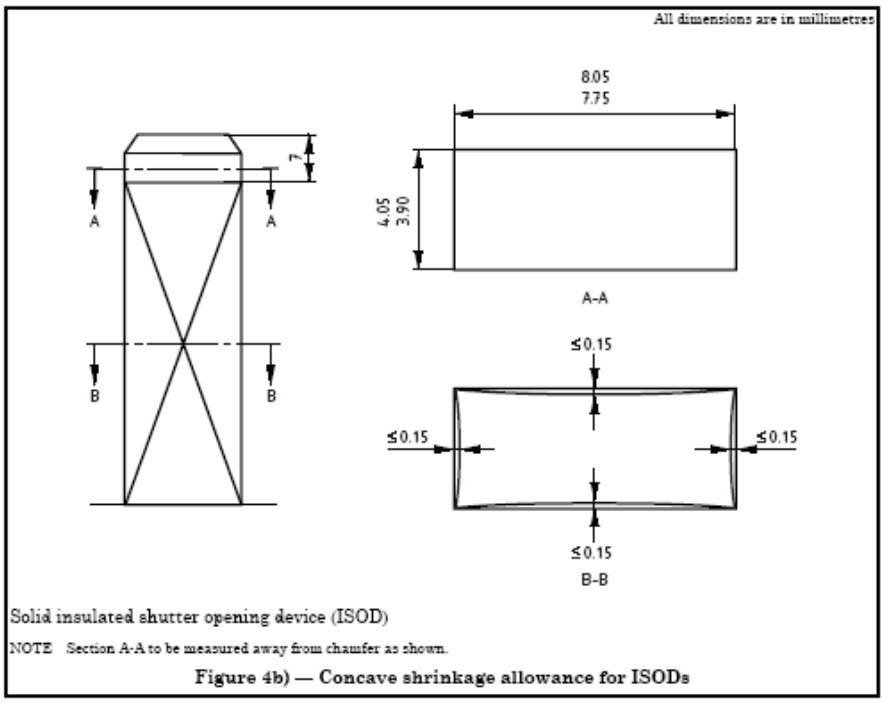

Figure 4b) — Concave shrinkage allowance for ISODs

Figure 4b of BS 1363: Part 1

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Partially of BS 1363-1: part 1: 1995 + A4: 2012			
Clause	Requirement – Test	Result – Remark	Verdict
12	Construction of Plugs **For UK plug models: RKP-UKxxxyyyyDP-1**		P
12.1	The disposition of the pins shall be shown as figure 4.	The dispositions of the pins were shown as specified.	P
12.2	Pin and sleeve dimensions, body outline were checked according to figure 4 of BS1363: part 1.	The outline of the plug did not exceed the specified dimensions at a distance of 7.2mm from the engagement surface. (limit: >6.35mm) The measured dimensions of item shown in fig. 4 were found within the specified limits.	P
	The plug portion should enter the gauge fully with a force less than 10N was applied to the centre of the sample at right angle.	Sample was entered into the gauge completely.	P
12.3	No part of a line or neutral pin shall be less than 9,5mm from the periphery of the plug measured along the engagement surface.	10.0mm	P
12.9	Plug pins were constructed of brass	Complied.	P
12.9.1	Exposed surface of plug pins were smooth and free from burrs or sharp edges and other irregularities, which could cause damage or excessive wear to sockets or shutters.	Complied.	P
12.9.4	The adaptor plug pins were tested as specified in the standard.	Complied. After being subjected to a force of 1100N for L, N pin, 400N for ISOD pin, the pin portion could fit the relevant gauge.	P
12.9.6	Each pin of the adaptor was subjected to a torque of 1Nm for 60s as specified in the standard.	Complied. After the test, the pin portion could fit the relevant gauge.	P
12.11	The adaptors were tested as specified in the standard. After being placed in an oven at 70°C for 1 hour, each pin of the samples was subjected for 60 sec. to a pull of 100N in the oven.	Complied. After the above test, no plug pin was detached and the plug pins could fit the relevant gauge.	P
12.12	The degree of flexibility of mounting of the plug pins was checked according to 12.12.1	Measured value: Max. 1° (test on each sources of enclosure, max. value measured) (limit: Max. 3° 30').	P
12.16	Line and neutral plug pin shall be fitted with insulating sleeves. The dimensions of the pin and sleeve shall fall within the specific limit.	Complied. Both line and neutral pins were fitted with insulating sleeves.	P
12.17.1	Plug pin sleeve shall be compliance with 12.17.2 to 12.17.4	Complied.	P
12.17.2	Electric strength test applied between the metal part of plug pin and the sleeve (1250±30V)	Complied. No breakdown or flashover occurs.	P

Partially of BS 1363-1: part 1: 1995 + A4: 2012			
Clause	Requirement – Test	Result – Remark	Verdict
12.17.3	Abrasion test for plug pin sleeve The plug pin sleeves were subjected to 20000 movements of abrasion as specified in the standard.	Complied. After the test, the sleeves showed no damage that impaired further use and could satisfy the electric strength test in 12.17. 2	P
12.17.4	The plug pins with sleeves were placed in a heating cabinet at 200°C and tested according to the standard for 120min. Arrange the test as Figure 10 of BS 1363-1.	After the test, the thickness of sleeves of plug pins (Line and neutral pins) remaining at the impression point reduced by max. 2.5% less than 50%.	P

Additional requirement for the solid insulated shutter opening device (ISOD) according to Clause 12 of BS 1363: part 1: 1995 + A4: 2012			
12.2	Plug fitted with an ISOD shall comply with all the dimensions specified in Fig. 4a with exception of the width of the ISOD, which should be 4,05mm max. and 3,90mm min. and its height which should be 8,05mm max. and 7,75mm min.	See measured dimensions in Table 3	P
12.9.4.3	Solid insulated opening device were tested as specified in the standard.	After being subjected to a forced of 400N, the pin could fit the relevant gauge.	P
12.9.5.2	Plugs with ISOD shall not cause excessive wear to socket contacts or shutters of sockets-outlets The test use a separate sample of plug with ISOD for each type of socket-outlet, with each sample being inserted into and withdrawn from the socket-outlet at a rate of 6 insertions and 6 withdrawals per minute, the speed of travel of the plug being approximately 150mm/s	After 5000 insertions and withdrawals completed, socket outlets show no damage that would impair further use. Plugs show no damage and suit for the dimensional requirements according to clause 12.2. The shutters of the socket-outlets operate satisfactorily and socket contacts safety shielded.	P
22.2	**Resistance to heat**		P
	Ball pressure test according to BS EN 60695-10-2:2003 on parts of insulation material necessary for the function or supporting parts of the plug.	Test performed on plug portion (including ISOD) for 125°C ball pressure test at the material of plug portion which maintains live part in position. Measured after 1 hour. Max. 1.2mm measured after 1 hour. Limit: 2mm	P
23	**Resistance of insulating material to abnormal heat and fire**		P
	Insulating material not unduly affected by abnormal heat and by fire	Glow wire test performed on enclosure with: 650°C. All enclosure material have been considered.	P

Partially of BS 1363-1: part 1: 1995 + A4: 2012			
Clause	Requirement – Test	Result – Remark	Verdict
	Insulating material not unduly affected by abnormal heat and by fire	Glow wire test performed on plug portion (including ISOD) with: 750°C. All enclosure material have been considered.	P

Plug portion dimensions					
Linear Dimensions (mm)		Measurement		Limit	
*A		24.9		25.370 max.	
*B		32.9		34.6 max.	
*C		Fit the testing gauge		15 min.	
D		10.0		9.5 min.	
*E	L -> E	11.15		11.05 - 11.18	
	N -> E	11.15			
*F	L -> E	22.24		22.10 - 22.36	
	N -> E	22.21			
G1		6.23		6.22 - 6.48	
G2		6.24		6.22 - 6.48	
H		3.98		3.90 - 4.05	
*I		22.72		22.23 - 23.23	
J		1.75		1.35 - 1.85	
K		7.92		7.80 - 8.05	7.75 - 8.05 For ISOD
L	line	9.45		9.5 max.	
	neutral	9.43			
M	line	8.30		9.2 max.	
	neutral	8.30			
N (sleeve)	line	3.95		3.90 - 4.05	
	neutral	3.96			
O	line	17.74		17.20 - 18.20	
	neutral	17.71			
P	Line	1.56		1.35 - 1.85	
	neutral	1.53			
	earth	1.72			
Q (metal)	line	3.94		3.90 - 4.05	
	neutral	3.95			
	earth	3.97			
R	Line	1.57		1.2 - 2.0	
	neutral	1.54			
	earth	1.79			
S	line	1.60		1.35 - 1.85	

BS 1363-1 a (Plug portion acceptance test)

Partially of BS 1363-1: part 1: 1995 + A4: 2012			
Clause	Requirement – Test	Result – Remark	Verdict

	neutral	1.58			

*Remark: all these dimensions were checked by the relevant gauge (based on BS1363: Part 1:1995 Figure 5)

Angular Dimensions (°)		Measurement		Limits	
θ1		63.0°		58° - 62°	
θ2	line	70.0°		60° - 80°	
	neutral	71.0°			
	earth	75.0°			
θ3	line	58.0°		58° - 62°	
	neutral	58.0°			

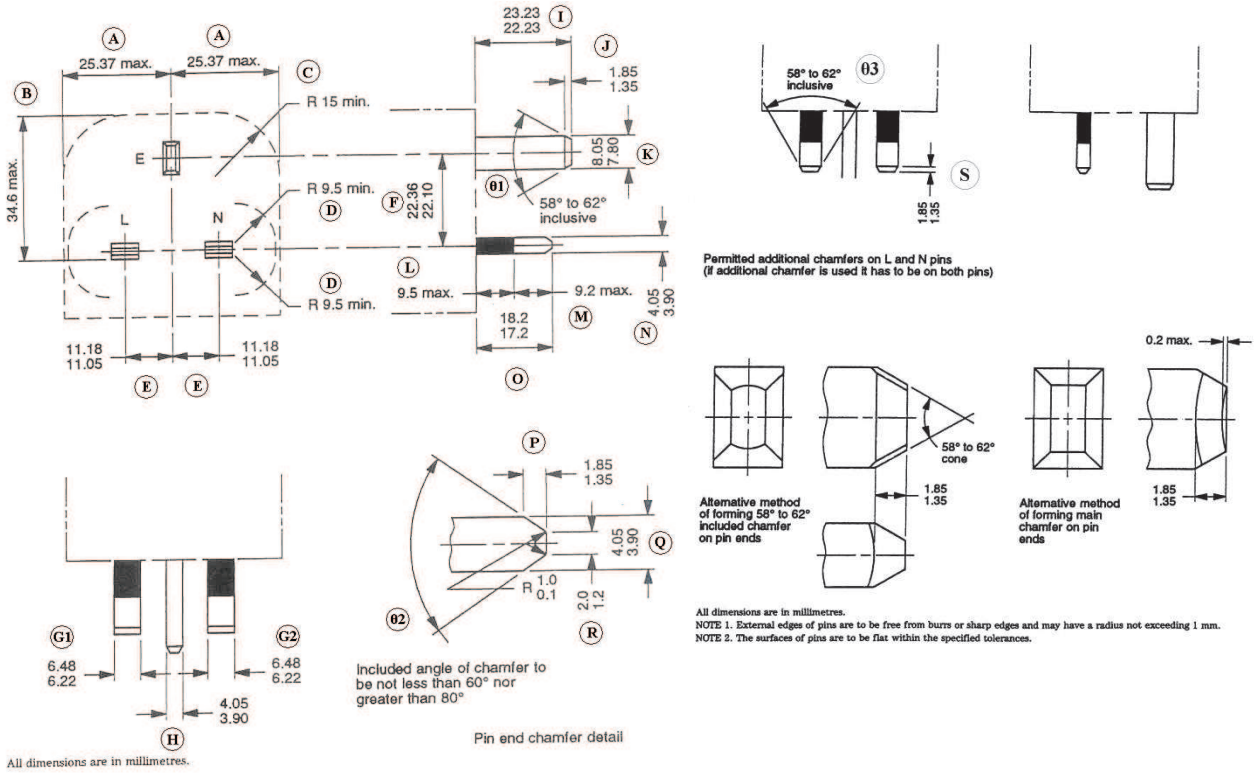


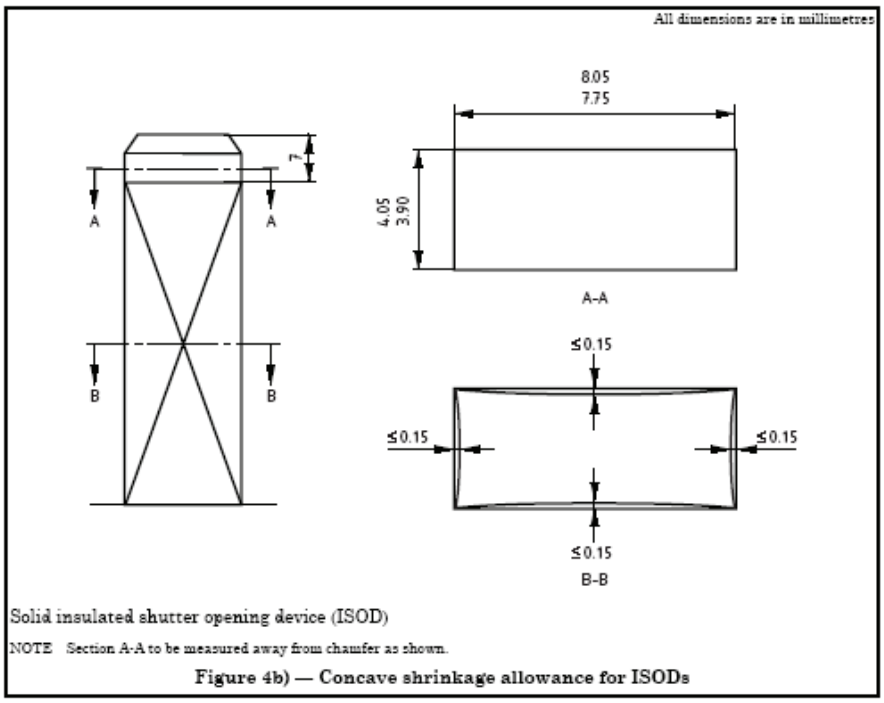
Figure 4a of BS 1363: Part 1

* Remark: all these dimensions were checked by the relevant gauge (based on BS1363: Part 1:1995 Figure 5)

Partially of BS 1363-1: part 1: 1995 + A4: 2012			
Clause	Requirement – Test	Result – Remark	Verdict

Plug Portion Dimensions (Solid insulated shutter opening device ISOD)

Linear Dimensions (mm)		SAMPLE A	Limit
T		7.92	7.75 - 8.05
U		3.98	3.90 - 4.05
V	E -> L	0.01	0.15 max
	E -> N	0.02	0.15 max
W	E -> top	0.02	0.15 max
	E -> L & N	0.02	0.15 max



Solid insulated shutter opening device (ISOD)

NOTE Section A-A to be measured away from chamfer as shown.

Figure 4b) — Concave shrinkage allowance for ISODs

Figure 4b of BS 1363: Part 1

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EN 50075 (partially)			
Clause	Requirement – Test	Result – Remark	Verdict

6	**Marking**		**P**
	Appliances shall be marked as follows:		**--**
	Rated current in amperes (A)	Refer to marking label of final appliance.	**N/A**
	Rated Voltage in volts (V)	As above	**N/A**
	Symbol for nature of supply (~)	As above	**N/A**
	Name, trade mark or identification mark of manufacturer or responsible vendor	Dongguan Rico Electronic Co., Ltd.	**P**
	Type reference	Model: RKP-EUxxxyyyyDP-2	**P**

7	**Dimensions**			**P**
	Plugs shall comply with Standard Sheet 1		(see attached drawing)	**P**
	Between two pins (pin base)	18.0 - 19.2 mm	18.2 mm	**P**
	Between two pins (pin top)	17.0 - 18.0 mm	17.5 mm	**P**
	Diameter of pin (metallic part)	$4^{\pm 0.06}$ mm	3.97 mm	**P**
	Diameter of pin (pin base)	max. 4.0 mm	3.90 mm	**P**
	Diameter of pin (middle part)	max. 3.8 mm	3.50 mm	**P**
	Pin length	$19^{\pm 0.5}$ mm	19.30 mm	**P**
	Length of pin except metal part	$10^{+1/-0}$ mm	10.30 mm	**P**
	Shape of pin top		Round shape	**P**
	Length of plug base	$35.3^{\pm 0.7}$ mm	35.7 mm	**P**
	Width of plug base	$13.7^{\pm 0.7}$ mm	14.1 mm	**P**
	Diagonal dimension of plug base	$26.1^{\pm 0.5}$ mm	26.3 mm	**P**
	within a distance of 18mm	≥18 mm	18.3 mm	**P**
	Angle	45°	45 °	**P**
	Radius	R 5 -0, +1 mm	5.5 mm	**P**

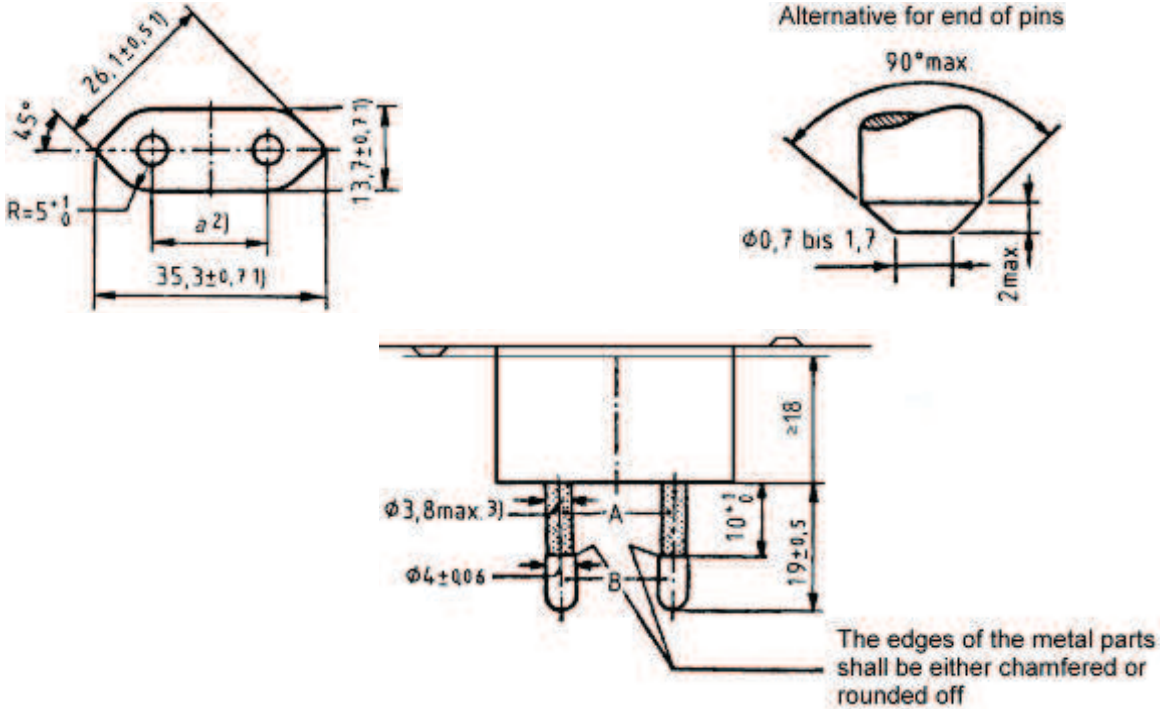
8.	**Protection against electric shock**		**P**
8.1	Live parts of the plug not accessible (standard test finger)	Protected by enclosure of the equipment	**P**
8.2	No connection between one plug-pin and socket outlet	Checked by gauge of Fig.4	**P**
8.3	External parts of insulating material	External parts except pins are insulating material.	**P**

EN 50075 (partially)			
Clause	Requirement – Test	Result – Remark	Verdict
9	**Construction**		**P**
9.1	Plugs not replaceable	Not replaceable	**P**
9.2	Switches, fuses, lampholders not incorporated	Not incorporated	**P**
9.3	Solid pins	See clause 13	**P**
	Adequate mechanical strength	As above	**P**
9.4	Pins locked against rotation	See clause 13.1 and 13.4	**P**
	Adequate fixed into the body	Each pin shaft is designed with ridges to lock into the pin holder	**P**
9.5	Kind of connection	Connected by springy metal sheet.	**P**
9.6	Easily to be withdrawn from socket-outlet	The equipment provides sufficient gripping surface	**P**
10	**Resistance to humidity**		**P**
	-Humidity treatment for 48 hours	Tested with the equipment for 120h at 40°C and 95%RH (All material have been considered)	**P**
11	**Insulation resistance and electric strength**		**P**
11.1	Insulation resistance (500 V, min 5 MΩ)	Pins against body: 100MΩ Each pin against body: 100MΩ Required: 7MΩ Pin against Pin: 100MΩ Required: 2MΩ	**P**
11.2	Electric strength (2,000 V)	Pins against body: 2000V Each pin against body: 2000V Pin against Pin: 2000V	**P**
13	**Mechanical strength**		**P**
13.1	Pressed with 150 N for 5 min	No deformation or deviation from the dimensions for all material of plug portion	**P**

EN 50075 (partially)			
Clause	Requirement – Test	Result – Remark	Verdict
13.2	Tumbling barrel according to Figure 8	Weight of product with output cable cut to 100mm: 77g 1000 falls was conducted on the plug portion mated with AC Adapter according to DIN VDE 0620-2-1:2013, item 24.2. Three samples tested. After the test, it was fulfilled the requirements of DIN VDE 0620-101:1992 item 7 figure 2 "gauge for interchangeability" and no damage.	**P**
	No damages after the test		**P**
	Requirements of clause 7 and 8.2 still fulfilled	Deformations allowed according to the equipment standard.	**P**
13.3	Rubbing test of plug-pins: 10,000 cycles, 4 N	See test below	**P**
	No damage of the pins	No visible damage	**P**
13.4	Pull test at 70°C with 40 N	See test below	**P**
	Pins not more than 1 mm displaced	Displacement: 0.01mm	**P**
14	**Resistance to heat and to ageing**		**P**
14.1	Sufficient resistant to heat	See test below	**P**
14.1.1	After 1 h in heating cabinet at 100°C no damage shown	No visible damage	**P**
14.1.2	After 1h in heating cabinet at 80°C and a force of 20 N through the jaws no damage shown	Performed a 125°C ball pressure test at the material of plug portion which maintains live part in position. Measured after 1 hour: 1.1mm	**P**
14.2	Aging test	See test below, all enclosure material have been considered.	**P**
	- at 70°C for 168h	70°C for 168h applied.	**P**
	- at room temperature for 96h		**N/A**
	No traces of cloth at a force of 5N	Material does not soften	**P**
	No damage leads to non-compliance	No visible damage	**P**

EN 50075 (partially)			
Clause	Requirement – Test	Result – Remark	Verdict
15	**Current-carrying parts and connections resistance to heat and to ageing**		**P**
15.1	Connections withstand the mechanical stresses occurring in normal use	See below	**P**
15.2	Contact pressure not through isolating material	Complied	**P**
15.3	Current carrying parts of copper	Copper content 64.5%. No rolled sheet used	**P**
	No electroplated coating when part is subjected to mechanical wear	No electroplated coating	**P**
	Other metals having a mechanical strength, an electrical conductivity and a resistance to corrosion	No such materials used.	**N/A**
16	**Creepage distances , clearances and distances through insulation**		**P**
	Live parts of different polarity: 3 mm	>3 mm	**P**
	Through insulation between live parts and accessible surfaces: 1.5 mm	>1.5 mm	**P**
17	**Resistance of insulating material to abnormal heat and fire**		**P**
	Insulating material not unduly affected by abnormal heat and by fire	Glow wire test performed on plug pin holder with: 750°C. Test was performed for all sources of enclosure material.	**P**
	Insulating material not unduly affected by abnormal heat and by fire	Glow wire test performed on plug portion with: 650°C. Test was performed for all sources of enclosure material.	**P**

EN 50075 (partially)			
Clause	Requirement – Test	Result – Remark	Verdict
7	**Dimensions**		**P**



A = Insulating collar

B = metal pin

1) These dimensions shall not be exceeded within a distance of 18mm from the engagement face of the plug.

2) Dimension a is:
18mm to 19.2mm in the plane of the engagement face
17mm to 18mm at the ends of the pins

3) This dimension may be increased to 4mm within a distance of 4mm from the engagement face of the plug.

EN 50075 (partially)			
Clause	Requirement – Test	Result – Remark	Verdict

6	**Marking**		**P**
	Appliances shall be marked as follows:		**--**
	Rated current in amperes (A)	Refer to marking label of final appliance.	**N/A**
	Rated Voltage in volts (V)	As above	**N/A**
	Symbol for nature of supply (~)	As above	**N/A**
	Name, trade mark or identification mark of manufacturer or responsible vendor	Dongguan Rico Electronic Co., Ltd.	**P**
	Type reference	Model: RKP-EUxxxyyyyDP-1	**P**

7	**Dimensions**			**P**
	Plugs shall comply with Standard Sheet 1		(see attached drawing)	**P**
	Between two pins (pin base)	18.0 - 19.2 mm	18.4 mm	**P**
	Between two pins (pin top)	17.0 - 18.0 mm	17.7 mm	**P**
	Diameter of pin (metallic part)	$4^{\pm 0.06}$ mm	3.98 mm	**P**
	Diameter of pin (pin base)	max. 4.0 mm	3.90 mm	**P**
	Diameter of pin (middle part)	max. 3.8 mm	3.40 mm	**P**
	Pin length	$19^{\pm 0.5}$ mm	19.10 mm	**P**
	Length of pin except metal part	$10^{+1/-0}$ mm	10.30 mm	**P**
	Shape of pin top		Round shape	**P**
	Length of plug base	$35.3^{\pm 0.7}$ mm	35.6 mm	**P**
	Width of plug base	$13.7^{\pm 0.7}$ mm	14.1 mm	**P**
	Diagonal dimension of plug base	$26.1^{\pm 0.5}$ mm	26.2 mm	**P**
	within a distance of 18mm	≥18 mm	18.0 mm	**P**
	Angle	45°	45 °	**P**
	Radius	R 5 -0, +1 mm	5.0 mm	**P**

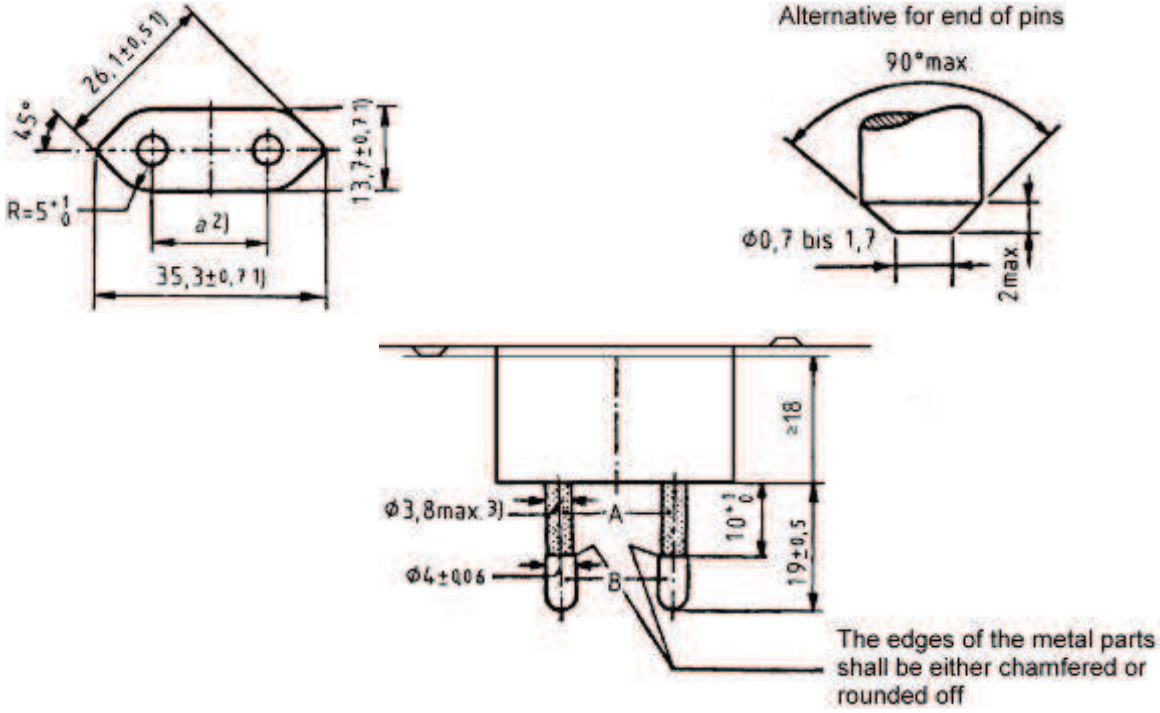
8.	**Protection against electric shock**		**P**
8.1	Live parts of the plug not accessible (standard test finger)	Protected by enclosure of the equipment	**P**
8.2	No connection between one plug-pin and socket outlet	Checked by gauge of Fig.4	**P**
8.3	External parts of insulating material	External parts except pins are insulating material.	**P**

EN 50075 (partially)			
Clause	Requirement – Test	Result – Remark	Verdict
9	**Construction**		**P**
9.1	Plugs not replaceable	Not replaceable	**P**
9.2	Switches, fuses, lampholders not incorporated	Not incorporated	**P**
9.3	Solid pins	See clause 13	**P**
	Adequate mechanical strength	As above	**P**
9.4	Pins locked against rotation	See clause 13.1 and 13.4	**P**
	Adequate fixed into the body	Each pin shaft is designed with ridges to lock into the pin holder.	**P**
9.5	Kind of connection	Connected by hooking-in before soldering.	**P**
9.6	Easily to be withdrawn from socket-outlet	The equipment provides sufficient gripping surface	**P**
10	**Resistance to humidity**		**P**
	-Humidity treatment for 48 hours	Tested with the equipment for 120h at 40°C and 95%RH (All material have been considered)	**P**
11	**Insulation resistance and electric strength**		**P**
11.1	Insulation resistance (500 V, min 5 MΩ)	Pins against body: 100MΩ Each pin against body: 100MΩ Required: 7MΩ Pin against Pin: 100MΩ Required: 2MΩ	**P**
11.2	Electric strength (2,000 V)	Pins against body: 2000V Each pin against body: 2000V Pin against Pin: 2000V	**P**
13	**Mechanical strength**		**P**
13.1	Pressed with 150 N for 5 min	No deformation or deviation from the dimensions for all material of plug portion	**P**

EN 50075 (partially)			
Clause	Requirement – Test	Result – Remark	Verdict
13.2	Tumbling barrel according to Figure 8	Weight of product with output cable cut to 100mm: 54g 1000 falls was conducted on the plug portion mated with AC Adapter according to DIN VDE 0620-2-1:2013, item 24.2. Three samples tested. After the test, it was fulfilled the requirements of DIN VDE 0620-101:1992 item 7 figure 2 "gauge for interchangeability" and no damage.	**P**
	No damages after the test		**P**
	Requirements of clause 7 and 8.2 still fulfilled	Deformations allowed according to the equipment standard	**P**
13.3	Rubbing test of plug-pins: 10,000 cycles, 4 N	See test below	**P**
	No damage of the pins	No visible damage	**P**
13.4	Pull test at 70 °C with 40 N	See test below	**P**
	Pins not more than 1 mm displaced	Displacement: 0.01mm	**P**
14	**Resistance to heat and to ageing**		**P**
14.1	Sufficient resistant to heat	See test below	**P**
14.1.1	After 1 h in heating cabinet at 100 °C no damage shown	No visible damage	**P**
14.1.2	After 1h in heating cabinet at 80 °C and a force of 20 N through the jaws no damage shown	Performed a 125°C ball pressure test at the material of plug portion which maintains live part in position. Measured after 1 hour: 1.2mm	**P**
14.2	Aging test	See test below, all enclosure material have been considered.	**P**
	- at 70 °C for 168h	70 °C for 168h applied.	**P**
	- at room temperature for 96h		**N/A**
	No traces of cloth at a force of 5N	Material does not soften	**P**
	No damage leads to non-compliance	No visible damage	**P**

EN 50075 (partially)			
Clause	Requirement – Test	Result – Remark	Verdict
15	**Current-carrying parts and connections resistance to heat and to ageing**		**P**
15.1	Connections withstand the mechanical stresses occurring in normal use	See below	**P**
15.2	Contact pressure not through isolating material	Complied	**P**
15.3	Current carrying parts of copper	Copper content 64.5%. No rolled sheet used	**P**
	No electroplated coating when part is subjected to mechanical wear	No electroplated coating	**P**
	Other metals having a mechanical strength, an electrical conductivity and a resistance to corrosion	No such materials used.	**N/A**
16	**Creepage distances , clearances and distances through insulation**		**P**
	Live parts of different polarity: 3 mm	>3 mm	**P**
	Through insulation between live parts and accessible surfaces: 1.5 mm	>1.5 mm	**P**
17	**Resistance of insulating material to abnormal heat and fire**		**P**
	Insulating material not unduly affected by abnormal heat and by fire	Glow wire test performed on plug pin holder with: 750°C. Test was performed for all sources of enclosure material.	**P**
	Insulating material not unduly affected by abnormal heat and by fire	Glow wire test performed on plug portion with: 650°C. Test was performed for all sources of enclosure material.	**P**

EN 50075 (partially)			
Clause	Requirement – Test	Result – Remark	Verdict
7	**Dimensions**		**P**



A = Insulating collar

B = metal pin

1) These dimensions shall not be exceeded within a distance of 18mm from the engagement face of the plug.

2) Dimension a is:
18mm to 19.2mm in the plane of the engagement face
17mm to 18mm at the ends of the pins

3) This dimension may be increased to 4mm within a distance of 4mm from the engagement face of the plug.

Product: LED Power Supply

Type Designation: See test report

Figure 1. External view of RKPO-UKxxxyyyy, RKPO-UKxxxyyyy-D1, RKPO-UKxxxyyyy-D2

Figure 2. External view of RKPO-UKxxxyyyy, RKPO-UKxxxyyyy-D1, RKPO-UKxxxyyyy-D2

Product: LED Power Supply

Type Designation: See test report

Figure 3. External view of RKPO-EUxxxyyyy, RKPO-EUxxxyyyy-D1, RKPO-EUxxxyyyy-D2

Figure 4. External view of RKPO-EUxxxyyyy, RKPO-EUxxxyyyy-D1, RKPO-EUxxxyyyy-D2

Product: LED Power Supply

Type Designation: See test report

Figure 5. External view of RKPO-EUxxxyyyyCD-5

Figure 6. External view of RKPO-EUxxxyyyyCD-5

Product: LED Power Supply

Type Designation: See test report

Figure 7. External view of RKPO-UKxxxyyyyCD-5

Figure 8. External view of RKPO-UKxxxyyyyCD-5

Product: LED Power Supply

Type Designation: See test report

Figure 9. External view of RKPO-UKxxxyyyyCD-5

Figure 10. External view of RKP-UKxxxyyyyDP-5

Product: LED Power Supply

Type Designation: See test report

Figure 11. External view of RKP-UKxxxyyyyDP-5

Figure 12. External view of RKP-EUxxxyyyyCD-5

Product: LED Power Supply

Type Designation: See test report

Figure 13. External view of RKP-UKxxxyyyyCD-5

Figure 14. External view of RKP-UKxxxyyyyCD-5

Product: LED Power Supply

Type Designation: See test report

Figure 15. External view of RKPO-EUxxxyyyyDP-2

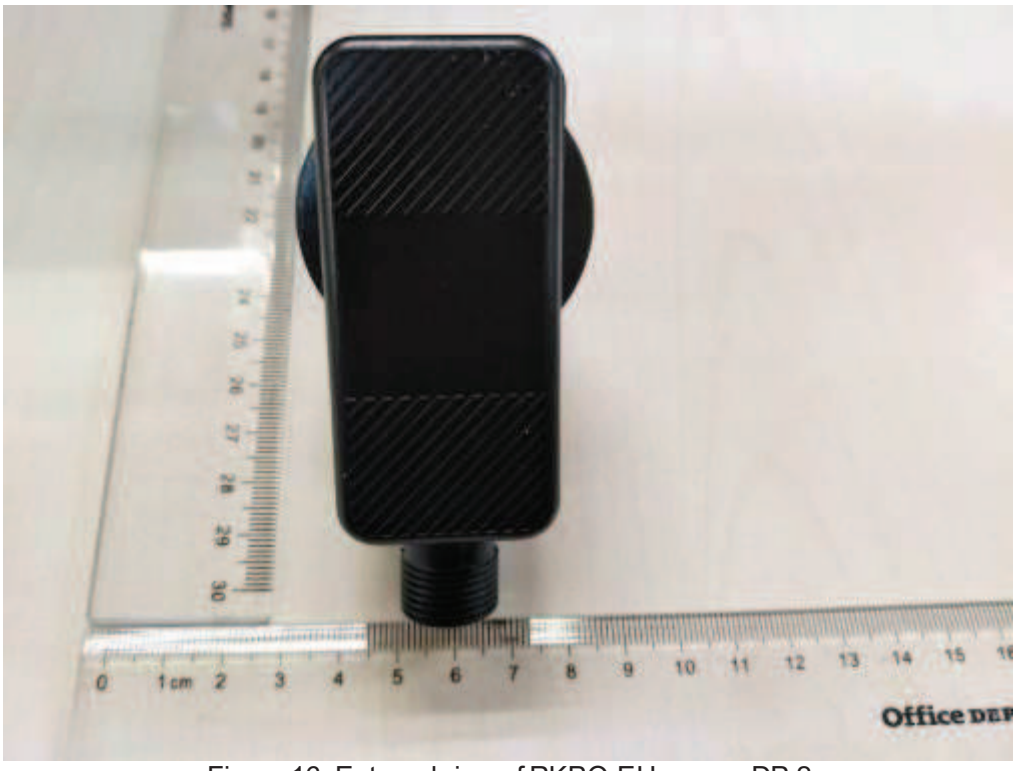


Figure 16. External view of RKPO-EUxxxyyyyDP-2

Product: LED Power Supply

Type Designation: See test report

Figure 17. External view of RKPO-UKxxxyyyyDP-2

Figure 18. External view of RKPO-UKxxxyyyyDP-2

Product: LED Power Supply

Type Designation: See test report

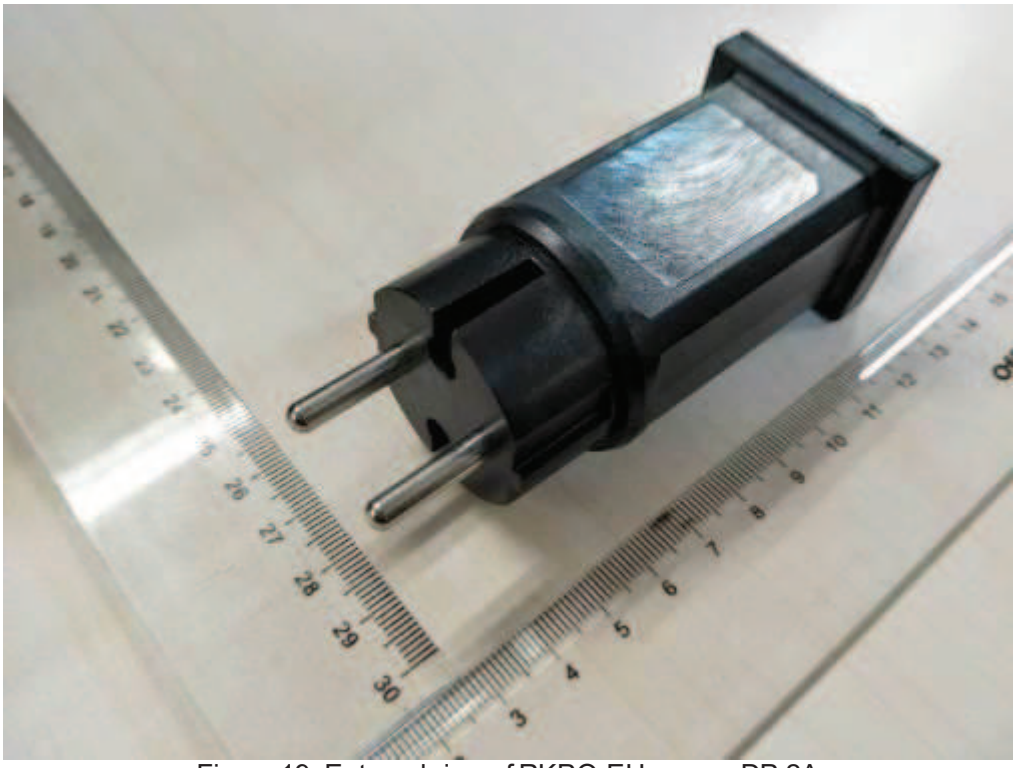


Figure 19. External view of RKPO-EUxxxyyyyDP-2A

Figure 20. External view of RKPO-EUxxxyyyyDP-2A

Product: LED Power Supply

Type Designation: See test report

Figure 21. External view of RKPO-EUxxxyyyyCD-2, RKPO-EUxxxyyyyCD-1

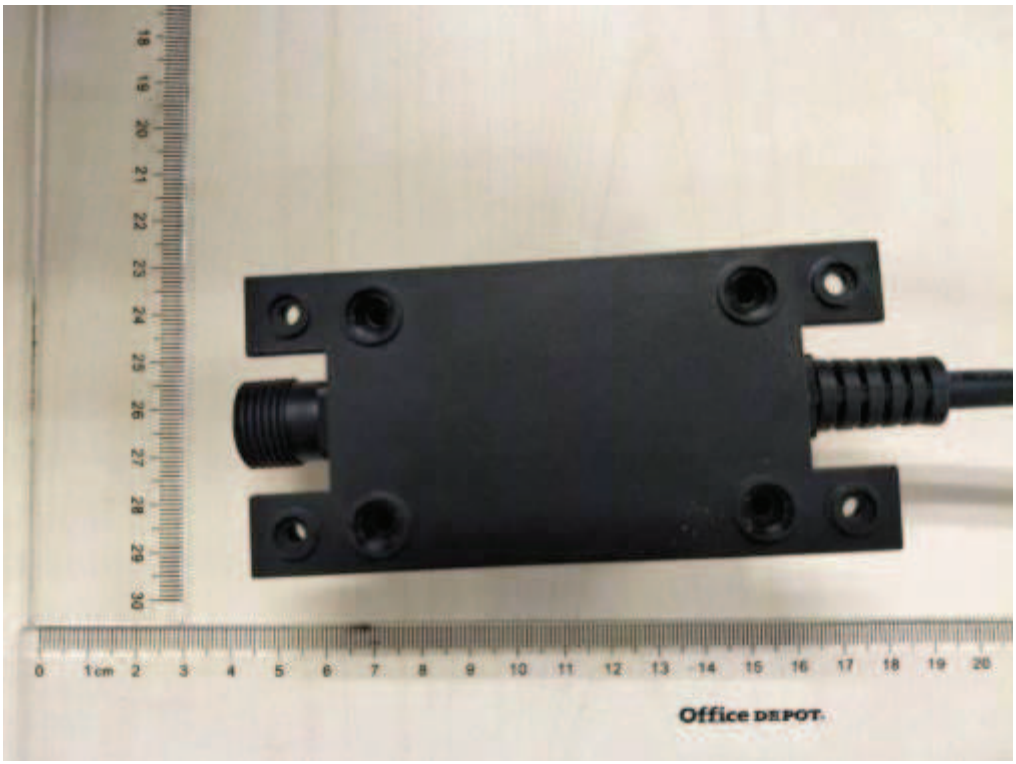


Figure 22. External view of RKPO-EUxxxyyyyCD-2, RKPO-EUxxxyyyyCD-1

Product: LED Power Supply

Type Designation: See test report

Figure 23. External view of RKPO-UKxxxyyyyCD-2, RKPO-UKxxxyyyyCD-1

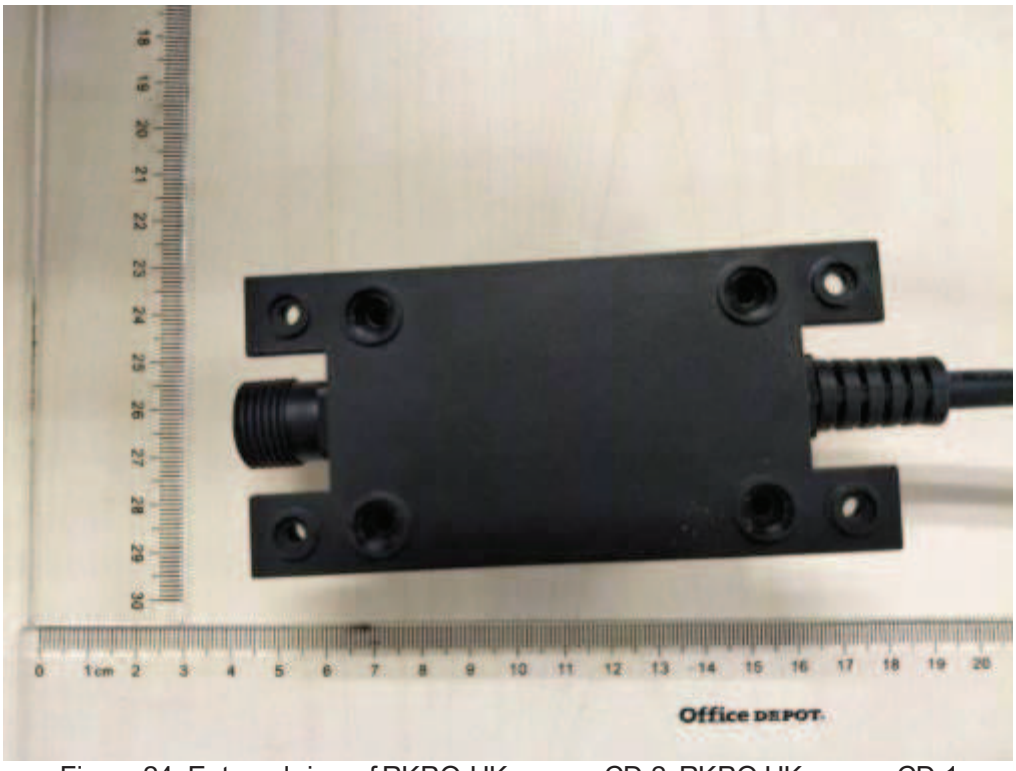


Figure 24. External view of RKPO-UKxxxyyyyCD-2, RKPO-UKxxxyyyyCD-1

Product: LED Power Supply

Type Designation: See test report

Figure 25. External view of RKP-EUxxxyyyyDP-2

Figure 26. External view of RKP-EUxxxyyyyDP-2

Product: LED Power Supply

Type Designation: See test report

Figure 27. External view of RKP-UKxxxyyyyDP-2

Figure 28. External view of RKP-UKxxxyyyyDP-2

Product: LED Power Supply

Type Designation: See test report

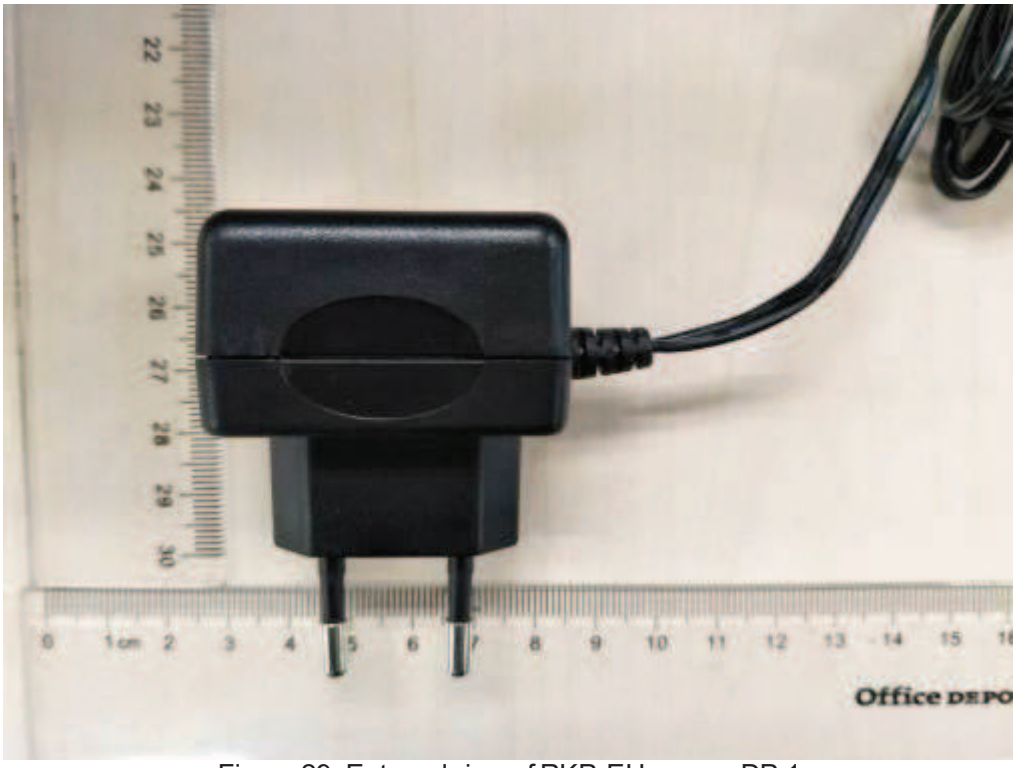


Figure 29. External view of RKP-EUxxxyyyyDP-1

Figure 30. External view of RKP-EUxxxyyyyDP-1

Product: LED Power Supply

Type Designation: See test report

Figure 31. External view of RKP-UKxxxyyyyDP-1

Figure 32. External view of RKP-UKxxxyyyyDP-1

Figure 33. Output connector view of RKPO-zzxxxyyyy, RKPO-zzxxxyyyy-D1, RKPO-zzxxxyyyy-D2

Figure 34. Output connector view of RKPO-zzxxxyyyyCD-5

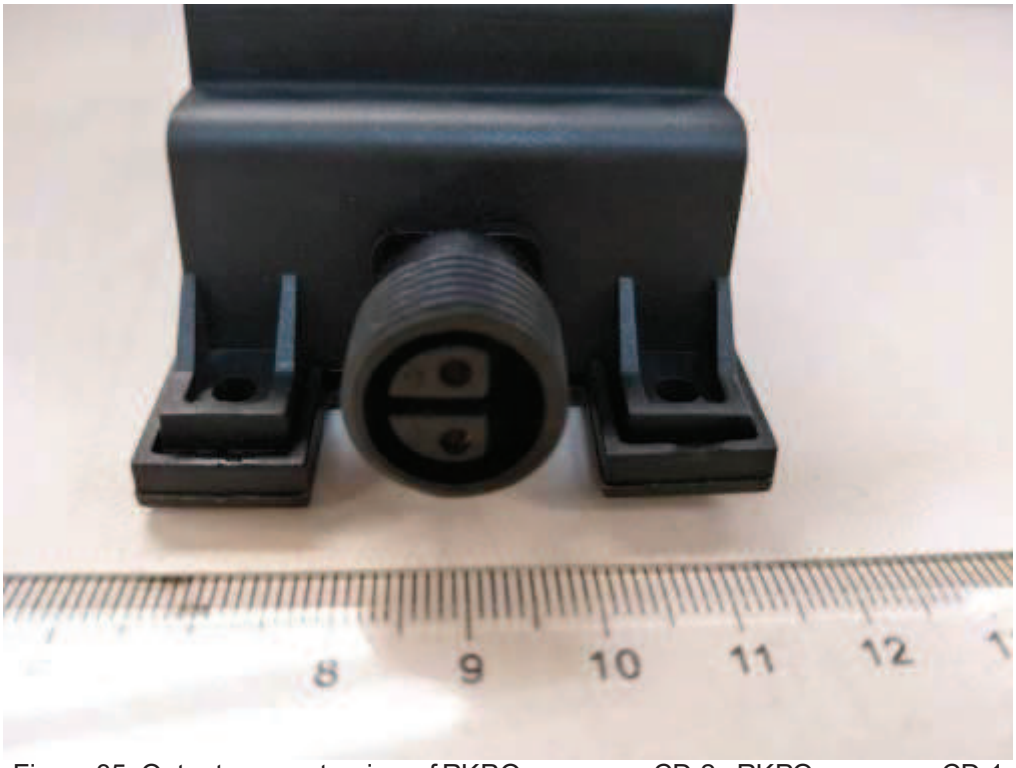


Figure 35. Output connector view of RKPO-zzxxxyyyyCD-2, RKPO-zzxxxyyyyCD-1

Figure 36. Output connector view of RKPO-zzxxxyyyyDP-2

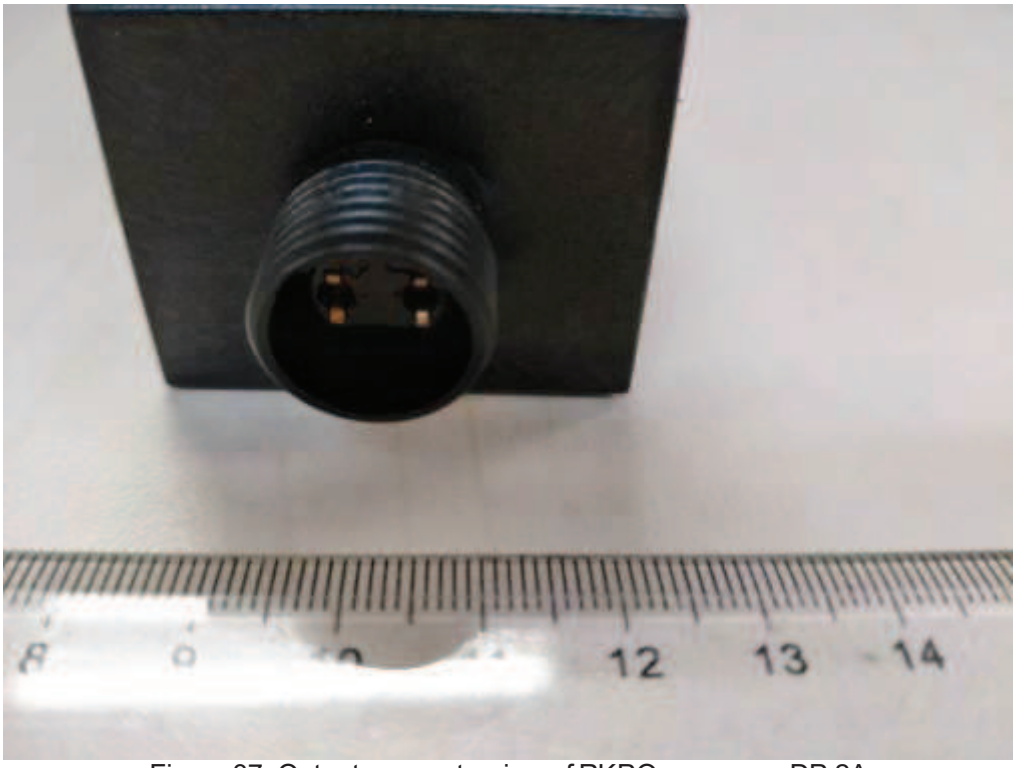


Figure 37. Output connector view of RKPO-zzxxxyyyyDP-2A

Figure 38. Internal view of RKPO-zzxxxyyyy, RKPO-zzxxxyyyy-D1, RKPO-zzxxxyyyy-D2

Figure 39. Internal view of RKPO-EUxxxyyyy

Figure 40. Internal view of RKPO-UKxxxyyyy

Figure 41. Internal view of RKPO-UKxxxyyyy-D2

Figure 42. Internal view of RKPO-UKxxxyyyy-D1

Figure 43. Internal view of RKPO-zzxxxyyyyCD-5 (with glue)

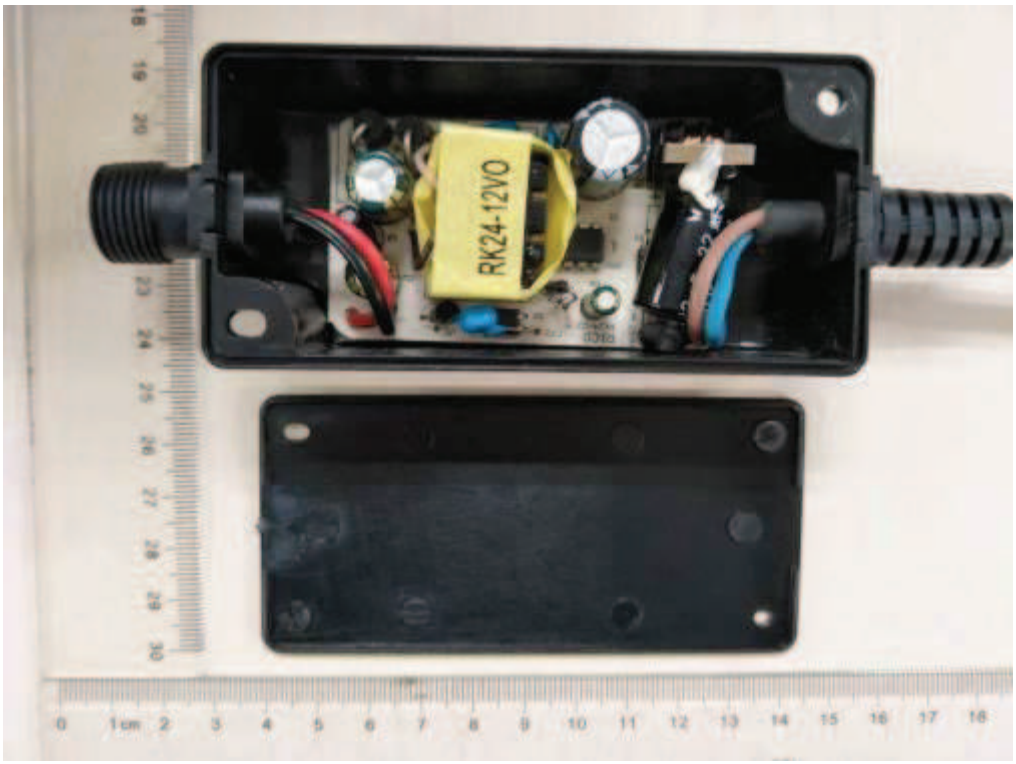


Figure 44. Internal view of RKPO-zzxxxyyyyCD-5 (without glue)

Product: LED Power Supply

Type Designation: See test report

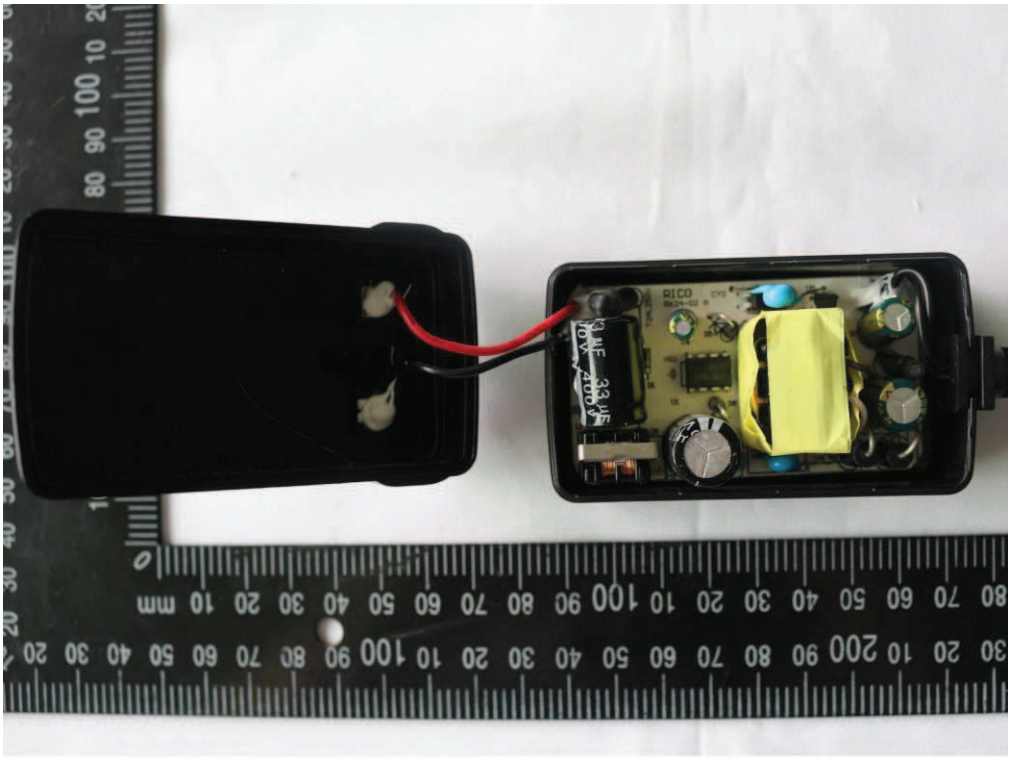


Figure 45. Internal view of RKP-UKxxxyyyyDP-5

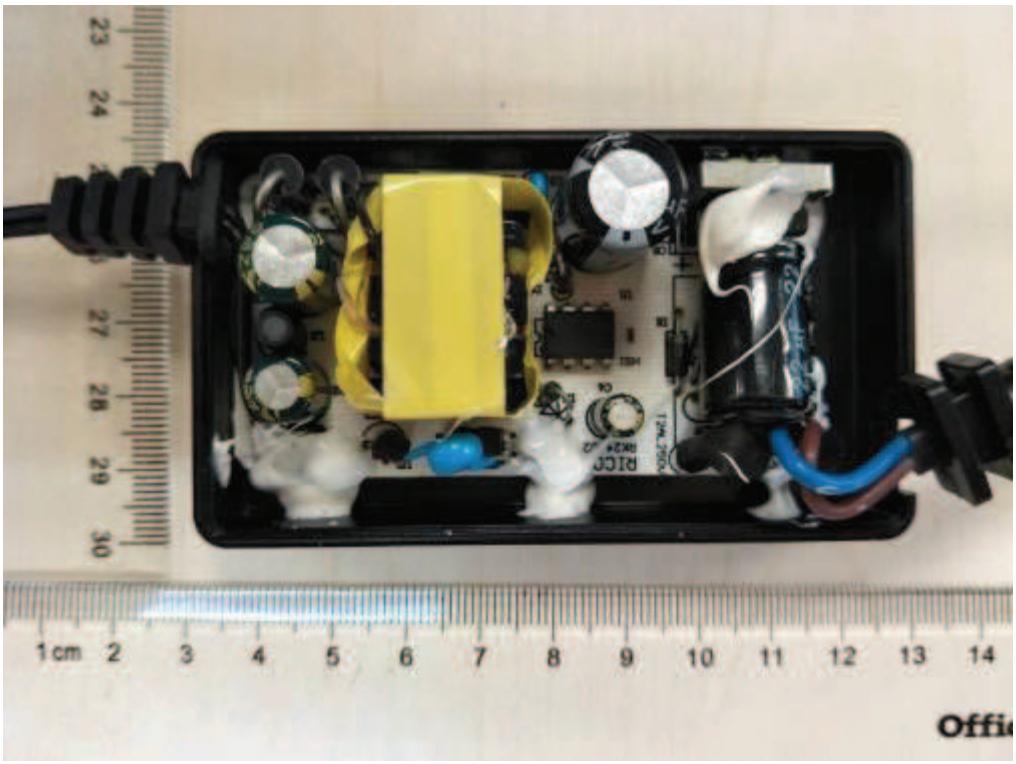


Figure 46. Internal view of RKP-zzxxxyyyyCD-5

Product: LED Power Supply

Type Designation: See test report

Figure 47. Internal view of RKPO-EUxxxyyyyDP-2

Figure 48. Internal view of RKPO-UKxxxyyyyDP-2

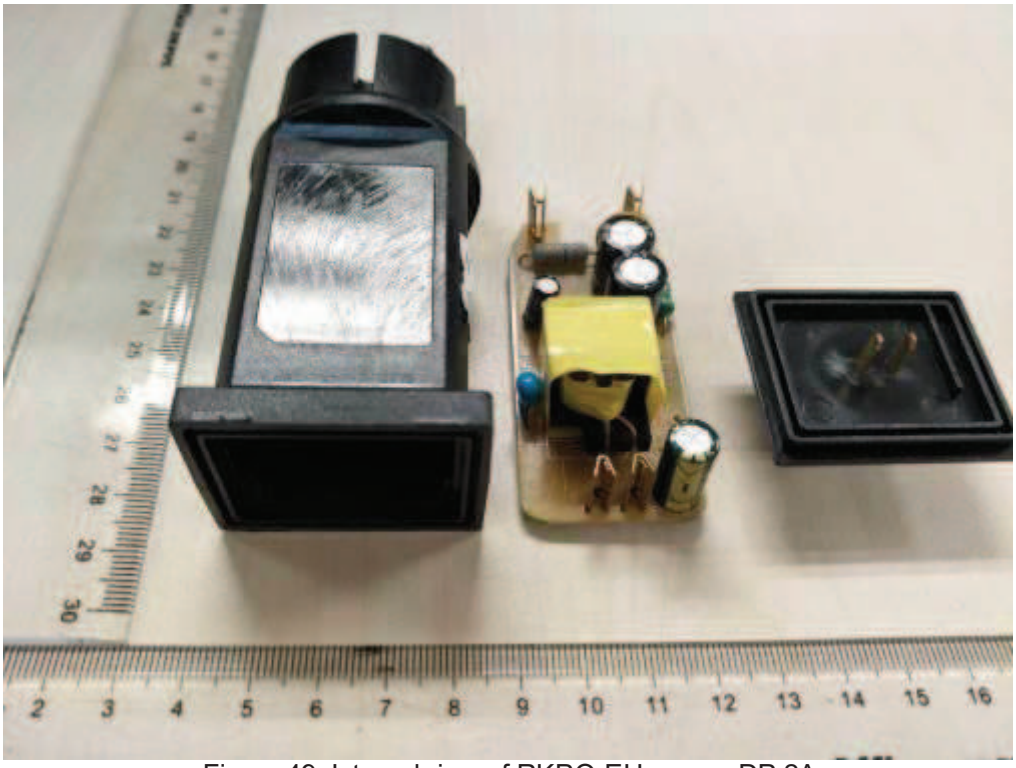


Figure 49. Internal view of RKPO-EUxxxyyyyDP-2A

Figure 50. Internal view of RKPO-zzxxxyyyyCD-2 (with glue)

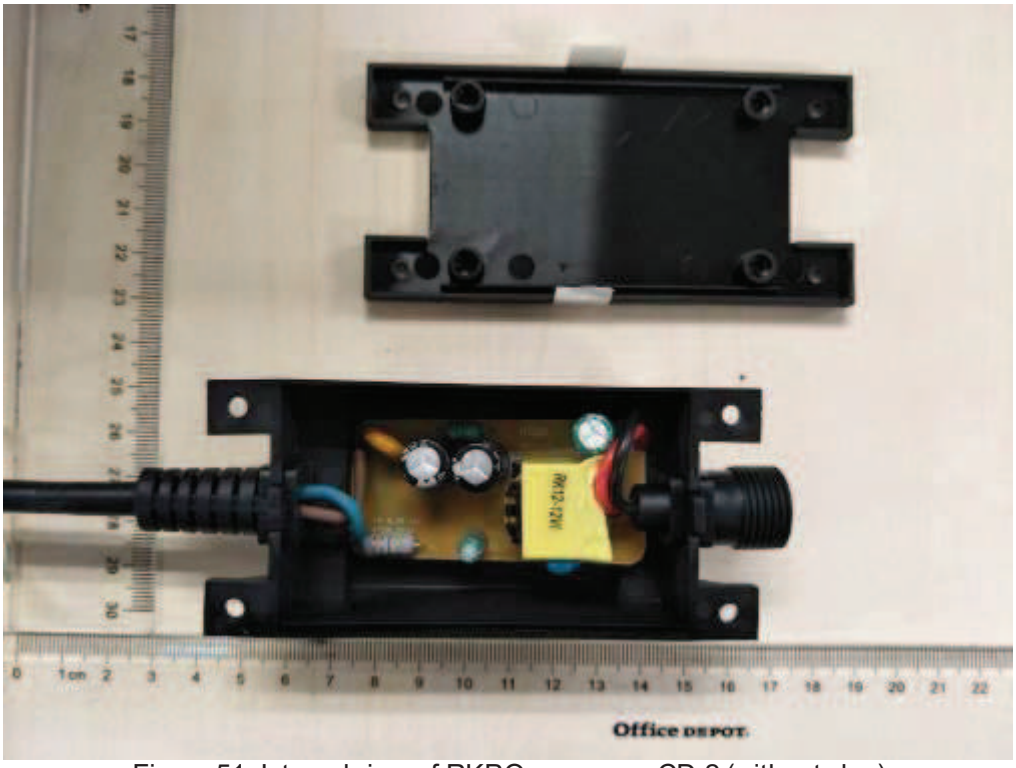


Figure 51. Internal view of RKPO-zzxxxyyyyCD-2 (without glue)

Figure 52. Internal view of RKP-EUxxxyyyyDP-2

Product: LED Power Supply

Type Designation: See test report

Figure 53. Internal view of RKP-UKxxxyyyyDP-2

Figure 54. Internal view of RKPO-zzxxxyyyyCD-1 (with glue)

Product: LED Power Supply

Type Designation: See test report

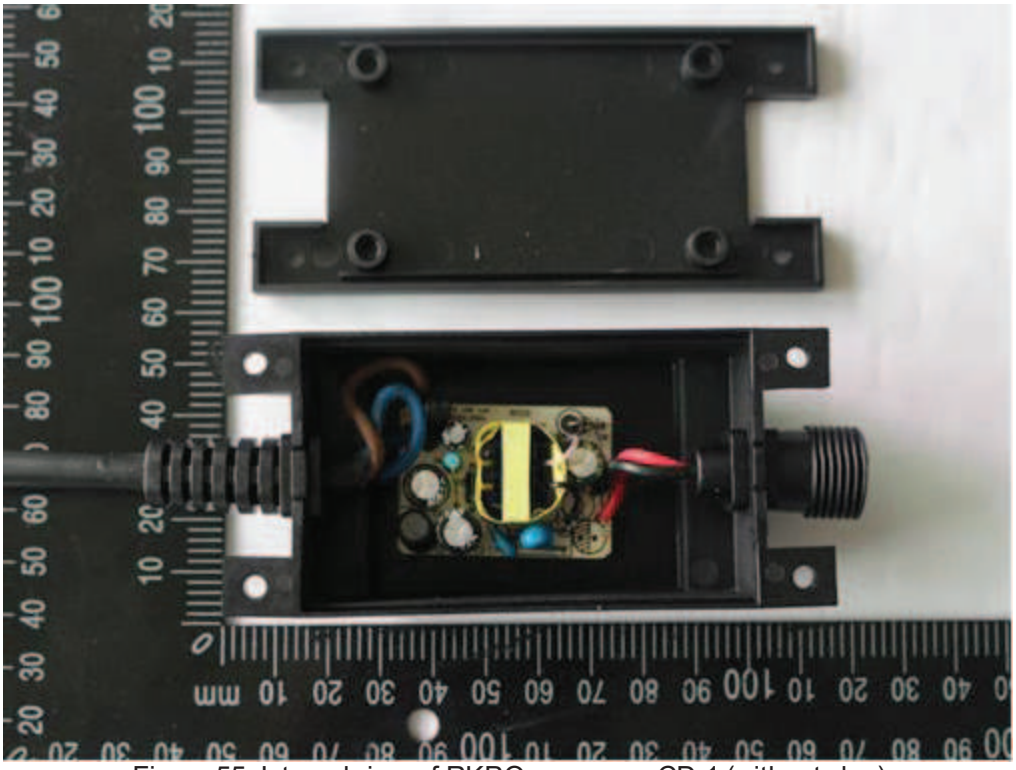


Figure 55. Internal view of RKPO-zzxxxyyyyCD-1 (without glue)

Figure 56. Internal view of RKP-EUxxxyyyyDP-1

Product: LED Power Supply

Type Designation: See test report

Figure 57. Internal view of RKP-UKxxxyyyyDP-1

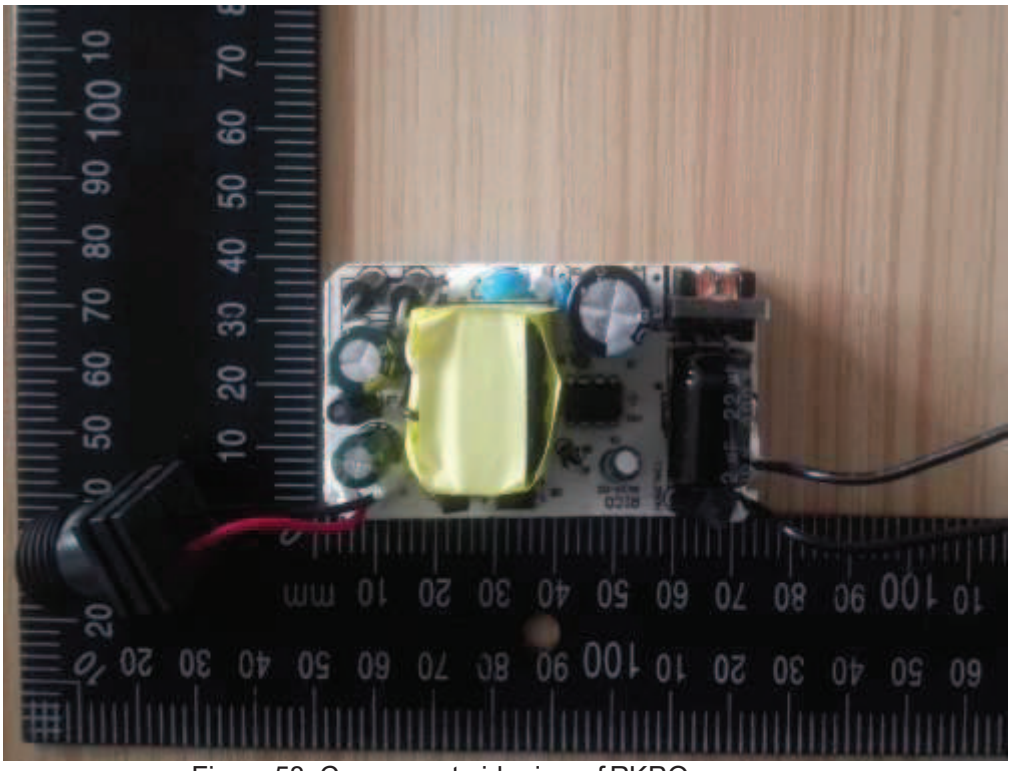


Figure 58. Component side view of RKPO-zzxxxyyyy

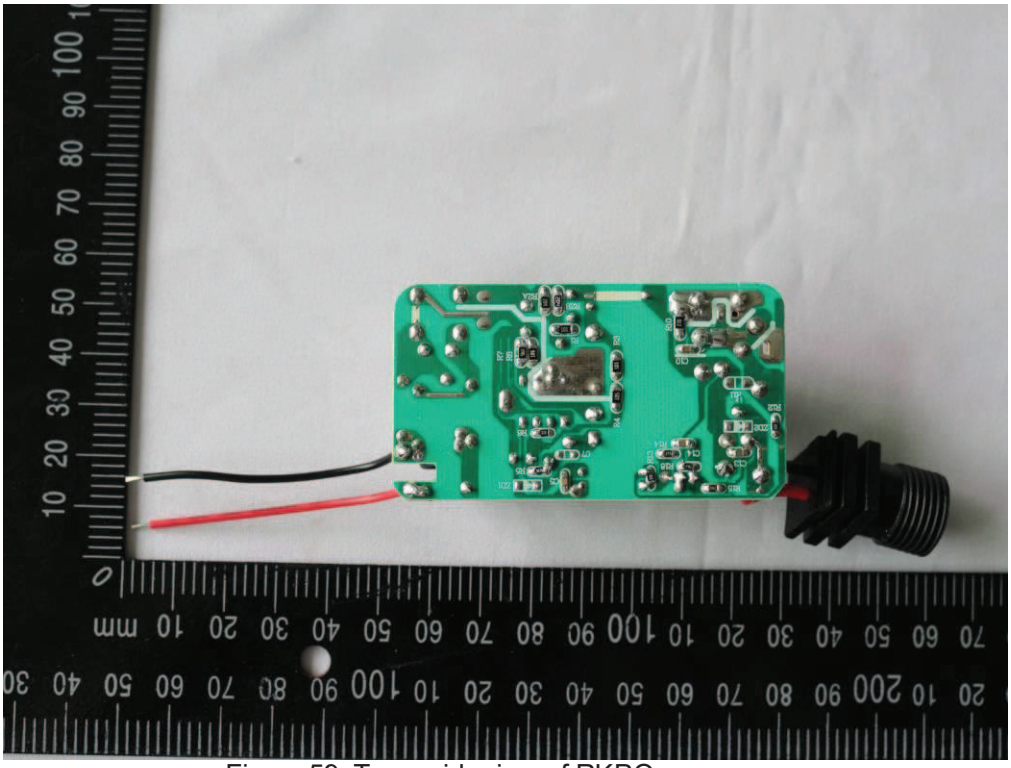


Figure 59. Trace side view of RKPO-zzxxxyyyy

Figure 60. Component side view of RKPO-zzxxxyyyy-D2 (after removed glue)

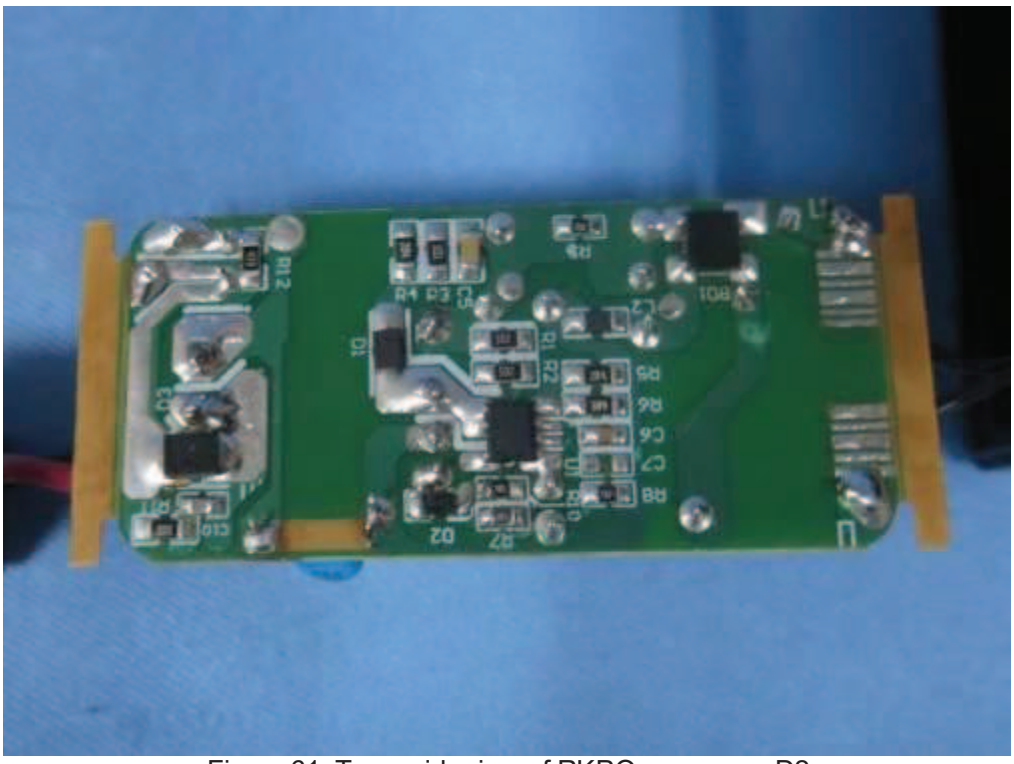


Figure 61. Trace side view of RKPO-zzxxxyyyy-D2

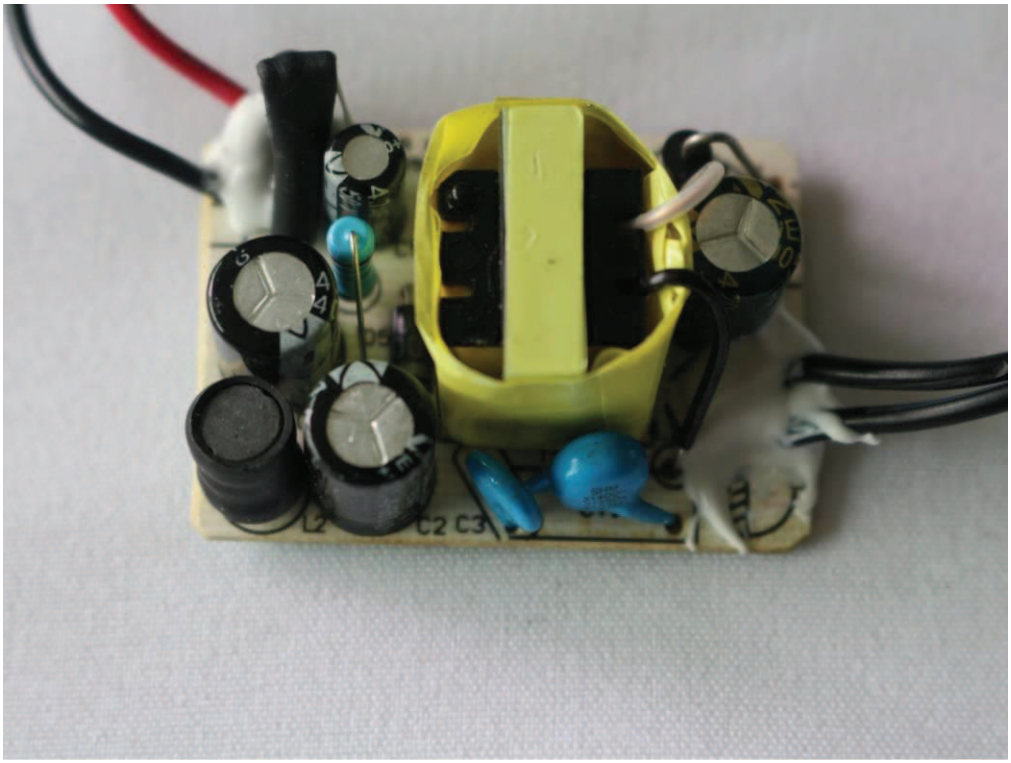


Figure 62. Component side view of RKPO-zzxxxyyyy-D1 (after removed glue)

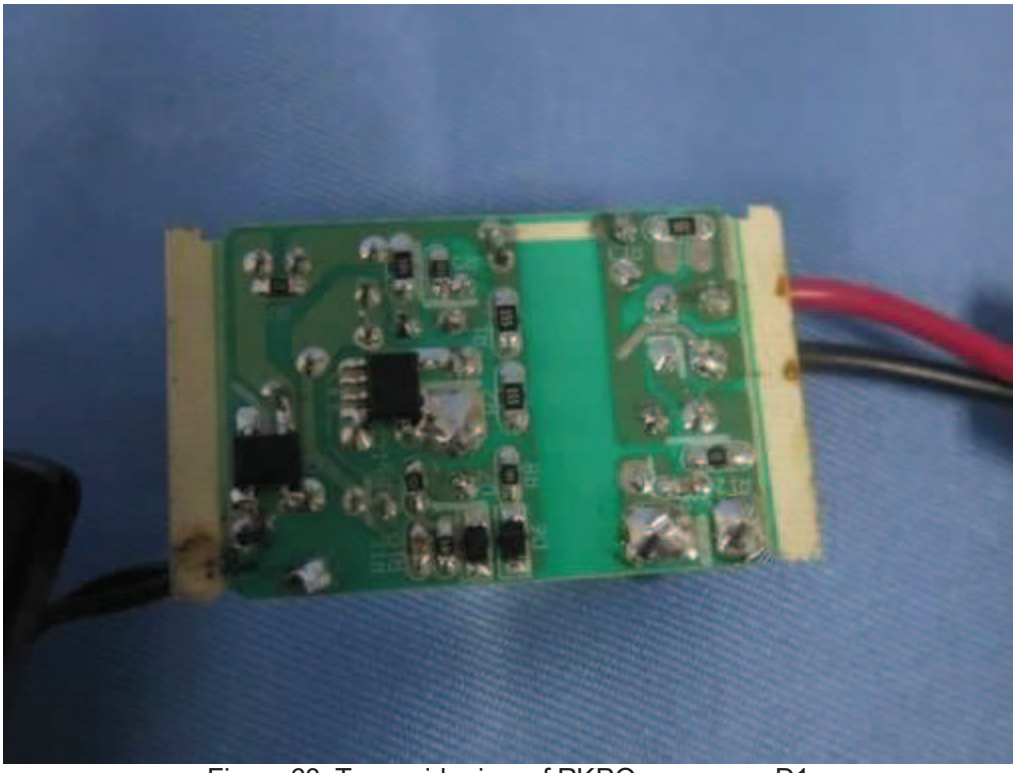


Figure 63. Trace side view of RKPO-zzxxxyyyy-D1

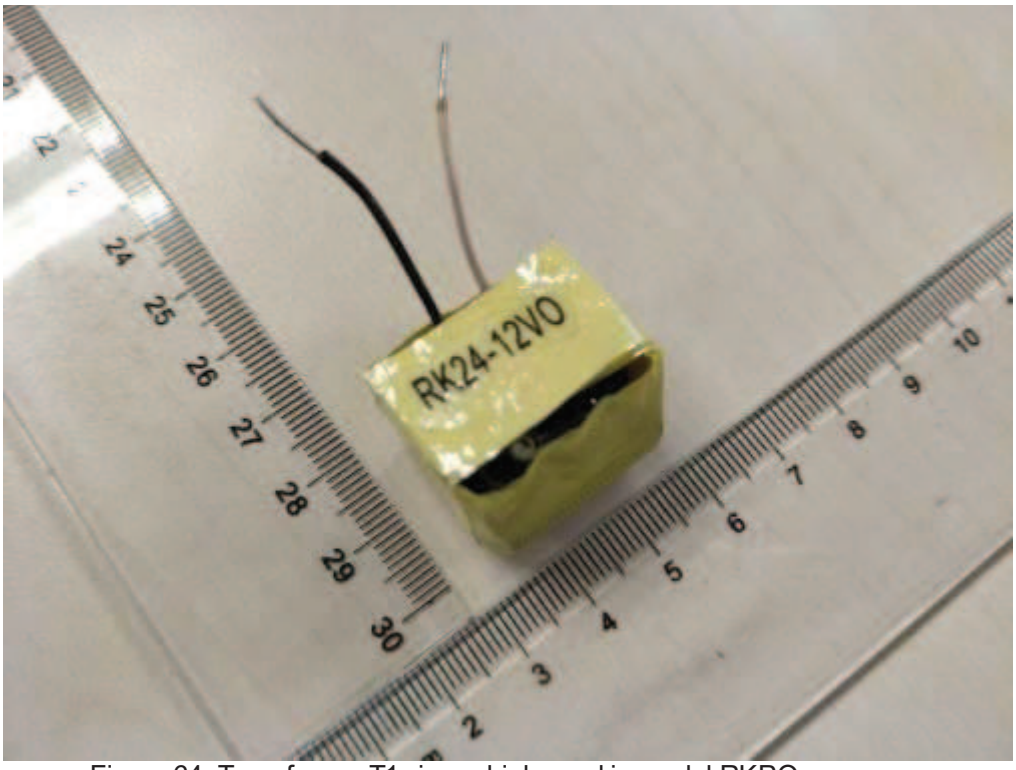


Figure 64. Transformer T1 view which used in model RKPO-zzxxxyyyy

Product: LED Power Supply

Type Designation: See test report

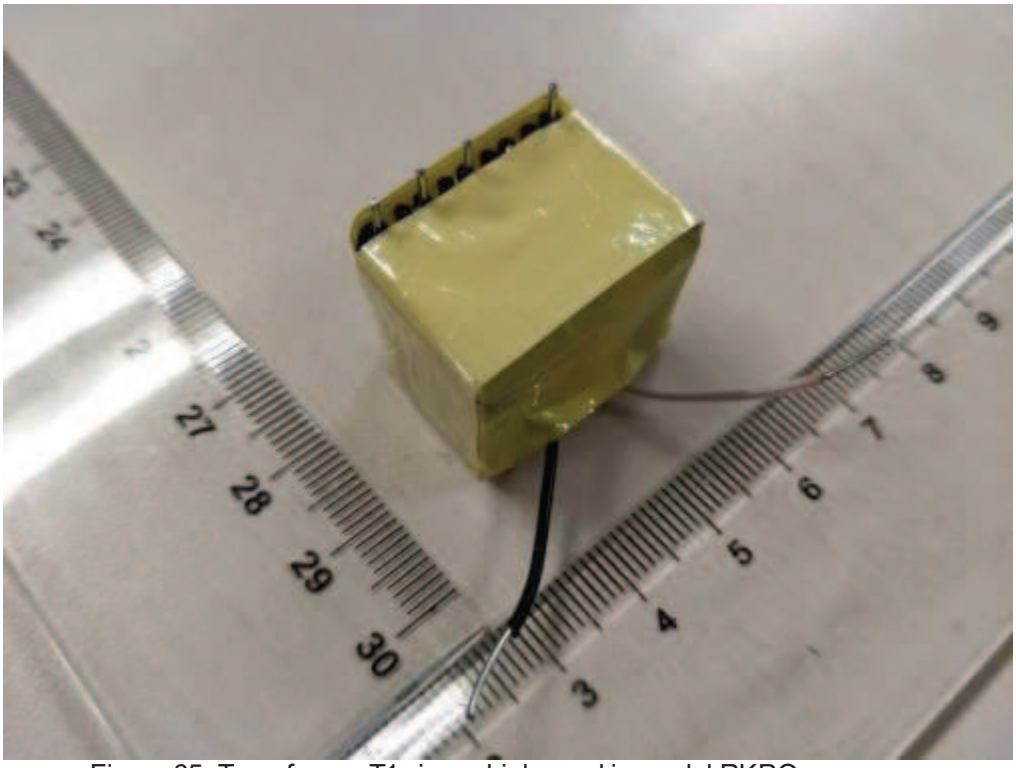


Figure 65. Transformer T1 view which used in model RKPO-zzxxxyyyy

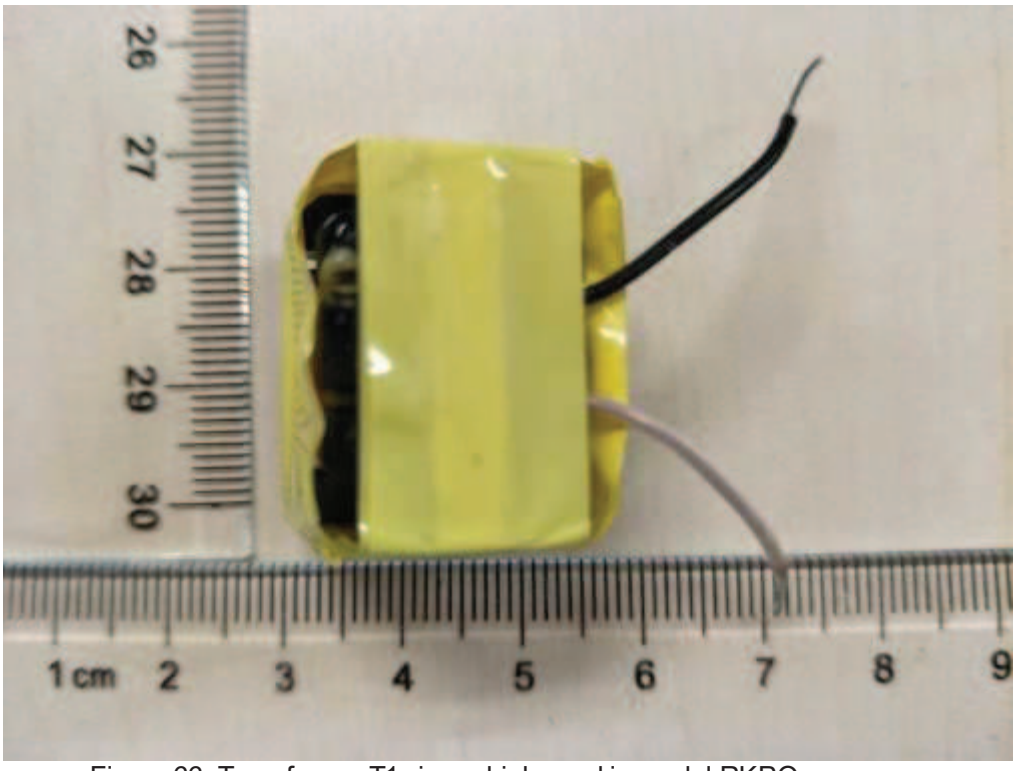


Figure 66. Transformer T1 view which used in model RKPO-zzxxxyyyy

Product: LED Power Supply

Type Designation: See test report

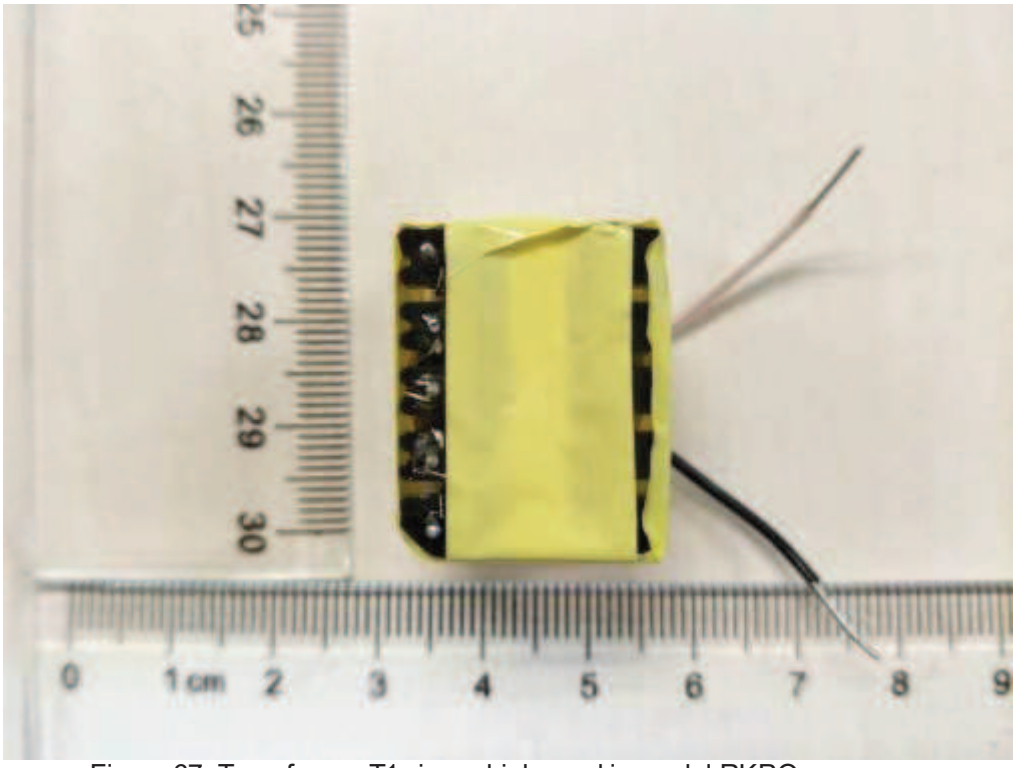


Figure 67. Transformer T1 view which used in model RKPO-zzxxxyyyy

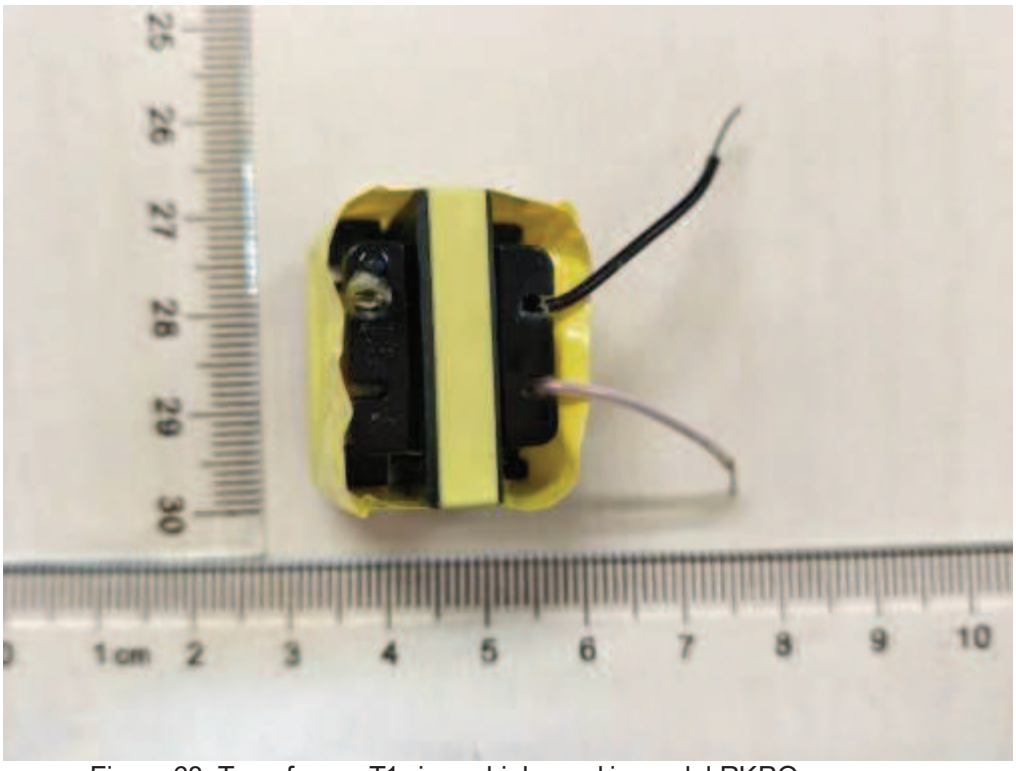


Figure 68. Transformer T1 view which used in model RKPO-zzxxxyyyy

Product: LED Power Supply

Type Designation: See test report

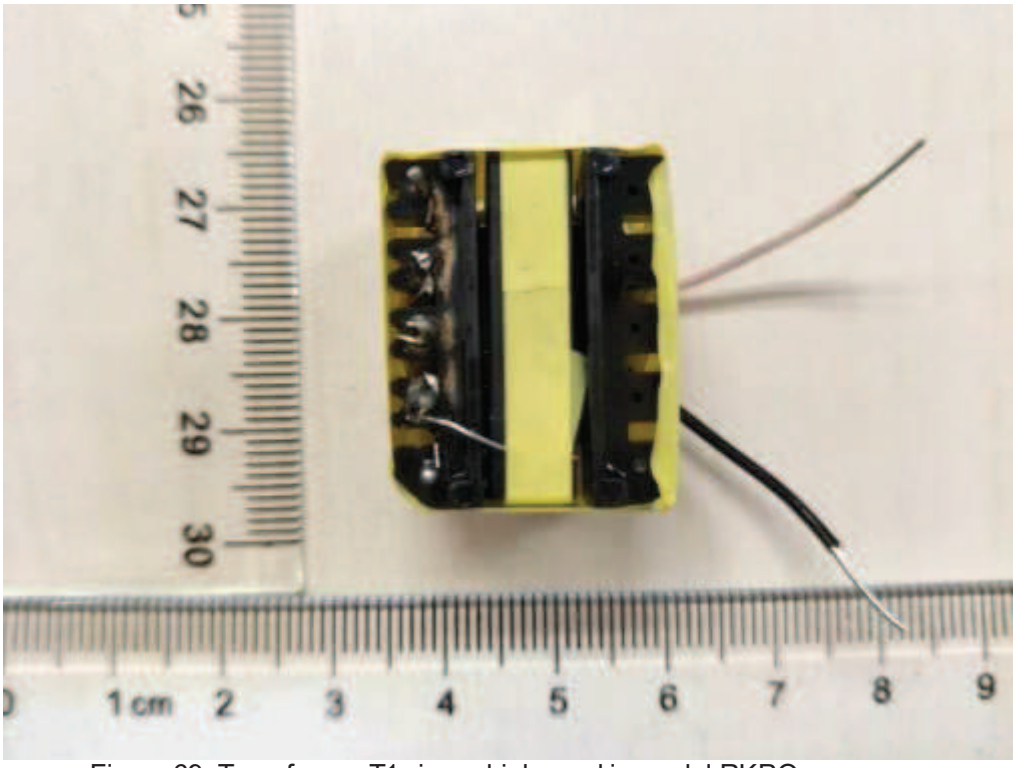


Figure 69. Transformer T1 view which used in model RKPO-zzxxxyyyy

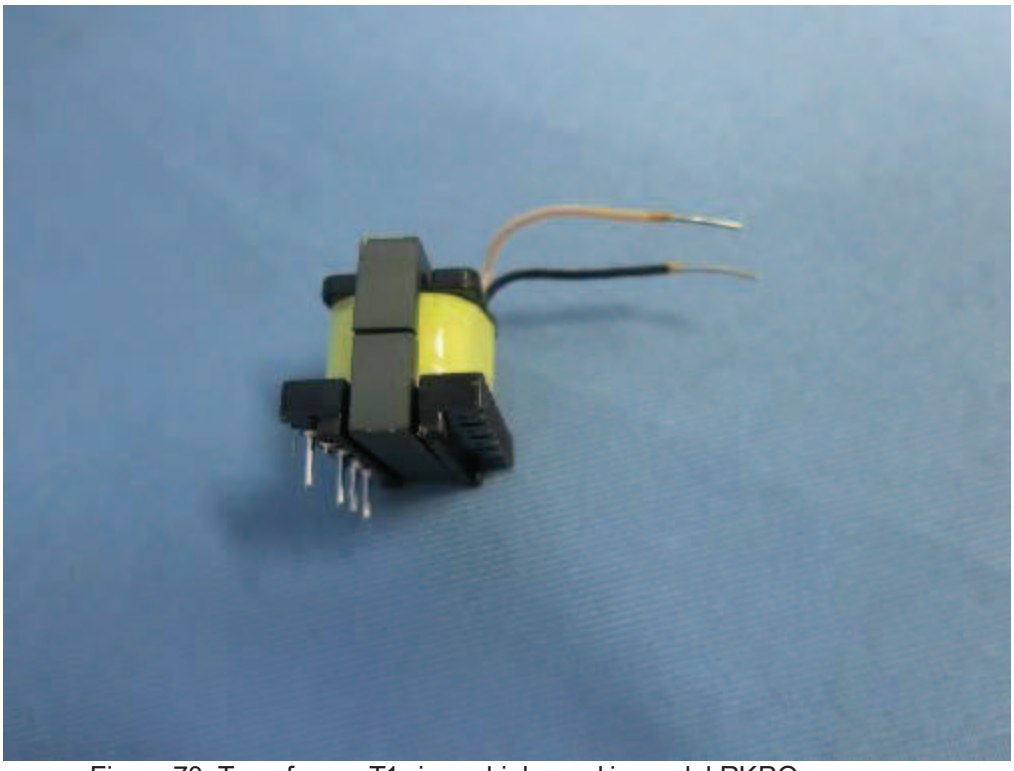


Figure 70. Transformer T1 view which used in model RKPO-zzxxxyyyy

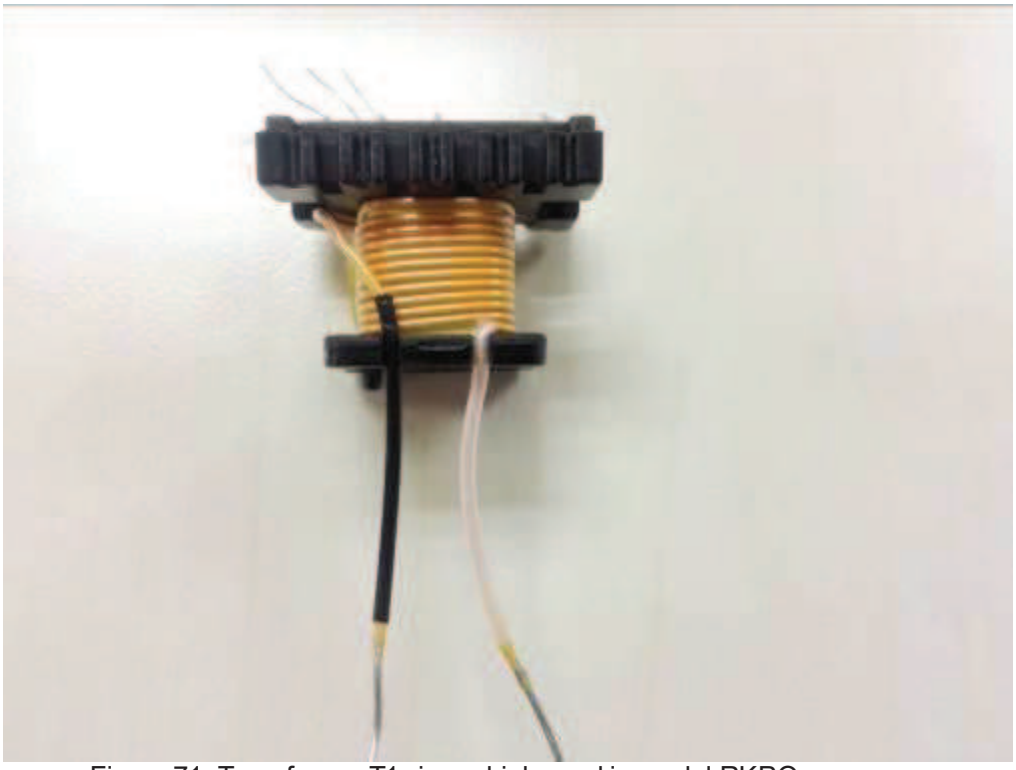


Figure 71. Transformer T1 view which used in model RKPO-zzxxxyyyy

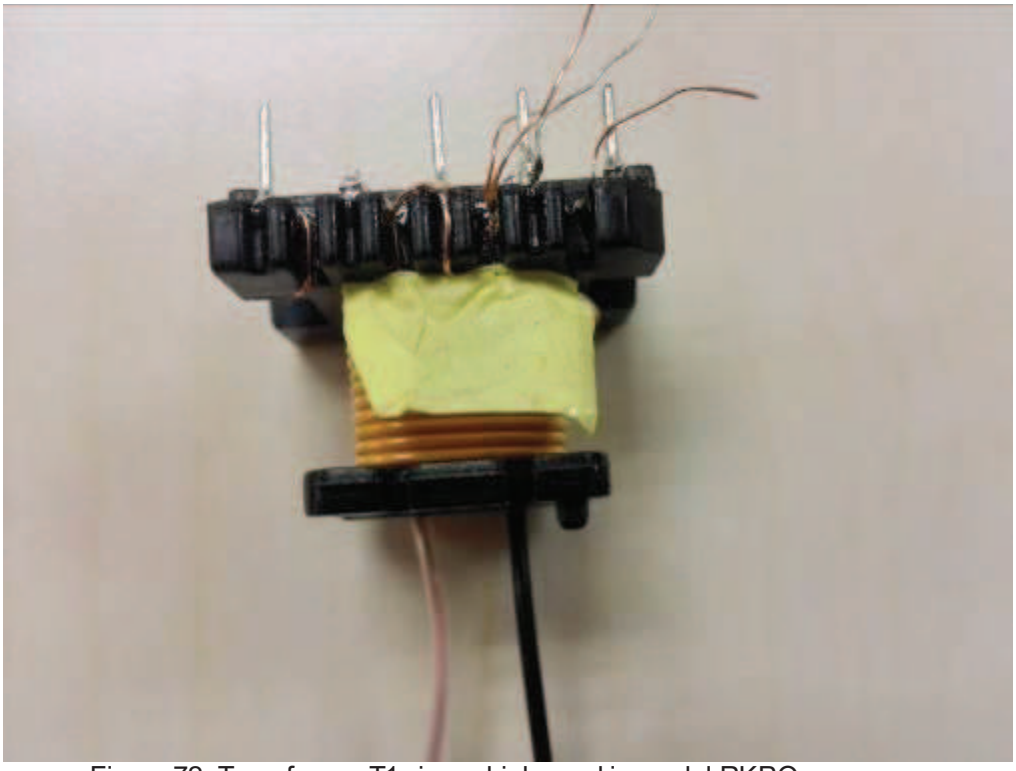


Figure 72. Transformer T1 view which used in model RKPO-zzxxxyyyy

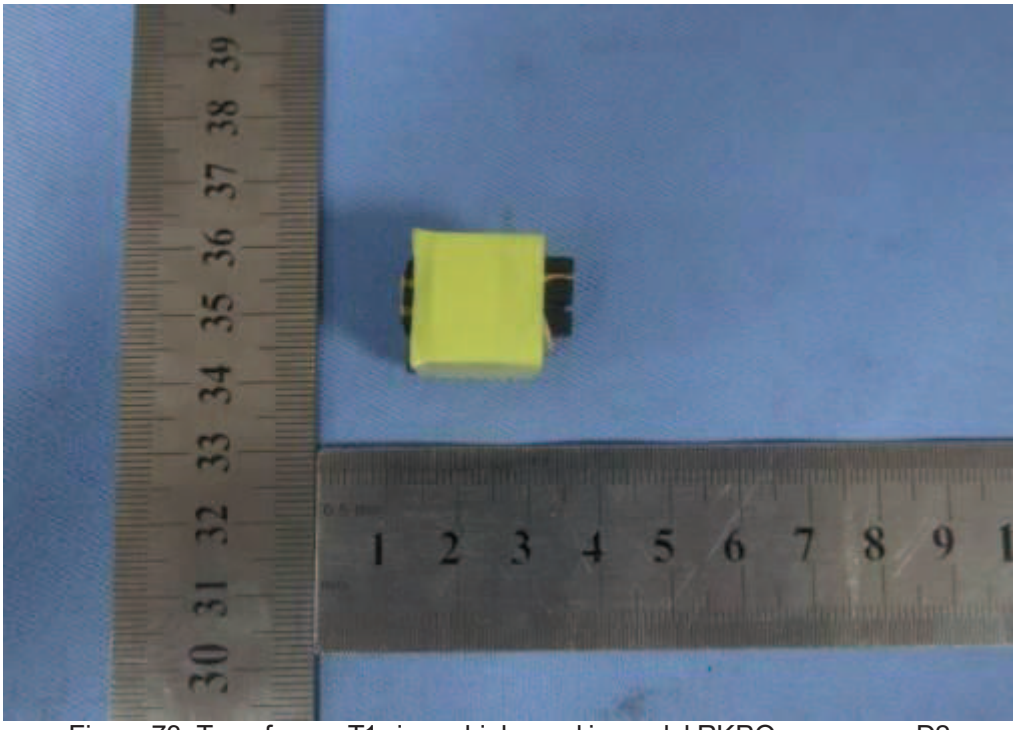


Figure 73. Transformer T1 view which used in model RKPO-zzxxxyyyy-D2

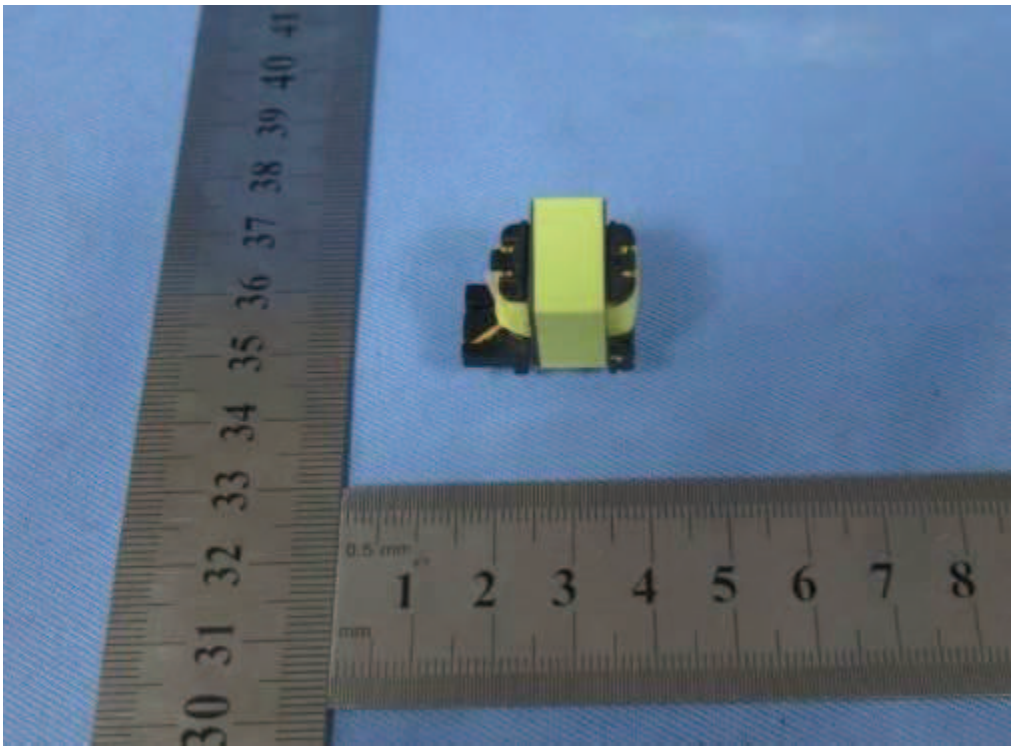


Figure 74. Transformer T1 view which used in model RKPO-zzxxxyyyy-D2

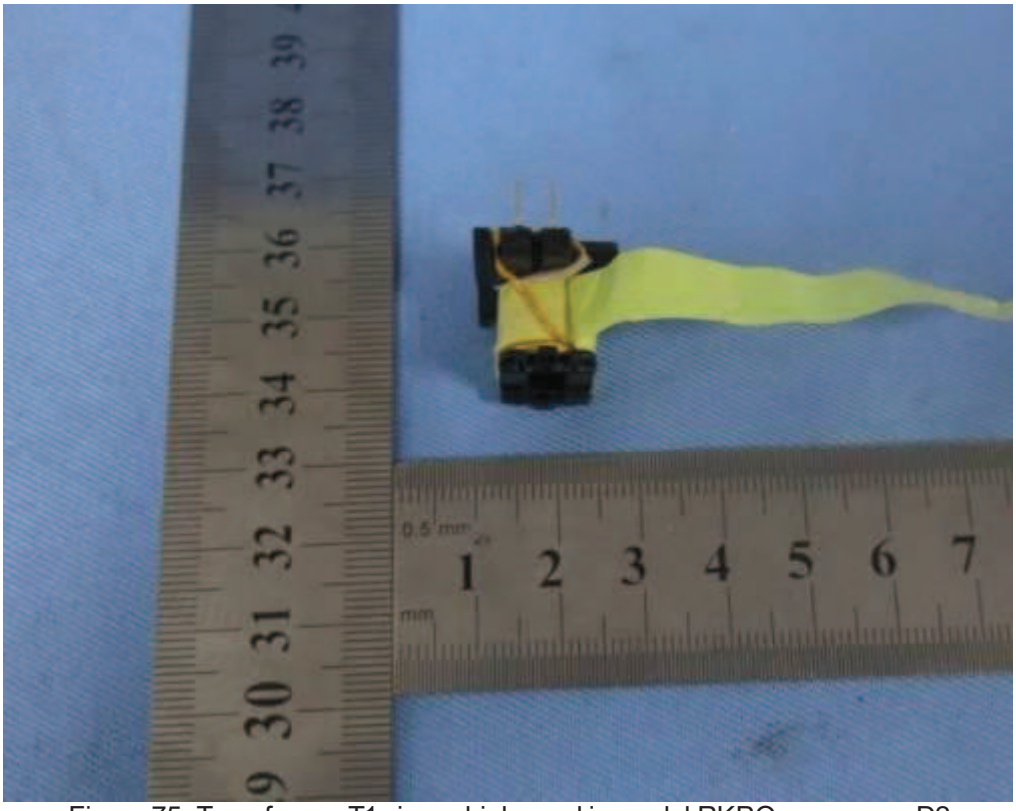


Figure 75. Transformer T1 view which used in model RKPO-zzxxxyyyy-D2

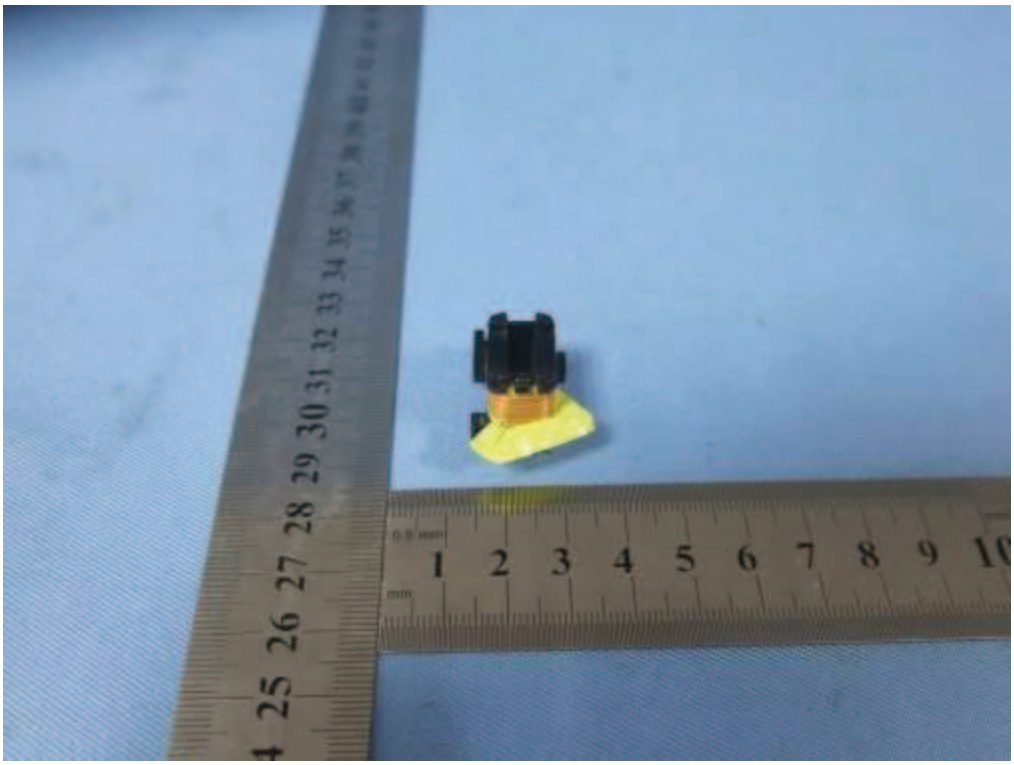


Figure 76. Transformer T1 view which used in model RKPO-zzxxxyyyy-D2 (Insulation tape fold back used between primary winding and secondary TIW where can contact at angle 45-90

Product: LED Power Supply

Type Designation: See test report

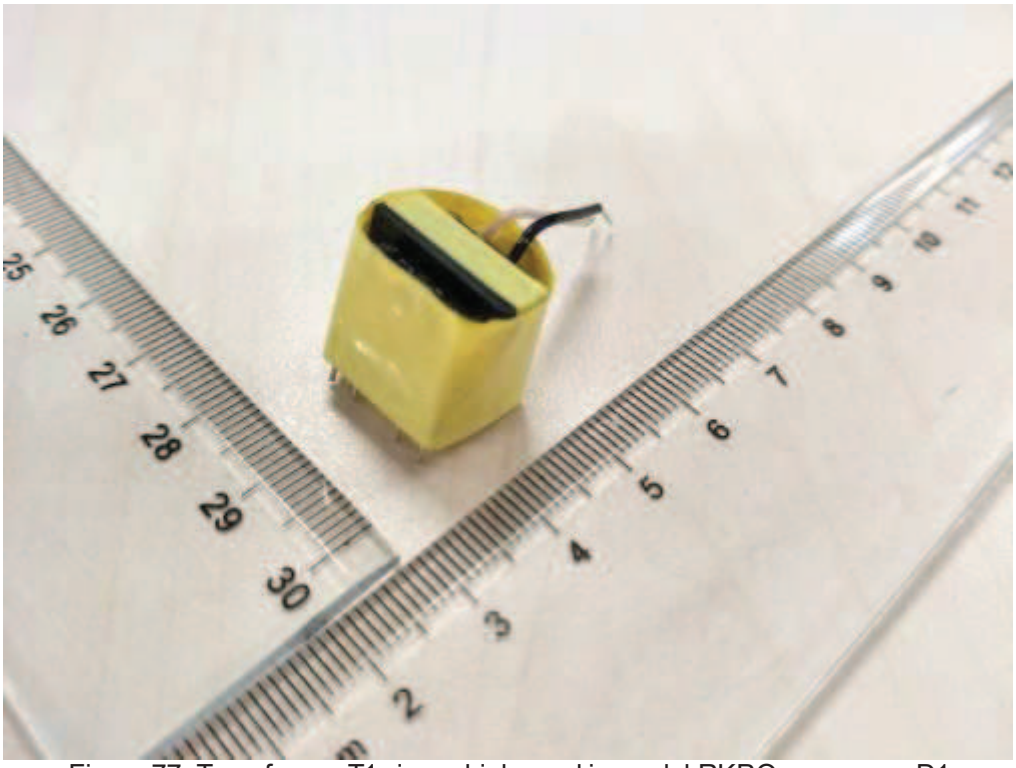


Figure 77. Transformer T1 view which used in model RKPO-zzxxxyyyy-D1

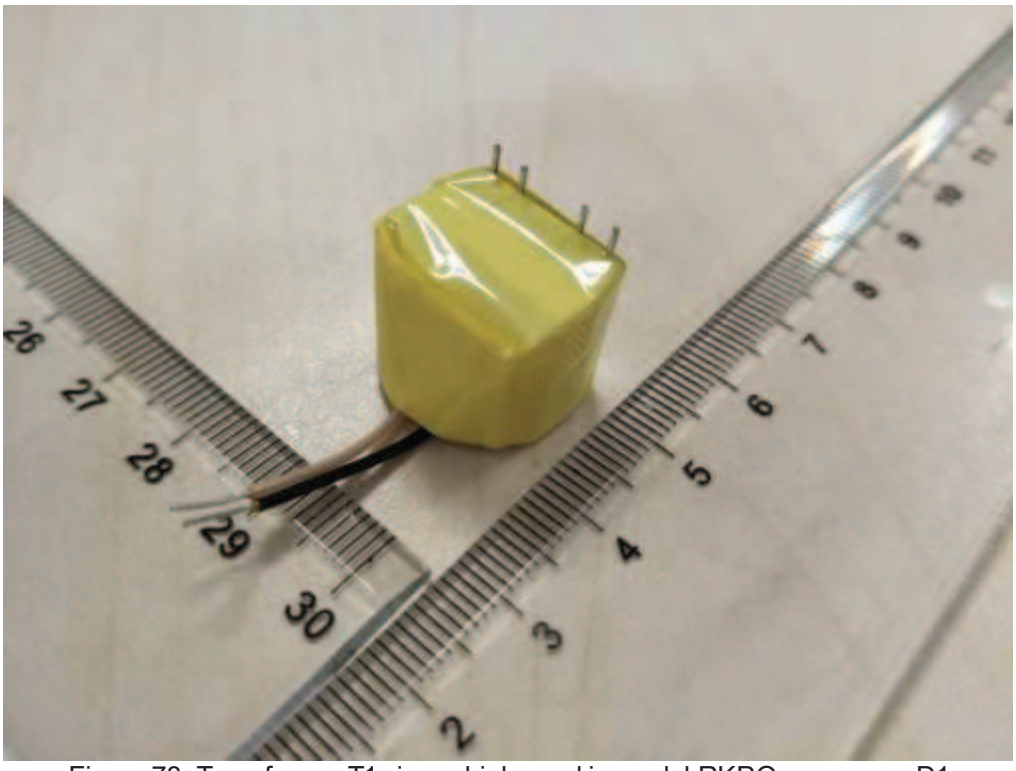


Figure 78. Transformer T1 view which used in model RKPO-zzxxxyyyy-D1

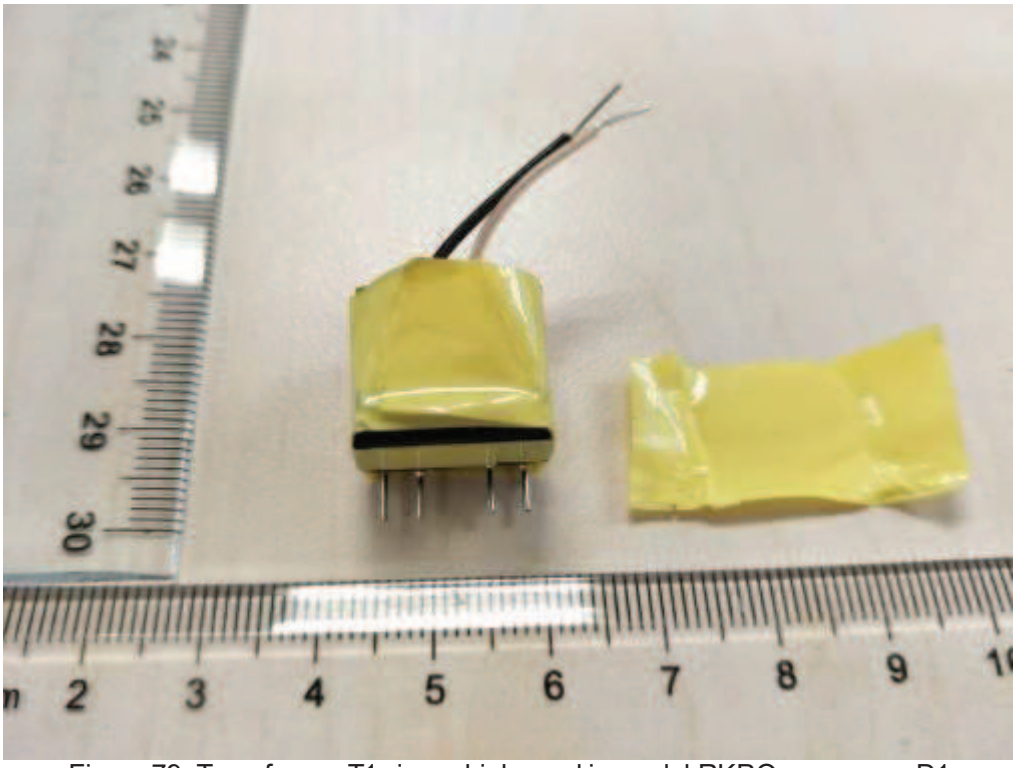


Figure 79. Transformer T1 view which used in model RKPO-zzxxxyyyy-D1

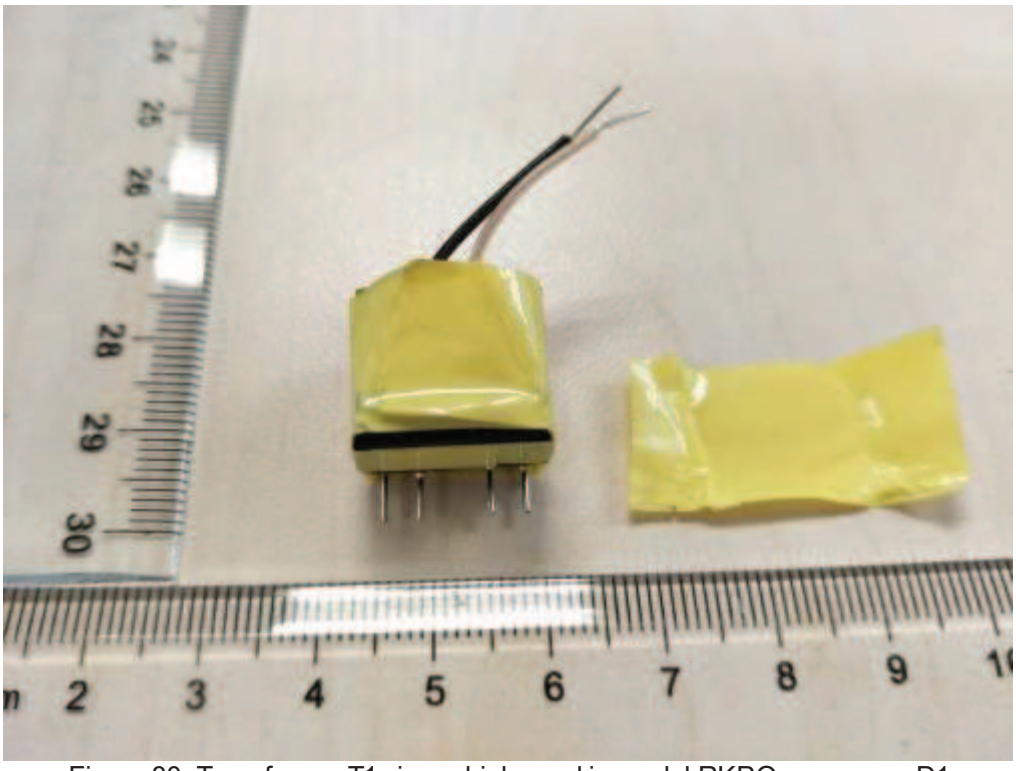


Figure 80. Transformer T1 view which used in model RKPO-zzxxxyyyy-D1

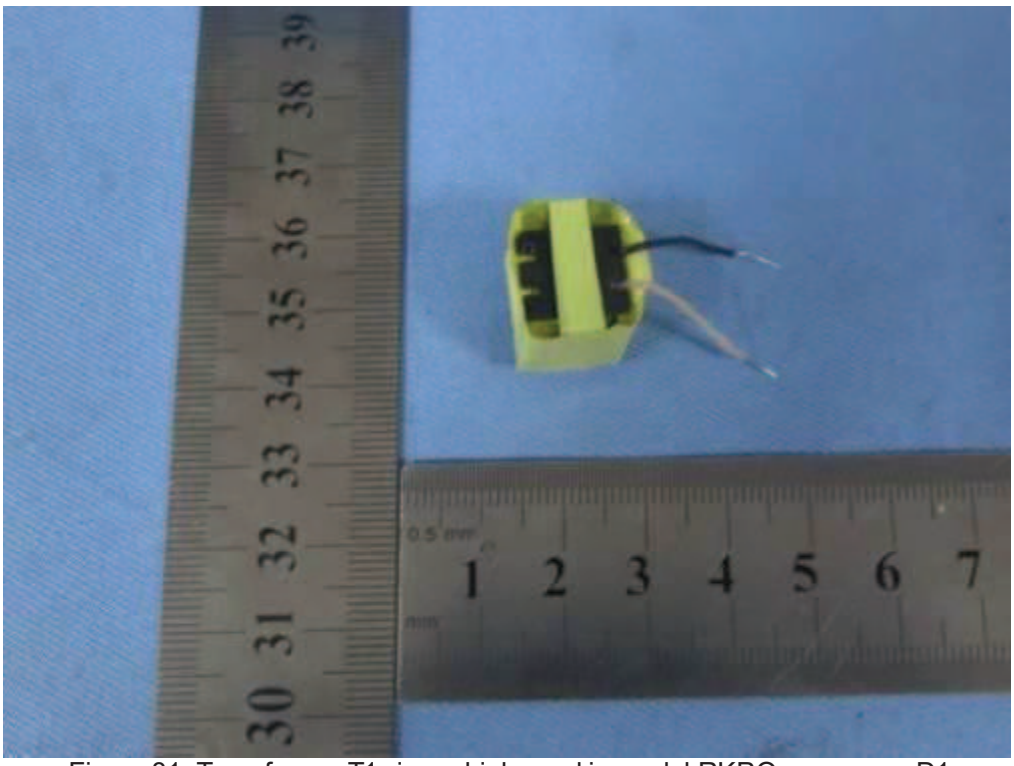


Figure 81. Transformer T1 view which used in model RKPO-zzxxxyyyy-D1

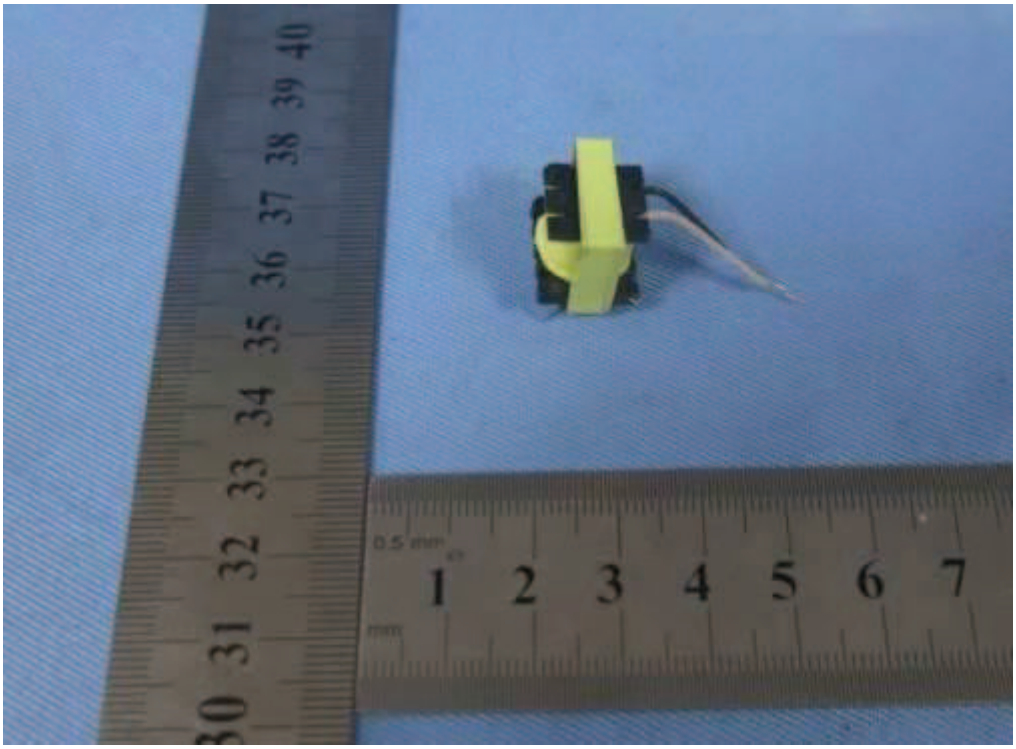


Figure 82. Transformer T1 view which used in model RKPO-zzxxxyyyy-D1

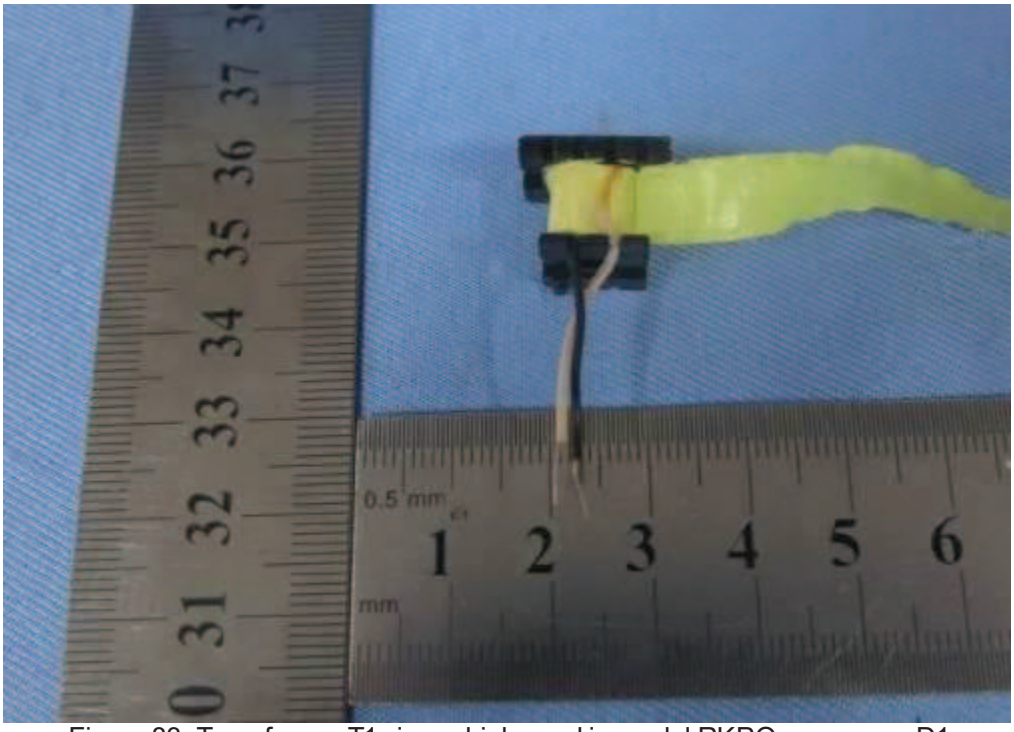


Figure 83. Transformer T1 view which used in model RKPO-zzxxxyyyy-D1

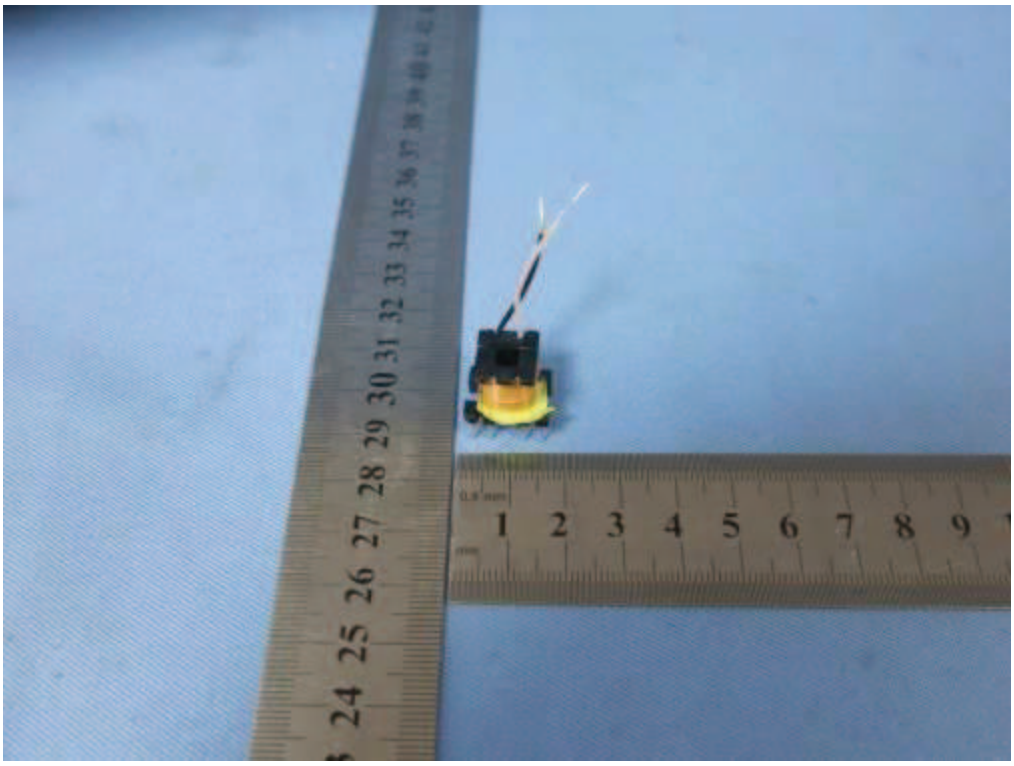


Figure 84. Transformer T1 view which used in model RKPO-zzxxxyyyy-D1 (Insulation tape fold back used between primary winding and secondary TIW where can contact at angle 45-90)