Classic Instrumentation Pvt. Ltd.

ULR No. : TC509924200000379F

DOC No.	:	SC24EPF05482_1
Telephone	:	+91 9810285868
FAX	:	-
E-Mail	:	classiclab@gmail.com
BO Code	:	NA

C-45, SECTOR-65, Noida, Gautam Buddha Nagar, Uttar Pradesh, India - 201301

Test REPORT AS PER : IS 13252 : Part 1 (2010)

QR Code/Barcode : 186213CRS

REPORT NO : SC24EPF05482_1 DATE : 20 Jun, 2024

PART A. PARTICULARS OF SAMPLE SUBMITTED

a) Customer Name & Address	:	Globtek (Suzhou) Co.,Ltd NO.76 JINLING EAST ROAD, SUZHOU INDISTRIAL PARK, CHINA, NA, China - 0
b) Nature of sample	:	-
c) Grade/Variety/Type/Class Size etc	:	NA
d) Declare values, if any	:	-
e) Batch No. & Date of Manufacture	:	/
f) Quantity	:	4
g) Date of Receipt	:	01 Apr, 2024
h) BIS Seal	:	Verified by Sample Cell
i) IO's Signature	:	Verified by Sample Cell
j) Any other Information / Expiry Date, If any	:	/
k) Date of Commencement of Testing	:	01 Apr, 2024
l) Date of Completion of Testing	:	20 Jun, 2024
m) Section Code	:	24E9AFEN
n) Section Report No.	:	24E9AFEN_1
o) Report Type	:	New
p) Reference Report No.	:	
q) Remarks	:	General remarks (If any): 1. The test results presented in this report relate only to the object tested. 2. This report shall not be reproduced, except in full, without the written approval of the issuing testing laboratory. 3. The Testing Standards/Instruments used are maintained in accordance with IS/ISO/IEC 17025 and are traceable to National and International standards.

Surbhi Jain
OIC SAMPLE CELL
(Authorized Signatory)
Authorized on: 20 Jun, 2024 16:28 PM

1. Classic Instrumentation Pvt. Ltd.

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PART B. SUPPLEMENTARY INFORMATION

1.	Reference to sampling procedure, wherever applicable.	Not Applicable
2.	Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test report, if any.	Yes
3.	Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any.	No
3.	NABL Report required ?	No

Abhishek Kumar Singh
OIC Electrical
(Authorized Signatory)
Authorized on: 20 Jun, 2024 16:27 PM

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PART C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation
1	7.4	Insulation between primary circuits and cable distribution systems	Insulation between primary circuits and cable distribution systems	-	-	-	Test Not Applicable
2	7.3	Protection of equipment users from overvoltages on the cable distribution system	Protection of equipment users from overvoltages on the cable distribution system	-	-	-	Test Not Applicable
3	7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment	-	-	-	Test Not Applicable
4	7.1	General	Connection to cable distribution systems	-	-	-	Test Not Applicable
5	6.3	Protection of the telecommunication wiring system from overheating	Protection of the telecommunication wiring system from overheating	-	-	-	Test Not Applicable
6	6.2	Protection of equipment users from overvoltages on networks telecommunication	Protection of equipment users from overvoltages on networks telecommunication	-	-	-	Test Not Applicable
7	6.1	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment	-	-	-	Test Not Applicable
8	5.3	Abnormal operating and fault conditions	Abnormal operating and fault conditions test	-	-	-	Satisfactory
9	5.2	Electric strength	To Check Insulation as per Clause 5.2,5.2.1,5.2.2	-	-	-	Satisfactory
10	5.1	Touch current and protective conductor curren	Cl. 5.1	-	-	-	Satisfactory
11	4.7	Resistance to fire	Clause 4.7, 4.7.1, 4.7.2, 4.7.2.1, 4.7.2.2, 4.7.3, 4.7.3.1	-	-	-	Satisfactory
12	4.6	Openings in enclosures	Openings in enclosures	-	-	-	Test Not Applicable
13	4.5	Thermal requirements	Temperature rise measurement Test	-	-	-	Satisfactory
14	4.4	Protection against hazardous moving parts	Protection against hazardous moving parts	-	-	-	Test Not Applicable
15	4.3	Design and construction	Design and construction	-	-	-	Satisfactory
16	4.2	Mechanical strength	Mechanical Strength Test	-	-	-	Satisfactory

17	4.1	Stability	Clause 4.1 Stability	-	-	-	Test Not Applicable
18	3.5	Interconnection of equipment	Clause 3.5, 3.5.1, 3.5.2, 3.5.4	-	-	-	Satisfactory
19	3.4	Disconnection from the mains supply	Appliance inlet is considered as disconnect device	-	-	-	Satisfactory
20	3.3	Wiring terminals for connection of external conductors	Wiring terminals for connection of external conductors	-	-	-	Test Not Applicable
21	3.2	Connection to a mains supply	Clause 3.2: Connection to a mains supply	-	-	-	Satisfactory
22	3.1	General	Clause 3.0, 3.1.1, 3.1.2, 3.1.3	-	-	-	Satisfactory
23	2.10	Clearances, creepage distances and distances through insulation	Clause 2.10, 2.10.1.2, 2.10.1.3, 2.10.3, 2.10.3.4	-	-	-	Satisfactory
24	2.9	Electrical insulation	Clause 2.9 Electrical insulation	-	-	-	Satisfactory
25	2.8	Safety interlocks	Clause 2.8 Safety Interlocks-	-	-	-	Test Not Applicable
26	2.7	Overcurrent and earth fault protection in primary circuits	Certified Fuse is provided for protection against short – circuits and overcurrent. The building installation consider as short-circuit backup protection.	-	-	-	Satisfactory
27	2.6	Provisions for earthing and bonding	Clause 2.6 Provisions for earthing and bonding	-	-	-	Satisfactory
28	2.5	Limited power sources .	Limited power sources test perform on Secondary Li-ion battery pack	-	-	-	Satisfactory
29	2.4	Limited current circuits	Limited current circuits	-	-	-	Satisfactory
30	2.3	TNV circuits	TNV circuits	-	-	-	Test Not Applicable
31	2.2	SELV circuits	Clause 2.2: SELV circuits	-	-	-	Satisfactory
32	2.1	Protection from electric shock and energy hazards	Clause 2.1: Protection from electric shock and energy hazards	-	-	-	Satisfactory
33	1.7	Markings and instructions	Clause: 1.7.11 (Durability) Rubbing the marking by hand for 15s with a piece of cloth soaked with water and again for 15 s with a piece of cloth soaked with petroleum spirit.	-	-	-	Satisfactory
34	1.6	Power interface .	Input current Measurement	-	-	-	Satisfactory

Abhishek Kumar Singh
OIC Electrical
(Authorized Signatory)
Authorized on: 20 Jun, 2024 16:27 PM

This is a Computer Generated Report.

PART D. REMARKS

General remarks (If any): 1. The test results presented in this report relate only to the object tested. 2. This report shall not be reproduced, except in full, without the written approval of the issuing testing laboratory. 3. The Testing Standards/Instruments used are maintained in accordance with IS/ISO/IEC 17025 and are traceable to National and International standards.

Abhishek Kumar Singh
OIC Electrical
(Authorized Signatory)
Authorized on: 20 Jun, 2024 16:27 PM

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CLASSIC INSTRUMENTATION PVT. LTD.
C-45, Sector-65, Noida-201 307 (U.P.)
Ph.: 0120-4279394, Contact : 9717699751
Email : classiclab@gmail.com, Website : www.classictestinglab.com
TC-5099

DISCIPLINE: ELECTRONICS **ULR No.: TC509924200000379F**

GROUP: IT Equipment

SUMMARY OF TEST REPORT

TEST REPORT NO…SC24EPF05482_1…DATED…20/06/2024
(Number of pages in test report: page no. 1 to 109)

TEST FORMAT AS PER IS 13252 (Part 1): 2010 + A1: 2013+ A2:2015 / IEC 60950-1: 2005 + A1: 2009 +A2:2013

1. Name of Manufacturer: **Globtek (Suzhou) Co.,Ltd**
2. Product: **USB Power Delivery (PD) Source (Power Adaptors for IT Equipments)**
3. Model(s) : **Lead Model:** GTM96605-G2A1-R3A(PPS)
   Series Models: GTM96605-G2A1-T3, GTM96605-G2A1-T3A, GTM96605-G2A1-T3-RA, GTM96605-G2A1-T3(PPS), GTM96605-G2A1-R3A-RA, GTM96605-G2A1-R3A
4. Trademark: GlobTek, Inc.
5. Model differences provided (if applicable) : Yes
6. Model differences verified as per MEITY Guidelines for series formulation : Yes
7. Test Results : See below

PART A : GENERAL

SL. NO.	TEST REQUIREMENT	CLAUSE	VERDICT
1.	Components	1.5	P
2.	Power Interface	1.6	P
3.	Markings and Instructions	1.7	P

PART B : PROTECTION FROM HAZARDS

SL. NO.	TEST REQUIREMENT	CLAUSE	VERDICT
1.	Protection from electric shock and energy hazards	2.1	P
2.	SELV circuits	2.2	P
3.	TNV circuits	2.3	N/A
4.	Limited current circuits	2.4	P
5.	Limited power sources	2.5	P
6.	Provisions for earthing and bonding	2.6	P
7.	Over current for earth fault protection in primary circuits	2.7	P
8.	Safety interlocks	2.8	N/A
9.	Electrical insulation	2.9	P
10.	Clearances, creepage distances and distances through insulation	2.10	P

PART C: WIRING, CONNECTIONS AND PHYSICAL REQUIREMENTS

SL. NO.	TEST REQUIREMENT	CLAUSE	VERDICT
1	Wiring, connections and supply	3.0	P
2	Connection to a mains supply	3.2	P
3	Wiring terminals for connection of external conductors	3.3	N/A

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4	Disconnection from the mains supply	3.4	P
5	Interconnection of equipment	3.5	P
6.	Stability	4.1	N/A
7	Mechanical strength	4.2	P
8	Design and construction	4.3	P
9	Protection against hazardous moving parts	4.4	N/A
10	Thermal requirements	4.5	P
11	Openings in enclosures	4.6	N/A
12	Resistance to fire	4.7	P

PART D: ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS

SL. NO.	TEST REQUIREMENT	CLAUSE	VERDICT
1	Touch current and protective conductor current	5.1	P
2	Electric strength	5.2	P
3	Abnormal operating and fault conditions	5.3	P

PART E: CONNECTION TO TELECOM AND CABLED DISTRIBUTION SYSTEM

SL. NO.	TEST REQUIREMENT	CLAUSE	VERDICT
1	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment	6.1	N/A
2	Protection of equipment users from over voltages on telecommunication networks	6.2	N/A
3	Protection of the telecommunication wiring system from overheating	6.3	N/A
4	Connection to cable distribution systems - General	7.1	N/A
5	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment	7.2	N/A
6	Protection of equipment users from over voltages on the cable distribution system	7.3	N/A
7	Insulation between primary circuits and cable distribution systems	7.4	N/A

General Information:

1. The conformity certificates of critical components are verified to ensure complete testing of apparatus under test and details regarding harmonized IEC standards (where IEC standards are not available) are also provided in the list of critical component.
2. All testes has been performed on Lead Model: GTM96605-G2A1-R3A(PPS) only.

CONCLUSION:

Sample meets all relevant requirements of IS 13252 (Part 1): 2010 + A1: 2013+ A2:2015 / IEC 60950-1: 2005 + A1: 2009 +A2:2013

I, hereby, undertake that the verdict stated in the test reports for all the tests matches with the test results. The sample meets all relevant requirements of IS 13252 (Part 1): 2010 + A1: 2013+ A2:2015 / IEC 60950-1: 2005 + A1: 2009 +A2:2013. *If any deviation is found, suitable punitive action may be taken by BIS.*

.....

(Signature of Authorized person with Stamp)

CLASSIC INSTRUMENTATION PVT. LTD. Authorised Signatory

CLASSIC INSTRUMENTATION PVT. LTD.
C-45, Sector-65, Noida-201 307 (U.P.)
Ph.: 0120-4279394, Contact : 9717699751
Email : classiclab@gmail.com, Website : www.classictestinglab.com
TC-5099

Test Report No.:	SC24EPF05482_1	Discipline: ELECTRONICS		Page 1 of 109
ULR No.:	TC509924200000379F	GROUP: IT Equipment	Issue Date:	20/06/2024

Manufacturer:	**Globtek (Suzhou) Co.,Ltd** NO.76 JINLING EAST ROAD, SUZHOU INDISTRIAL PARK, CHINA, -, 0		
Test item:	**USB Power Delivery (PD) Source (Power Adaptors for IT Equipments)**		
Identification:	**Lead Model:** GTM96605-G2A1-R3A(PPS) **Series Models:** GTM96605-G2A1-T3, GTM96605-G2A1-T3A, GTM96605-G2A1-T3-RA, GTM96605-G2A1-T3(PPS), GTM96605-G2A1-R3A-RA, GTM96605-G2A1-R3A	*Serial No.:*	Nil
Receipt No.:	SC24EPF05482	*Date of Recipt:*	01/04/2024
Testing laboratory and its address:	**CLASSIC INSTRUMENTATION PVT.LTD.** **C-45,Sector-65,Noida-201307(U.P.)**		
Test specification:	**IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 /** **IEC 60950-1: 2005 + A1: 2009 + A2 : 2013**		
Test Result:	*The test item passed the test specification(s).*		

Other Aspects:

1. This report consists of 109 pages including one attachment.

This test report relates to the test sample submitted and list of documents attached.

Tested by:	**Approved by/Authorized Signatory:**	**Issued by:**
Kajal		A. K. Singh
Testing Engineer **(Kajal Jha)**	**Laboratory Head** **(Diksha Sharma)**	**Technical Manager** **(Abhishek kumar singh)**
Dated: 20/06/2024	**Dated: 20/06/2024**	**Dated: 20/06/2024**

CLASSIC INSTRUMENTATION PVT. LTD. Authorised Signatory

TEST REPORT

IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 /
IEC 60950-1: 2005 + A1: 2009 + A2: 2013
Information technology equipment – Safety –
Part 1: General requirements
"Power Adaptor for IT Equipment"

Report Reference No. ..... :	SC24EPF05482_1
Date of issue ..... :	20/06/2024
Total number of pages	105
Testing Laboratory ..... :	**CLASSIC INSTRUMENTATION PVT.LTD.**
Address ..... :	**C-45,Sector-65,Noida-201307(U.P.)**
Manufacturer's name ..... :	**Globtek (Suzhou) Co.,Ltd**
Address ..... :	NO.76 JINLING EAST ROAD, SUZHOU INDISTRIAL PARK, CHINA, -, 0
Test specification:	
Standard ..... :	**IS 13252 (Part 1): 2010 + A1: 2013+ A2:2015 / IEC 60950-1: 2005 + A1: 2009 +A2:2013**
Test procedure ..... :	Compliance Report
Non-standard test method..... :	N/A
Test Report Form No..... :	BIS_IT/PA_IS13252_V1.3
Test Report Form(s) Originator..... :	Bureau of Indian Standards
Master TRF ..... :	03/06/2016
Test item description ..... :	**USB Power Delivery (PD) Source (Power Adaptors for IT Equipments)**
Trade Mark..... :	GlobTek, Inc.
Model/Type reference..... :	**Lead Model:** GTM96605-G2A1-R3A(PPS) **Series Models:** GTM96605-G2A1-T3, GTM96605-G2A1-T3A, GTM96605-G2A1-T3-RA, GTM96605-G2A1-T3(PPS), GTM96605-G2A1-R3A-RA, GTM96605-G2A1-R3A
Ratings ..... :	**Input**: 100-240V~ , 50/60Hz, 1.5A **Output:** 5.0V ⎓ 4.6A, 9.0V ⎓ 4.4A, 15.0V ⎓ 3.6A, 20.0V ⎓ 3.0A,60.0W PPS(3.6-11.0V) ⎓ 3.6A(Max), PPS(11.1-16.0V) ⎓ 3.15A(Max), PPS(16.1-20.0V) ⎓ 2.7A(Max) Please refer Page no 7 to 9 for series model Ratings
Other Documents submitted..... :	Please refer to Table – List of Attachments at Page No. 10

Tested by:	**Approved by/Authorized Signatory:**	**Issued by:**
Kajal		
Testing Engineer **(Kajal Jha)**	**Laboratory Head** **(Diksha Sharma)**	**Technical Manager** **(Abhishek kumar singh)**
Dated: 20/06/2024	**Dated: 20/06/2024**	**Dated: 20/06/2024**

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Test Code	Description	Measurement/ testing	Total No. of tests	Total no. of applicable tests/ Req.	No. of tests/ Req. passed	Page No.
EL 2100	General Requirements	Components (Cl.1.5)	18	06	06	13-14
EL 2101	General Requirements	Power interface (Cl.1.6)	05	04	04	15-15
EL 2102	Marking Requirements	Marking & instructions(Cl.1.7)	39	19	19	16-17
EL 2103	Electrical safety	Protection from electric shock and energy hazards (Cl.2.1)	14	05	05	18-18
EL 2104	Electrical safety	SELV Circuits (Cl.2.2)	04	04	04	19-19
EL 2105	Electrical safety	TNV Circuits (Cl.2.3)	12	00	N/A	20-20
EL 2106	Electrical safety	Limited current circuits (Cl.2.4)	04	03	03	21-21
EL 2107	Electrical safety	Limited Power sources (Cl.2.5)	07	02	02	22-22
EL 2108	Electrical safety	Provisions for earthing and bonding (Cl.2.6)	19	02	02	23-24
EL 2109	Electrical safety	Overcurrent and earth fault protection in primary circuits (Cl.2.7)	07	04	04	25-25
EL 2110	Electrical safety	Safety Interlocks (Cl.2.8)	13	00	N/A	26-26
EL 2111	Electrical safety	Electrical Insulation (Cl.2.9)	05	05	05	27-27
EL 2112	Electrical safety	Clearances, Creepage distances and distances through insulation (Cl.2.10)	63	28	28	28-30
EL 2113	Wiring	Wiring, connections and supply (Cl.3)	11	07	07	31-31
EL 2114	Wiring	Connection to a main supply (Cl.3.2)	14	06	06	32-33
EL 2115	Wiring	Wiring terminals for connection of external conductors (Cl.3.3)	09	00	N/A	34-34
EL 2116	Wiring	Disconnection for the main supply (Cl.3.4)	12	05	05	35-35
EL 2117	Wiring	Interconnection of equipment (Cl.3.5)	05	03	03	36-36
EL 2118	Mechanical properties	Stability (Cl.4.1)	05	00	N/A	37-37
EL 2119	Mechanical properties	Mechanical strength (Cl.4.2)	13	06	06	38-38
EL 2120	Mechanical properties	Design and construction (Cl.4.3)	25	04	04	39-40
EL 2121	Mechanical properties	Protection against hazardous moving parts (Cl.4.4)	14	00	N/A	41-41
EL 2122	Thermal Properties	Thermal requirements (Cl.4.5)	06	05	05	42-42
EL 2123	Mechanical properties	Openings in Enclosures (Cl.4.6)	18	00	N/A	43-44
EL 2124	Fire Safety	Resistance to fire (Cl.4.7)	25	08	08	45-48
EL 2125	Insulating properties	Electrical requirements and simulated abnormal conditions(Cl.5),5.1	20	10	10	49-50
EL 2126	Insulating properties	Electric Strength (Cl.5.2)	03	03	03	51-51

EL 2127	Insulating properties	Abnormal operating and fault conditions (Cl.5.3)	11	07	07	52-52
EL 2128	Communicating connection	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment(Cl.6.1)	04	00	N/A	53-53
EL 2129	Communicating connection	Protection of equipment users from overvoltages on telecommunication networks (Cl.6.2)	06	00	N/A	54-54
EL 2130	Communicating connection	Protection of the telecommunication wiring system from overheating (Cl.6.3)	05	00	N/A	55-55
EL 2131	Connection to cable distribution systems	Connection to cable distribution systems(Cl.7)	08	00	N/A	56-56
EL 2132	Fire safety	Tests for resistance to heat and fire (Annex A)	20	00	N/A	57-58
EL 2133	Insulating properties	Motor tests under abnormal conditions (Annex B)	19	00	N/A	59-60
EL 2134	Electrical Safety	Transformers (Annex C)	03	03	03	61-61
EL 2135	Insulating properties	Measuring Instruments For Touch-Current Tests (Annex D)	03	02	02	62-62
EL 2136	Thermal Properties	Temperature Rise Of A Winding(Annex E)	01	00	N/A	63-63
EL 2137	Electrical safety	Measurement Of Clearances And Creepage Distances (Annex F)	01	01	01	64-64
EL 2138	Electrical safety	Alternative Method For Determining Minimum Clearances (Annex G)	17	00	N/A	65-65
EL 2139	Radiation Safety	Ionizing Radiation(Annex H)	01	00	N/A	66-66
EL 2140	Electrical Safety	Table of electrochemical potentials (Annex J)	01	00	N/A	67-67
EL 2141	General Requirements	Thermal controls (Annex K)	07	00	N/A	68-68
EL 2142	General Requirements	Normal load conditions for some types of electrical business equipment (Annex L)	08	02	02	69-69
EL 2143	Electrical Safety	Criteria for telephone ringing signals (Annex M)	13	00	N/A	70-70
EL 2144	Electrical safety	Impulse Test Generators(Annex N)	03	00	N/A	71-71
EL 2145	General Requirements	Normative References(Annex P)	01	01	01	72-72
EL 2146	General Requirements	Voltage dependent resistors (VDRs) (Annex Q)	03	00	N/A	73-73
EL 2147	General Requirements	Examples Of Requirements For Quality Control Programmes(Annex R)	03	00	N/A	74-74
EL 2148	General Requirements	Procedure For Impulse Testing (Annex S)	04	00	N/A	75-75
EL 2149	Protection against Ingress of water	Guidance On Protection Against Ingress Of Water (Annex T)	01	00	N/A	76-76
EL 2150	Wiring	Insulated Winding Wires For Use Without Interleaved Insulation (Annex U)	17	00	N/A	77-77

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EL 2151	Electrical Safety	Ac Power Distribution Systems (Annex V)	05	03	03	78-78
EL 2152	Electrical Safety	Summation Of Touch Currents (Annex W)	08	00	N/A	79-79
EL 2153	Electrical Safety	Maximum Heating Effect In Transformer Tests (Annex X)	03	03	03	80-80
EL 2154	Radiation safety	Ultraviolet light conditioning test (Annex Y)	05	00	N/A	81-81
EL 2155	Electrical Safety	Overvoltage Categories (Annex Z)	01	01	01	82-82
EL 2156	Mechanical properties	Mandrel Test (Annex AA)	01	00	N/A	83-83
EL 2157	Electrical Safety	Changes In The Second Edition(Annex BB)	--	--	--	--
EL 2158	Electrical Safety	Evaluation Of Integrated Circuit (IC) Current Limiters (Annex CC)	06	00	N/A	84-84
EL 2159	Mechanical properties	Requirements For The Mounting Means Of Rack-Mounted Equipment (Annex DD)	04	00	N/A	85-85
EL 2160	Electrical Safety	Household And Home/Office Document/Media Shredders (Annex EE)	06	00	N/A	86-86

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

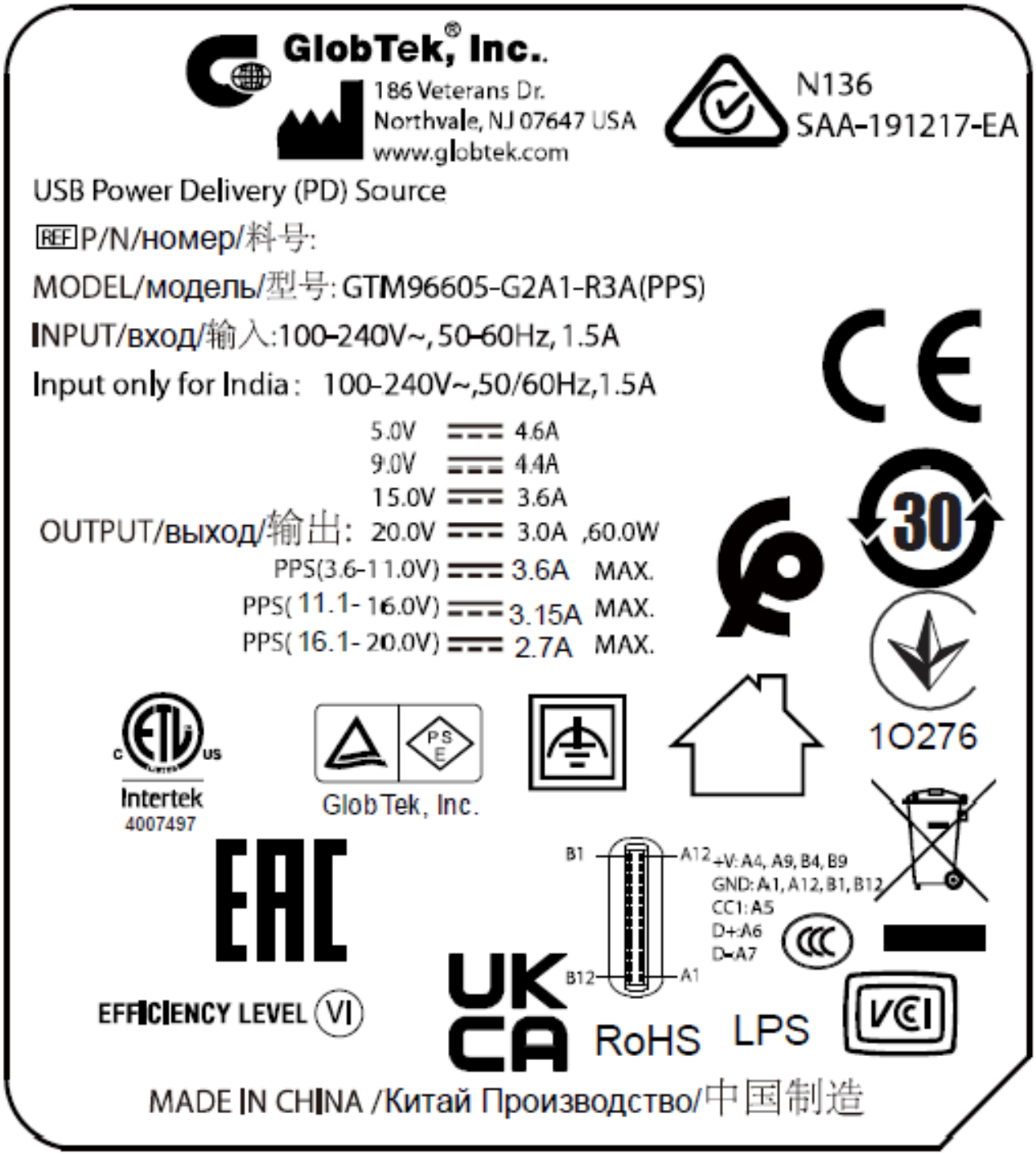
.....

(Approving Authority)

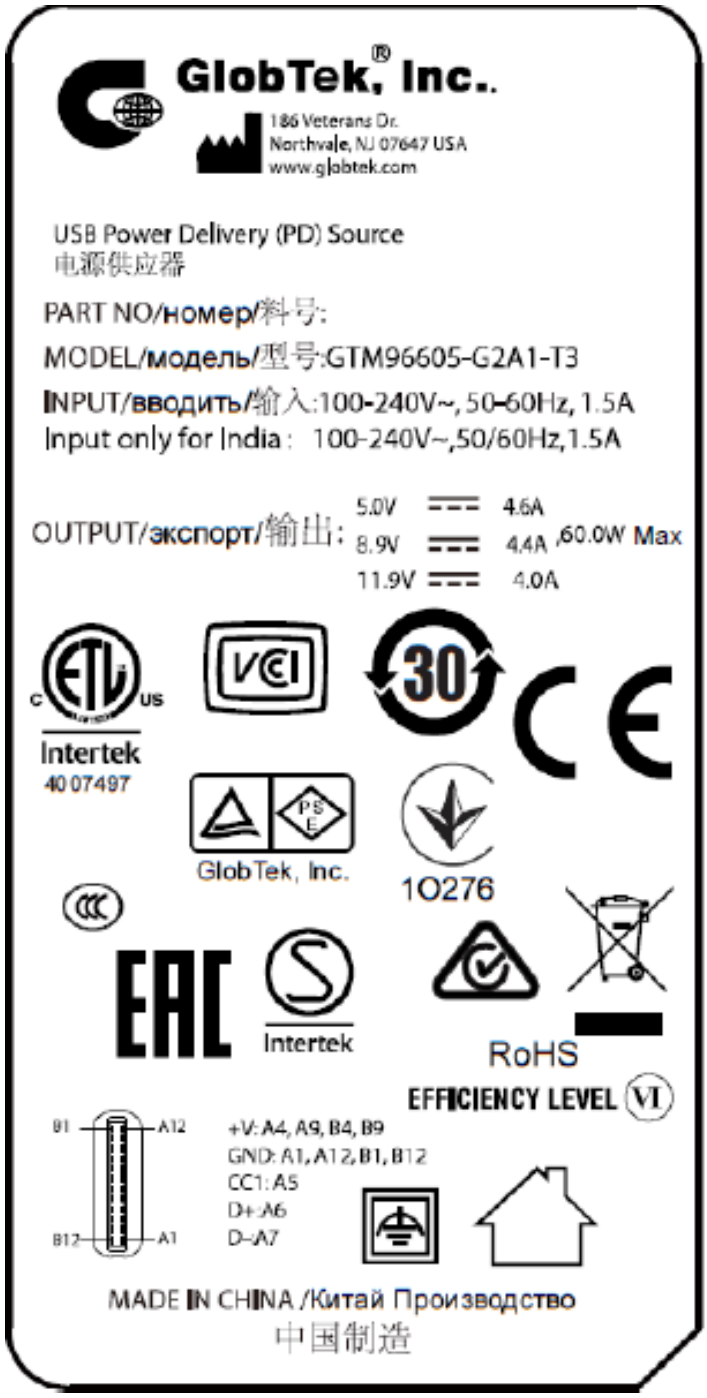
CLASSIC INSTRUMENTATION PVT. LTD. Authorised Signatory

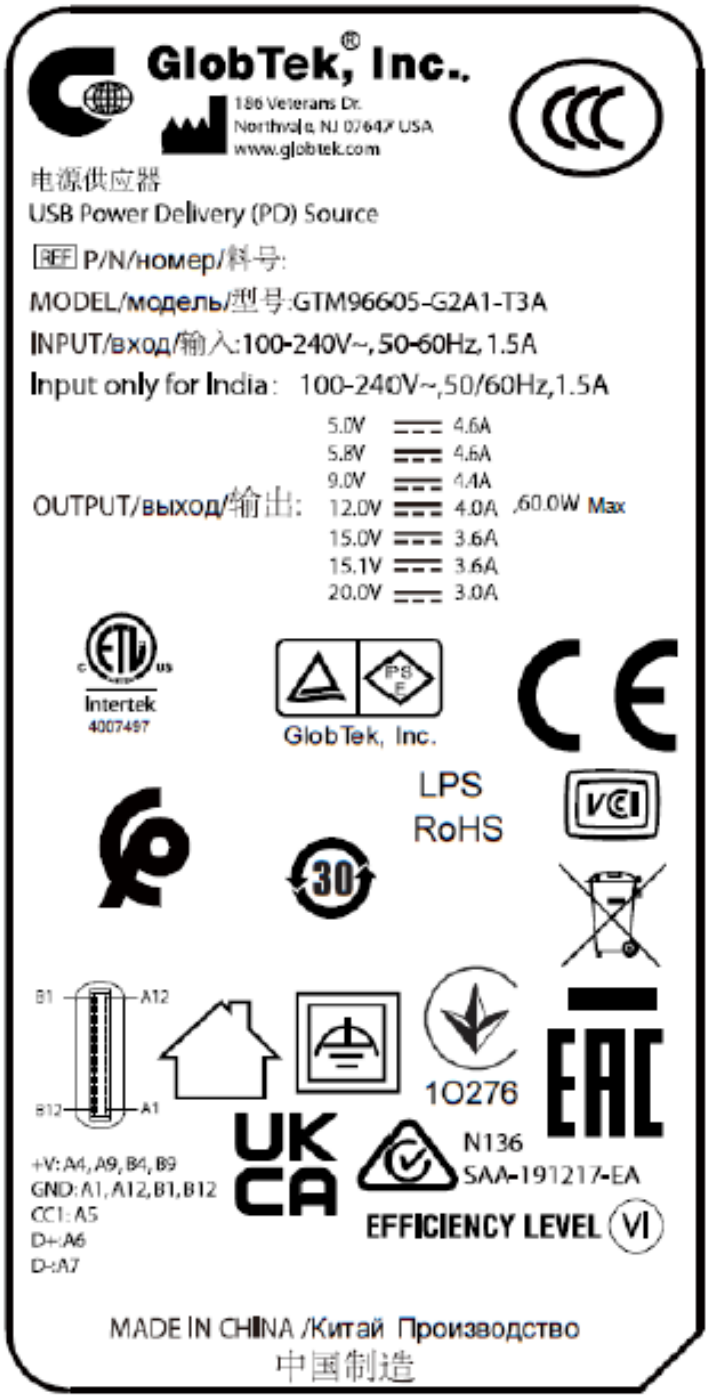
Copy of marking plate:

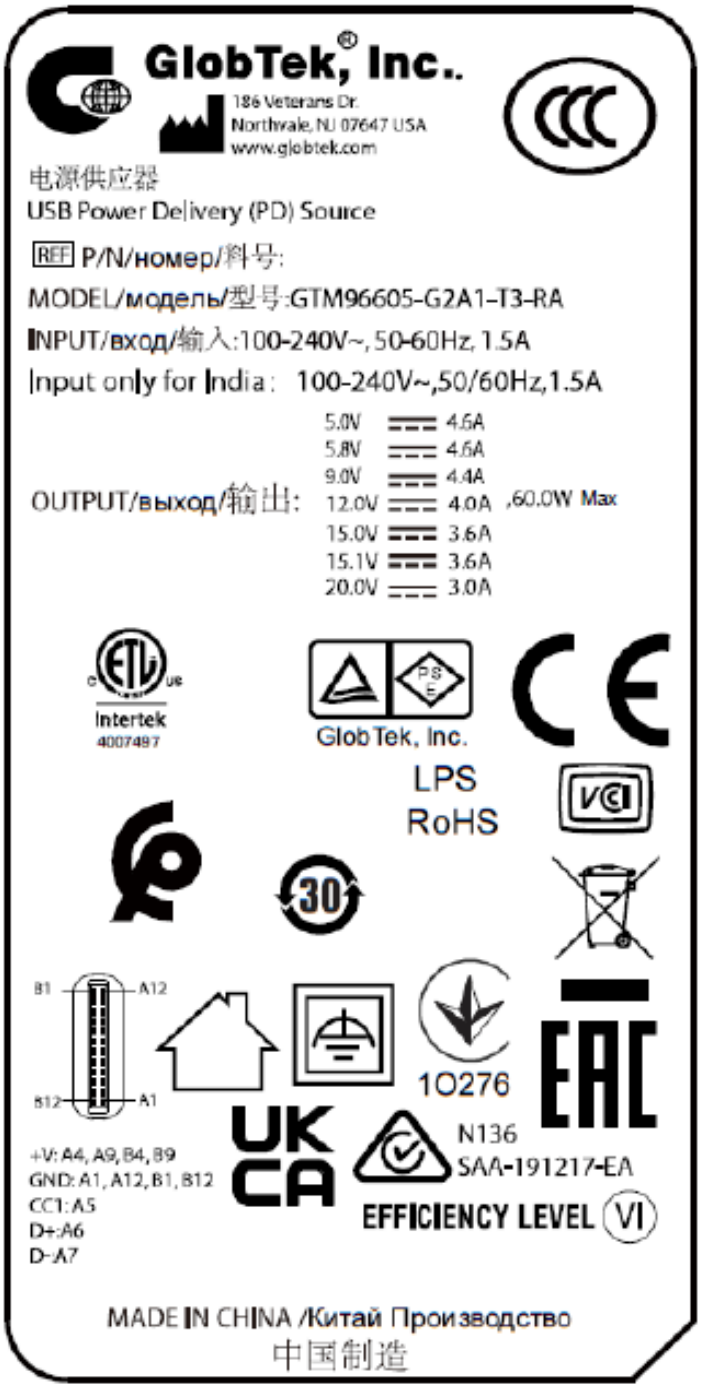
Lead Model:

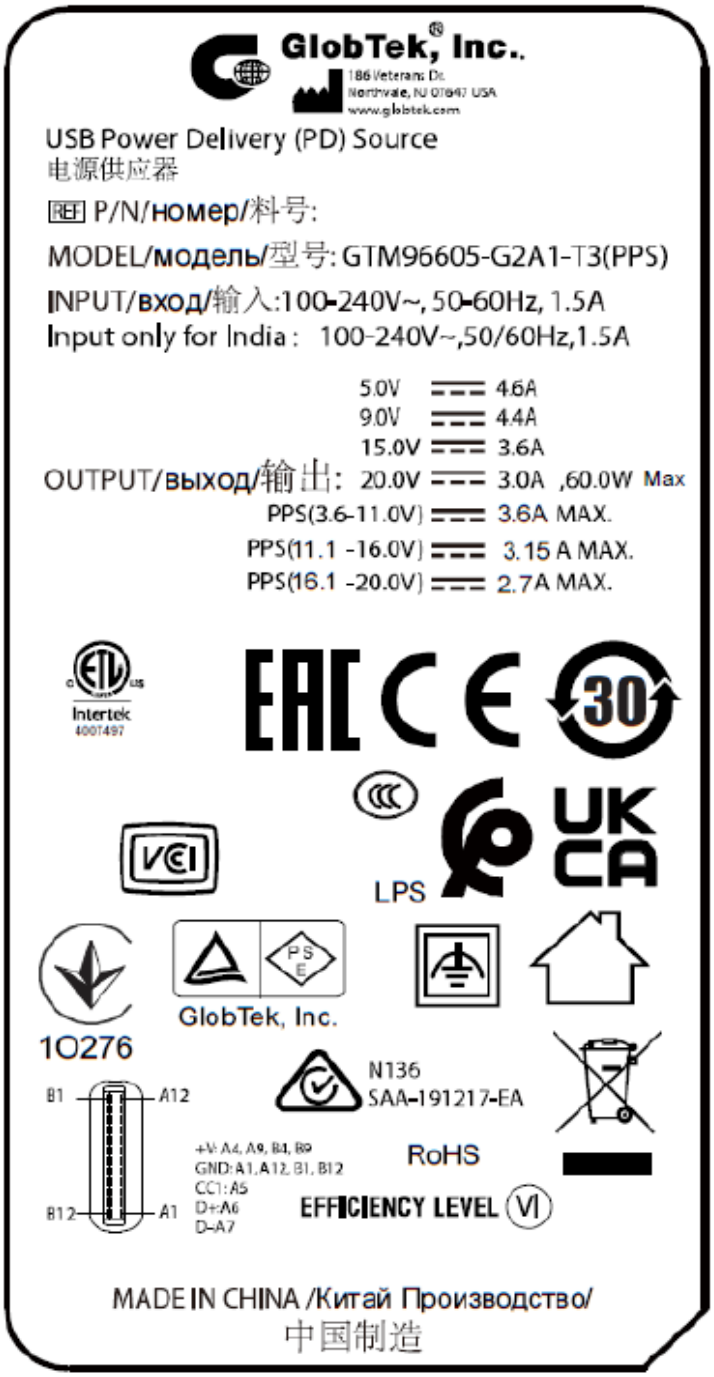


Marking of Series Models:






GlobTek, Inc.
186 Veterans Dr.
Northvale, NJ 07647 USA
www.globtek.com
电源供应器
USB Power Delivery (PD) Source
REF P/N/номер/料号:
MODEL/модель/型号:GTM96605-G2A1-T3-RA
INPUT/вход/输入:100-240V~, 50-60Hz, 1.5A
Input only for India : 100-240V~,50/60Hz,1.5A
OUTPUT/выход/输出:
5.0V 4.6A
5.8V 4.6A
9.0V 4.4A
12.0V 4.0A ,60.0W Max
15.0V 3.6A
15.1V 3.6A
20.0V 3.0A
Intertek
4007497
GlobTek, Inc.
LPS
RoHS
1O276
N136
SAA-191217-EA
+V: A4, A9, B4, B9
GND: A1, A12, B1, B12
CC1: A5
D+:A6
D-:A7
EFFICIENCY LEVEL VI
MADE IN CHINA /Китай Производство
中国制造


GlobTek, Inc.
186 Veterans Dr.
Northvale, NJ 07647 USA
www.globtek.com
USB Power Delivery (PD) Source
电源供应器
REF P/N/номер/料号:
MODEL/модель/型号: GTM96605-G2A1-T3(PPS)
INPUT/вход/输入:100-240V~, 50-60Hz, 1.5A
Input only for India : 100-240V~,50/60Hz,1.5A
OUTPUT/выход/输出:
5.0V 4.6A
9.0V 4.4A
15.0V 3.6A
20.0V 3.0A ,60.0W Max
PPS(3.6-11.0V) 3.6A MAX.
PPS(11.1 -16.0V) 3.15 A MAX.
PPS(16.1 -20.0V) 2.7A MAX.
Intertek
4007497
LPS
GlobTek, Inc.
1O276
N136
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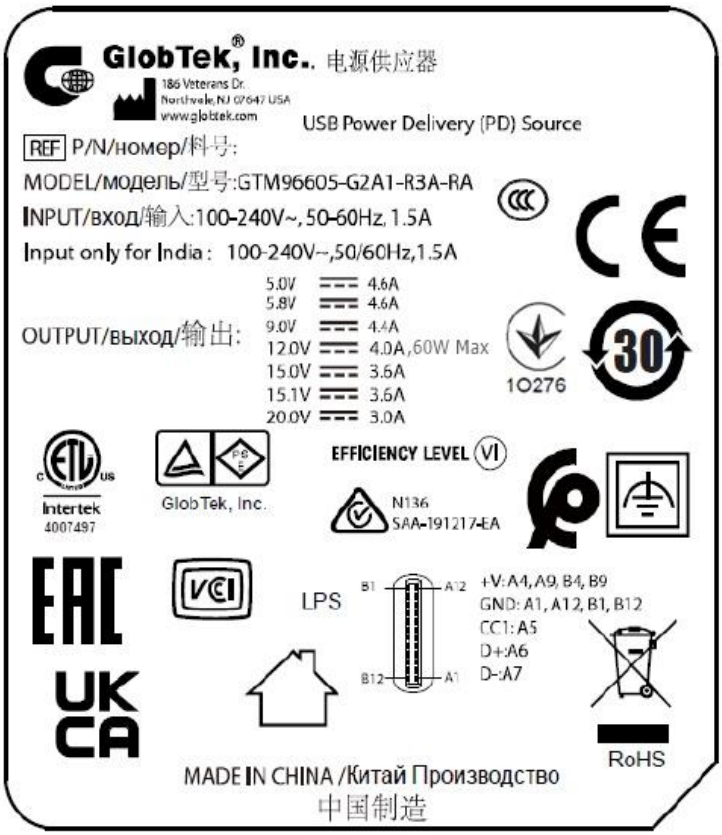
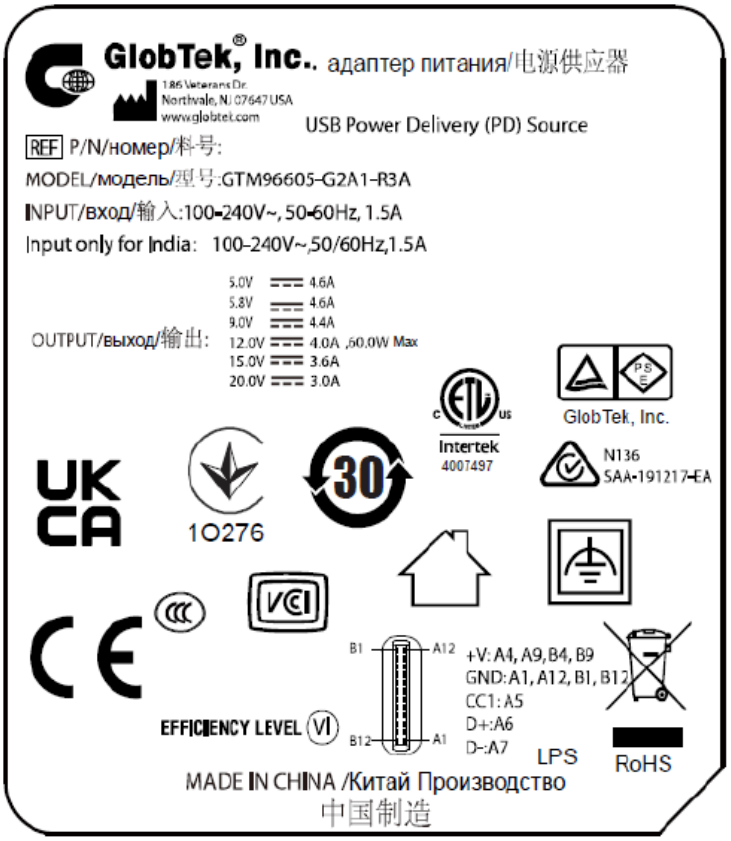
+V: A4, A9, B4, B9
GND: A1, A12, B1, B12
CC1: A5
D+:A6
D-:A7
RoHS
EFFICIENCY LEVEL VI
MADE IN CHINA /Китай Производство/
中国制造





Copy of Trademark:

GlobTek, Inc.

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Table – List of Attachments

Attachment No.	Attachment Description	No. of pages in Attachment
Attachment – 1	Photo Documents	01 (Page no. 109)

General remarks:

The test results presented in this report relate only to the object tested.

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

Possible test case verdicts:

- test case does not apply to the test object .....:	N/A (Not Applicable)
- test object does meet the requirement .....:	P (Pass)
- test object does not meet the requirement .....:	F (Fail)

Testing .....:

Date of receipt of test item.....:	01/04/2024
Date(s) of performance of tests.....:	01/04/2024 to 20/06/2024

Laboratory conditions .....:

Ambient Temperature .....:	(25±4)ºC
Ambient Humidity.....:	(55±10)%

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Test item particulars ..... :	**USB Power Delivery (PD) Source (Power Adaptors for IT Equipments)**
Equipment mobility ..... :	☒ movable ☐ hand-held ☒ transportable ☐ stationary ☐ for building-in ☐ direct plug-in
Connection to the mains ..... :	☒ pluggable equipment ☒ type A ☐ type B ☐ permanent connection ☒ detachable power supply cord ☐ non-detachable power supply cord ☐ not directly connected to the mains
Operating condition ..... :	☒ continuous ☐ rated operating / resting time:
Access location ..... :	☒ operator accessible ☐ restricted access location
Over voltage category (OVC) ..... :	☐ OVC I ☒ OVC II ☐ OVC III ☐ OVC IV ☐ other:
Mains supply tolerance (%) or absolute mains supply values .... :	Mains supply tolerance : -10%, +6%
Class of equipment ..... :	☐ Class I ☒ Class II ☐ Class III ☐ Not classified
Considered current rating of protective device as a part of the building installation (A) ..... :	16A (for India)
Pollution degree (PD) ..... :	☐ PD 1 ☒ PD 2 ☐ PD 3
IP protection class ..... :	IPX0
Altitude during operation (m) ..... :	Up to 2000
Altitude of test laboratory (m) ..... :	< 1000
Mass of equipment (kg) ..... :	0.244kg

Abbreviations that may be used throughout this test report:

PE/PB..... : protective earth/protective bonding	Pri ..... : primary
CB ..... : circuit breaker	sec ..... : secondary
(SW)PS..... : (switching) power supply	gnd..... : ground
HV..... : high voltage	I/O ..... : input/output
PCB ..... : printed circuit (wiring) board	ii ..... : installation instruction
TIW..... : triple insulated wire	PSU..... : Power Supply Unit

B/I..... : built-in application (compliance shall be guarantee in host equipment)

F/B/S/R : Functional/Basic/Supplementary/Reinforced Insulation

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General product information:

1) Application details / Description of the product:

The equipment is an **USB Power Delivery (PD) Source (Power Adaptors for IT Equipments)** intended for general office and home use with Information Technology equipment as per scope of this standard. The EUT has Class II construction with functional earthing.

Item: USB Power Delivery (PD) Source (Power Adaptors for IT Equipments)

Brand: GlobTek, Inc.

Model: **Lead Model:** GTM96605-G2A1-R3A(PPS)
Series Models: GTM96605-G2A1-T3, GTM96605-G2A1-T3A, GTM96605-G2A1-T3-RA, GTM96605-G2A1-T3(PPS), GTM96605-G2A1-R3A-RA, GTM96605-G2A1-R3A

Rating: **Input**: 100-240V~ 50/60Hz 1.5A
Output: 5.0V ⎓ 4.6A, 9.0V ⎓ 4.4A, 15.0V ⎓ 3.6A, 20.0V ⎓ 3.0A,60.0W, PPS(3.6-11.0V) ⎓ 3.6A(Max), PPS(11.1-16.0V) ⎓ 3.15A(Max), PPS(16.1-20.0V) ⎓ 2.7A(Max)

Weight: 0.244kg

Max. specified ambient temperature (°C) .... :	40°C
Laser classification .... :	N/A

2) Similarities between model: Same rated input voltage, Same class of construction, Same mains PCB design layout and transformer

Differences between the models: Model No, Output voltage and Output Current.

S.No.	Model	Output Current
1.	Lead Model: GTM96605-G2A1-R3A(PPS)	5.0V ⎓ 4.6A, 9.0V ⎓ 4.4A, 15.0V ⎓ 3.6A,20.0V ⎓ 3.0A,60.0W, PPS(3.6-11.0V) ⎓ 3.6A(Max),PPS(11.1-16.0V) ⎓ 3.15A(Max), PPS(16.1-20.0V) ⎓ 2.7A(Max)
2.	GTM96605-G2A1-T3	5.0V ⎓ 4.6A, 8.9V ⎓ 4.4A, 11.9V ⎓ 4.0A, 60.0W Max.
3.	GTM96605-G2A1-T3A	5.0V ⎓ 4.6A, 5.8V ⎓ 4.6A, 9.0V ⎓ 4.4A,12.0V ⎓ 4.0A, 15.0V ⎓ 3.6A, 15.1V ⎓ 3.6A, 20.0V ⎓ 3.0A, 60.0W Max.
4.	GTM96605-G2A1-T3-RA	5.0V ⎓ 4.6A, 5.8V ⎓ 4.6A, 9.0V ⎓ 4.4A,12.0V ⎓ 4.0A, 15.0V ⎓ 3.6A, 15.1V ⎓ 3.6A, 20.0V ⎓ 3.0A, 60.0W Max.
5.	GTM96605-G2A1-T3(PPS)	5.0V ⎓ 4.6A, 9.0V ⎓ 4.4A, 15.0V ⎓ 3.6A,20.0V ⎓ 3.0A, 60.0W Max., PPS(3.6-11.0V) ⎓ 3.6A(Max),PPS(11.1-16.0V) ⎓ 3.15A(Max), PPS(16.1-20.0V) ⎓ 2.7A(Max)
6.	GTM96605-G2A1-R3A-RA	5.0V ⎓ 4.6A, 5.8V ⎓ 4.6A, 9.0V ⎓ 4.4A,12.0V ⎓ 4.0A, 15.0V ⎓ 3.6A, 15.1V ⎓ 3.6A, 20.0V ⎓ 3.0A, 60.0W Max
7.	GTM96605-G2A1-R3A	5.0V ⎓ 4.6A, 5.8V ⎓ 4.6A, 9.0V ⎓ 4.4A,12.0V ⎓ 4.0A, 15.0V ⎓ 3.6A, 20.0V ⎓ 3.0A, 60.0W Max

Model No. tested with-in the family series: **Model No. tested with-in the family series: GTM96605-G2A1-R3A(PPS)** (Lead Model) (Worst Case).

3)Options:

The equipment was tested without any optional accessory installed. Hence, this report does not cover parameters that are influenced by the installation of optional accessory that might affect safety in the meaning of this standard.

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Tests relating to General Requirements

EL 2100 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
1.5	Components*	EL 2100-00	Verification of approvals with due correlation between the components used and the approval certificates submitted (See table 1.5.1)	P
1.5.1	General:	EL 2100-01	See below	P
	Components shall be complying with IEC 60950-1 or relevant component standard.		Verification of approvals with due correlation between the components used and the approval certificates submitted (See the table 1.5.1)	P
	Components and subassemblies approved for IEC 62368-1 can be considered as complying with this standard		No such component used	N/A
1.5.2	Evaluation and testing of components	EL 2100-02	Components certified with IEC or their harmonized standards are used within their ratings (See table 1.5.1)	P
1.5.3	Thermal controls	EL 2100-03	No thermal control	N/A
1.5.4	Transformers	EL 2100-04	Transformer Tested with in appliance (See Annex C and table C.2)	P
1.5.5	Interconnecting cables*	EL 2100-05	Interconnecting cable used within the EUT	P
1.5.6	Capacitors bridging insulation *	EL 2100-06	Capacitors used in accordance with their rating and complied with subclasses of IEC 60384-14 (see table 1.5.1)	P
1.5.7	Resistors bridging insulation	EL 2100-07	No such component used	N/A
1.5.7.1	Resistors bridging functional, basic or supplementary insulation*	EL 2100-08	As above	N/A
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	EL 2100-09	As above	N/A
1.5.7.3	Resistors bridging double insulation or reinforced insulation between the a.c. mains supply and circuits connected to an antenna or coaxial cable	EL 2100-10	No such circuits	N/A
1.5.8	Components in equipment for IT power distribution systems*	EL 2100-11	TN power distribution system used	N/A
1.5.9	Surge suppressors	EL 2100-12	See below	P
1.5.9.1	General*	EL 2100-13	Safety certified varistor (MOV1) used (See table 1.5.1)	P
1.5.9.2	Protection of VDRs*	EL 2100-14	Fuse (F1,F2) used for protection of varistor (MOV1)	P
1.5.9.3	Bridging of functional insulation by a VDR*	EL 2100-15	varistor (MOV1) bridges functional insulation	p
1.5.9.4	Bridging of basic insulation by a VDR*	EL 2100-16	No such construction	N/A

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Tests relating to General Requirements

EL 2100 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR*	EL 2100-17	No such construction	N/A

*- Total number of Requirements to be observed / inspected = 10
Total No of applicable Requirement = 05
No of Requirements for which the sample passed= 05

Total number of tests to be conducted = 08
Total No of applicable Tests = 05
No. of tests for which the sample passed= 05

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

……

(Approving Authority)

Report No. SC24EPF05482_1	IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 /	Page 15 of 109
Dated: 20/06/2024	IEC 60950-1: 2005 + A1:2009 + A2 : 2013	ULR No.: TC509924200000379F

Tests relating to Electrical Safety **EL 2101 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
1.6	Power interface*	EL 2101-00	See below	P
1.6.1	AC power distribution systems*	EL 2101-01	TN-S power distribution system	P
1.6.2	Input current	EL 2101-02	See table 1.6.2	P
1.6.3	Voltage limit of hand-held equipment*	EL 2101-03	Not a hand-held equipment	N/A
1.6.4	Neutral conductor *	EL 2101-04	The neutral conductor is insulated from the body throughout the equipment	P

*- Total number of Requirements to be observed / inspected = 04
Total No of applicable Requirement = 03
No of Requirements for which the sample passed= 03

Total number of tests to be conducted = 01
Total No of applicable Tests = 01
No. of tests for which the sample passed= 01

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

.....
(Approving Authority)

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Tests relating to Marking Requirements **EL 2102 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
1.7	Marking and instructions*	EL 2102-00	Satisfactory	P
1.7.1	Power rating and identification markings		See below	P
1.7.1.1	Power rating marking*	EL 2102-01	See copy of marking plate	P
	Rated voltage(s) or voltage ranges(s) (V)*	EL 2102-02	100-240V~	P
	Multiple mains supply connections*	EL 2102-03	No such type of supply connection	N/A
	Symbol for nature of supply, for d.c. only*	EL 2102-04	AC supplied	N/A
	Rated frequency or rated frequency range (Hz) *	EL 2102-05	50/60Hz	P
	Rated current (mA or A)*	EL 2102-06	1.5A	P
1.7.1.2	Identification markings*	EL 2102-07	See below	P
	Manufacturer's name or trade-mark or identification mark *	EL 2102-08	GlobTek, Inc.	P
	Model identification or type reference *	EL 2102-09	**GTM96605-G2A1-R3A(PPS)**	P
	Symbol for Class II equipment only*	EL 2102-10	Class II with functional earthing symbol marked on the EUT marking	P
	Other markings and symbols*	EL 2102-11	Other Markings or symbol do not give rise to misunderstanding	P
1.7.1.3	Use of graphical symbols*	EL 2102-12	Graphical symbols used on marking plate	P
1.7.2	Safety instructions and marking*	EL 2102-13	See below	P
1.7.2.1	General	EL 2102-14	In-compliance	P
1.7.2.2	Disconnect devices*	EL 2102-15	Appliance Inlet is considered as disconnet device	P
1.7.2.3	Overcurrent protective devices*	EL 2102-16	Pluggable equipment type A	N/A
1.7.2.4	IT power distribution systems*	EL 2102-17	No such system available	N/A
1.7.2.5	Operator access with a tool*	EL 2102-18	No such construction used	N/A
1.7.2.6	Ozone*	EL 2102-19	Device does not produce ozone	N/A
1.7.3	Short duty cycles*	EL 2102-20	The EUT is continuous operating type	N/A
1.7.4	Supply voltage adjustment*	EL 2102-21	No voltage adjustment	N/A
1.7.5	Power outlets on the equipment*	EL 2102-22	No such power outlet found within EUT	N/A
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference) Fuse(s) shall clearly and adequately marked with fuse number and rating*.	EL 2102-23	Certified fuse (F1,F2) used (T3.15A, 250VAC)	P
1.7.7	Wiring terminals	EL 2102-24	See below	N/A
1.7.7.1	Protective earthing and bonding terminals*	EL 2102-25	Class II equipment hence no earthing terminal available	N/A
1.7.7.2	Terminals for a.c. mains supply conductors*	EL 2102-26	Not a permanently connected equipment	N/A

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1.7.7.3	Terminals for d.c. mains supply conductors*	EL 2102-27	See above Cl. 1.7.7.2	N/A
1.7.8	Controls and indicators	EL 2102-28	See below	P
1.7.8.1	Identification, location and marking *:	EL 2102-29	No such control or indicator used to affect safety	N/A
1.7.8.2	Colours*	EL 2102-30	Colour is used for functional indication only	P
1.7.8.3	Symbols according to IEC 60417*:	EL 2102-31	No such symbol used according to IEC 60417	N/A
1.7.8.4	Markings using figures* :	EL 2102-32	No such construction used	N/A
1.7.9	Isolation of multiple power sources*	EL 2102-33	No multiple power sources	N/A
1.7.10	Thermostats and other regulating devices*	EL 2102-34	No such device within the EUT	N/A
1.7.11	Durability	EL 2102-35	Marking is durable and legible after the test	P
1.7.12	Removable parts*	EL 2102-36	No such removable parts	N/A
1.7.13	Replaceable batteries*	EL 2102-37	No such replaceable battery used	N/A
	Language(s)		See above Cl. 1.7.13	N/A
1.7.14	Equipment for restricted access locations*	EL 2102-38	Equipment not intended to be installed in restricted access locations	N/A

*- Total number of Requirements to be observed / inspected = 35
Total No of applicable Requirement = 15
No of Requirements for which the sample passed=15

Total number of tests to be conducted = 04
Total No of applicable Tests = 04
No. of tests for which the sample passed= 04

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

.....
(Approving Authority)

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Tests relating to Electrical Safety **EL 2103 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.1	Protection from electric shock and energy hazards*	EL 2103-00	See below	P
2.1.1	Protection in operator access areas*	EL 2103-01	In-compliance	P
2.1.1.1	Access to energized parts	EL 2103-02	Adequate protection against contact in opeartor access area	P
	Test by inspection :		No hazardous bare parts in operator access area	P
	Test with test finger (Figure 2A)		No access with test finger to any parts at hazardous voltage in access area	P
	Test with test pin (Figure 2B):		The test pin does not touch bare hazardous parts in operator access area	P
	Test with test probe (Figure 2C)		No TNV circuit within the EUT	N/A
2.1.1.2	Battery compartments *	EL 2103-03	No TNV circuit within the EUT	N/A
2.1.1.3	Access to ELV wiring	EL 2103-04	No access to ELV wiring	N/A
	Working voltage (Vpeak or Vrms); minimum distance through insulation (mm)		See above cl. No. 2.1.1.3	N/A
2.1.1.4	Access to hazardous voltage circuit wiring	EL 2103-05	No accessible hazardous voltage wiring	N/A
2.1.1.5	Energy hazards :	EL 2103-06	Satisfactory (See table 2.1.1.5)	P
2.1.1.6	Manual controls	EL 2103-07	No manual controls	N/A
2.1.1.7	Discharge of capacitors in equipment		See below	P
	Measured voltage (V); time-constant (s):	EL 2103-08	Satisfactory (See table 2.1.1.7)	P
2.1.1.8	Energy hazards – d.c. mains supply		Not connected to DC mains supply	N/A
	a) Capacitor connected to the d.c. mains supply :	EL 2103-09	Refer Cl. 2.1.1.8	N/A
	b) Internal battery connected to the d.c. mains supply :	EL 2103-10	Refer Cl. 2.1.1.8	N/A
2.1.1.9	Audio amplifiers to be tested according to IEC 60065, cl. 9.1.1.:	EL 2103-11	No such audio amplifier used	N/A
2.1.2	Protection in service access areas	EL 2103-12	No serviceable part inside the equipment	N/A
2.1.3	Protection in restricted access locations	EL 2103-13	Not intended to be installed in restricted access location	N/A

*- Total number of Requirements to be observed / inspected = 03

Total No of applicable Requirement = 02

No. of Requirements for which the sample passed=02

Total number of tests to be conducted = 11

Total No of applicable Tests = 03

No. of tests for which the sample passed=03

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

.....

(Approving Authority)

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Tests relating to Electrical Safety **EL 2104 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.2	SELV circuits*	EL 2104-00	Satisfactory	P
2.2.2	Voltages under normal conditions	EL 2104-01	Between any SELV circuit 42.4V peak or 60V DC are not exceeded (See table 2.2.2)	P
2.2.3	Voltages under fault conditions	EL 2104-02	Between any SELV circuit; 71V peak not exceeded for multiple pulse and 120 V peak not exceeded for single pulse (See table 2.2.3)	P
2.2.4	Connection of SELV circuits to other circuits* :	EL 2104-03	SELV circuits are connected to SELV circuit only	P

*- Total number of Requirements to be observed / inspected = 02
Total No of applicable Requirement = 02
No of Requirements for which the sample passed=02

Total number of tests to be conducted = 02
Total No of applicable Tests = 02
No. of tests for which the sample passed=02

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

.....
(Approving Authority)

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Tests relating to Electrical Safety **EL 2105 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.3	TNV circuits*	EL 2105-00	No TNV circuits within the equipment	N/A
2.3.1	Type of TNV circuits: TNV-1 / TNV-2 / TNV-3	EL 2105-01	Refer Cl.2.3	N/A
	a) Limits of TNV-1:	EL 2105-02	Refer Cl.2.3	N/A
	b) Limits of TNV-2 or TNV-3: Continuous voltages, combination of AC and DC values, are such that : $\frac{U_{ac}}{71} + \frac{U_{dc}}{120} \leq 1$	EL 2105-03	Refer Cl.2.3	N/A
2.3.2	Separation from other circuits and from accessible parts*	EL 2105-04	Refer Cl.2.3	N/A
2.3.2.1	General Requirements	EL 2105-05	Refer Cl.2.3	N/A
2.3.2.2	Protection by basic insulation	EL 2105-06	Refer Cl.2.3	N/A
2.3.2.3	Protection by earthing	EL 2105-07	Refer Cl.2.3	N/A
2.3.2.4	Protection by other constructions :	EL 2105-08	Refer Cl.2.3	N/A
2.3.3	Separation from hazardous voltages	EL 2105-09	Refer Cl.2.3	N/A
2.3.4	Connection of TNV circuits to other circuits	EL 2105-10	Refer Cl.2.3	N/A
2.3.5	Test for operating voltages generated externally	EL 2105-11	Refer Cl.2.3	N/A

*- Total number of Requirements to be observed / inspected = 02
Total No of applicable Requirement = 00
No of Requirements for which the sample passed=N/A

Total number of tests to be conducted = 10
Total No of applicable Tests = 00
No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be ~~passing/failing~~ in the requirement tested.
(These tests/requirements are not applicable)

.....
(Approving Authority)

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Report No. SC24EPF05482_1	IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 /	Page 21 of 109
Dated: 20/06/2024	IEC 60950-1: 2005 + A1:2009 + A2 : 2013	ULR No.: TC509924200000379F

Tests relating to Electrical Safety **EL 2106 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.4	Limited current circuits *	EL 2106-00	See below	P
2.4.1	General requirements *	EL 2106-01	See table 2.4.2	P
2.4.2	Limit values	EL 2106-02	Measured value not exceeding 0.7mA peak	P
2.4.3	Connection of limited current circuits to other circuits*	EL 2106-03	SELV to SELV connection only	P

*- Total number of Requirements to be observed / inspected = 03
Total No of applicable Requirement = 03
No of Requirements for which the sample passed=03

Total number of tests to be conducted = 01
Total No of applicable Tests = 01
No. of tests for which the sample passed= 01

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

……
(Approving Authority)

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Tests relating to Electrical Safety **EL 2107 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.5	Limited power sources *	EL 2107-00	See below	P
	a) Inherently limited output	EL 2107-01	No such inherently limited output	N/A
	b) Impedance limited output	EL 2107-02	No such Impedance limited output	N/A
	c) Regulating network limited output under normal operating and single fault condition Use of integrated circuit (IC) current limiters	EL 2107-03	Satisfactory (Refer table 2.5)	P
	d) Overcurrent protective device limited output	EL 2107-04	No such over current protective device	N/A
	Max. output voltage (V), Max. output current (A), Max. apparent power (VA)	EL 2107-05	See above 2.5 d)	N/A
	Current rating of overcurrent protective device (A)	EL 2107-06	See above 2.5 d)	N/A

*- Total number of Requirements to be observed / inspected = 01
Total No of applicable Requirement = 01
No of Requirements for which the sample passed=01

Total number of tests to be conducted = 06
Total No of applicable Tests = 01
No. of tests for which the sample passed=01

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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Tests relating to Electrical Safety **EL 2108 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.6	Provisions for earthing and bonding*	EL 2108-00	See below	P
2.6.1	Protective earthing	EL 2108-01	Protective earthig not used	N/A
2.6.2	Functional earthing : The Functional earthing either separated from hazardous voltages by double- or reinforced insulation or safely connected to Protective Bonding Conductor.*	EL 2108-02	The Functional earthing is separated from hazardous voltages by double or reinforced insulation	P
	Use of symbol for functional earthing:*	EL 2108-03	Symbol used	P
2.6.3	Protective earthing and protective bonding conductors*	EL 2108-04	Functional Earthing used	N/A
2.6.3.2	Size of protective earthing conductors	EL 2108-05	See above Clause No. 2.6.3	N/A
	Rated current (A), cross-sectional area (mm2), AWG		See above Clause No. 2.6.3	N/A
2.6.3.3	Size of protective bonding conductors	EL 2108-06	See above Clause No. 2.6.3	N/A
	Rated current (A), cross-sectional area (mm2), AWG		See above Clause No. 2.6.3	N/A
2.6.3.4	Resistance of earthing conductors and their terminations; resistance (Ω), voltage drop (V), test current (A), duration (min):	EL 2108-07	See above Clause No. 2.6.3	N/A
2.6.3.5	Colour of insulation*:	EL 2108-08	See above Clause No. 2.6.3	N/A
2.6.4	Terminals		See above Clause No. 2.6.3	N/A
2.6.4.2	Protective earthing and bonding terminals : Rated current(A), Type, Nominal thread diameter (mm)	EL 2108-09	See above Clause No. 2.6.3	N/A
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors*	EL 2108-10	See above Clause No. 2.6.3	N/A
2.6.5	Integrity of protective earthing*		See above Clause No. 2.6.3	N/A
2.6.5.1	Interconnection of equipment*	EL 2108-11	No such equipment	N/A
2.6.5.2	Components in protective earthing conductors and protective bonding conductors*	EL 2108-12	See above Clause No. 2.6.5.1	N/A
2.6.5.3	Disconnection of protective earth*	EL 2108-13	Functional Earthing is used	N/A
2.6.5.4	Parts that can be removed by an operator*	EL 2108-14	No such construction used	N/A
2.6.5.5	Parts removed during servicing*	EL 2108-15	See above Cl. 2.6.5.4	N/A
2.6.5.6	Corrosion resistance*	EL 2108-16	See above Cl. 2.6.5.4	N/A
2.6.5.7	Screws for protective bonding*	EL 2108-17	No such screws used	N/A
2.6.5.8	Reliance on telecommunication network or cable distribution system*	EL 2108-18	No TNV circuit	N/A

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*- Total number of Requirements to be observed / inspected = 14

Total No of applicable Requirement = 03

No of Requirements for which the sample passed= 03

Total number of tests to be conducted = 05

Total No of applicable Tests = 00

No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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(Approving Authority)

Tests relating to Electrical Safety **EL 2109 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.7	Overcurrent and earth fault protection in primary circuits*	EL 2109-00	See below	P
2.7.1	Basic requirements: Protection in primary circuits against overcurrents, short-circuits and earth faults shall be provided, either as an integral part of the equipment or as part of building installation.	EL 2109-01	The equipment relies on fuse (F1,F2) Build-in fuses provided as an over current protection device	P
	If pluggable equipment Type B or permanently connected equipment relies on protective device external to the equipment for protection, the equipment installation Instructions shall so state and shall also specify the requirements for short-circuit protection or overcurrent protection or, where necessary, for both.		Pluggable equipment Type A	N/A
2.7.2	Faults not simulated in 5.3.7* need not be fitted as an integral part of the equipment	EL 2109-02	Protection from faults not covered in Cl. 5.3 is provided by installation	N/A
2.7.3	Short-circuit backup protection	EL 2109-03	Certified Fuse (F1 & F2) is used for this purpose	P
2.7.4	Number and location of protective devices :	EL 2109-04	Over current protection by a built in fuse (F1,F2)	P
2.7.5	Protection by several devices*	EL 2109-05	Complies	P
2.7.6	Warning to service personnel* :	EL 2109-06	No such warning required	N/A

*- Total number of Requirements to be observed / inspected = 04
Total No of applicable Requirement = 02
No of Requirements for which the sample passed= 02

Total number of tests to be conducted = 03
Total No of applicable Tests = 03
No. of tests for which the sample passed=03

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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Tests relating to Electrical Safety **EL 2110 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.8	Safety Interlocks*	EL 2110-00	No such safety interlock used	N/A
2.8.1	General principles*	EL 2110-01	See above Cl. 2.8	N/A
2.8.2	Protection requirements	EL 2110-02	See above Cl. 2.8	N/A
2.8.3	Inadvertent reactivation	EL 2110-03	See above Cl. 2.8	N/A
2.8.4	Fail-safe operation	EL 2110-04	See above Cl. 2.8	N/A
2.8.5	Moving parts	EL 2110-05	See above Cl. 2.8	N/A
2.8.6	Overriding*	EL 2110-06	See above Cl. 2.8	N/A
2.8.7	Switches, relays and their related circuits	EL 2110-07	See above Cl. 2.8	N/A
2.8.7.1	Separation distances for contact gaps and their related circuits`	EL 2110-08	See above Cl. 2.8	N/A
2.8.7.2	Overload test	EL 2110-09	See above Cl. 2.8	N/A
2.8.7.3	Endurance test	EL 2110-10	See above Cl. 2.8	N/A
2.8.7.4	Electric strength test	EL 2110-11	See above Cl. 2.8	N/A
2.8.8	Mechanical actuators	EL 2110-12	See above Cl. 2.8	N/A

*- Total number of Requirements to be observed / inspected = 03
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 10
Total No of applicable Tests = 00
No. of tests for which the sample passed=N/A

Certificate: It is certified that the above tests were performed and found to be ~~passing/Failing~~ in the requirement tested.
(These tests/requirements are not applicable)

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Dated: 20/06/2024	IEC 60950-1: 2005 + A1:2009 + A2 : 2013	ULR No.: TC509924200000379F

Tests relating to Electrical Safety **EL 2111 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.9	Electrical insulation*	EL 2111-00	Satisfactory	P
2.9.1	Properties of insulating materials*	EL 2111-01	Natural rubber, Hygroscopic materials are not used as insulation	P
2.9.2	Humidity conditioning	EL 2111-02	Satisfactory (Components or subassembly not energized)	P
	Relative Humidity : 93 ±3 %, Temperature: t at 40 ± 2°C Duration : 120 hours		93 % 40 °C 120 hours	P
2.9.3	Grade of insulation*	EL 2111-03	Insulation considered is to be functional and reinforced/double insulation	P
2.9.4	Separation from hazardous voltages*	EL 2111-04	Separation provided through double/reinforced insulation	P
	Method(s) used		Method 1 used	P

*- Total number of Requirements to be observed / inspected = 04
Total No of applicable Requirement = 04
No of Requirements for which the sample passed= 04

Total number of tests to be conducted = 01
Total No of applicable Tests = 01
No. of tests for which the sample passed= 01

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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Tests relating to Electrical Safety **EL 2112 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.10	Clearances, creepage distances and distances through Insulation*	EL 2112-00	See below	P
2.10.1.1	Frequency *	EL 2112-01	50/60Hz	P
2.10.1.2	Pollution degrees*	EL 2112-02	Pollution degree 2	P
2.10.1.3	Reduced values for functional insulation	EL 2112-03	Functional insulation complies with 5.3.4 (c)	P
2.10.1.4	Intervening unconnected conductive parts	EL 2112-04	No such construction used	N/A
2.10.1.5	Insulation with varying dimensions	EL 2112-05	No such construction used	N/A
2.10.1.6	Special separation requirements	EL 2112-06	Special Separation is not required	N/A
2.10.1.7	Insulation in circuits generating starting pulses	EL 2112-07	No such circuit	N/A
2.10.2	Determination of working voltage	EL 2112-08	Refer table 2.10.2	P
2.10.2.2	RMS working voltage	EL 2112-09	See above cl. No. 2.10.2	P
2.10.2.3	Peak working voltage	EL 2112-10	See above cl. No. 2.10.2	P
2.10.3	Clearances	EL 2112-11	See below	P
2.10.3.1	General	EL 2112-12	Satisfactory	P
2.10.3.2	Mains transient voltages*		See below	P
	a) AC mains supply * :	EL 2112-13	Overvoltage category II, mains transient voltage 2500Vpeak	P
	b) Earthed d.c. mains supplies* :	EL 2112-14	Not connected to dc mains	N/A
	c) Unearthed d.c. mains supplies* :	EL 2112-15	No unearthed d.c. mains supplies	N/A
	d) Battery operation* :	EL 2112-16	The Equipment is not intended to be supplied by Battery	N/A
2.10.3.3	Clearances in primary circuits	EL 2112-17	See appended table 2.10.3 and 2.10.4	P
2.10.3.4	Clearances in secondary circuits	EL 2112-18	As above Cl. 2.10.3.3	P
2.10.3.5	Clearances in circuits having starting pulses	EL 2112-19	No such circuit used	N/A
2.10.3.6	Transients from a.c. mains supply :	EL 2112-20	Satisfactory	P
2.10.3.7	Transients from d.c. mains supply :	EL 2112-21	Not connected to dc mains	N/A
2.10.3.8	Transients from telecommunication networks and cable distribution systems	EL 2112-22	No telecommunication networks and cable distribution system	N/A
2.10.3.9	Measurement of transient voltage levels		No such construction used	N/A
	a) Transients from a mains supply	EL 2112-23	No such construction used	N/A
	For an a.c. mains supply		No such construction used	N/A
	For a d.c. mains supply		No such construction used	N/A
	b) Transients from a telecommunication network	EL 2112-24	No telecommunication networks and cable distribution system	N/A
2.10.4	Creepage distances*	EL 2112-25	See below	P
2.10.4.1	General	EL 2112-26	Satisfactory (See appended table 2.10.3 & 2.10.4)	P

2.10.4.2	Material group and comparative tracking index : CTI tests*	EL 2112-27	Material Group IIIb assumed to be used	P
2.10.4.3	Minimum creepage distances	EL 2112-28	(See appended table 2.10.3 & 2.10.4)	P
2.10.5	Solid insulation	EL 2112-29	See below	P
2.10.5.1	General	EL 2112-30	Satisfactory (See table 2.10.5)	P
2.10.5.2	Distances through insulation	EL 2112-31	(See table 2.10.5)	P
2.10.5.3	Insulating compound as solid insulation	EL 2112-32	(See table 2.10.5)	P
2.10.5.4	Semiconductor devices	EL 2112-33	Certified opto-coupler used (See table 1.5.1)	N/A
2.10.5.5.	Cemented joints	EL 2112-34	No cemented joints	N/A
2.10.5.6	Thin sheet material – General	EL 2112-35	Satisfactory	P
2.10.5.7	Separable thin sheet material	EL 2112-36	Plastic enclosure is used as a insulation sheet	P
2.10.5.8	Non-separable thin sheet material	EL 2112-37	No such non-separable thin sheet material used	N/A
2.10.5.9	Thin sheet material – standard test procedure	EL 2112-38	See above cl. No. 2.10.5.6	N/A
	Electric strength test as per Cl.5.2.2		See above cl. No. 2.10.5.6	N/A
2.10.5.10	Thin sheet material – alternative test procedure	EL 2112-39	See below	P
	Electric strength test as per Cl.5.2.2		See table 5.2	P
2.10.5.11	Insulation in wound components	EL 2112-40	No such construction used	N/A
2.10.5.12	Wire in wound components		Certified triple insulation wire used	P
	If Peak Working voltage >71 V		See table 2.10.2	P
	a) Basic insulation not under stress	EL 2112-41	No such construction	N/A
	b) Basic, supplementary, reinforced insulation	EL 2112-42	Reinforced insulation	P
	c) Compliance with Annex U	EL 2112-43	Certified triple insulation wire used	N/A
	d) Where two winding wires in contact inside wound component; angle between 45° and 90°	EL 2112-44	The insulation tape and bobbin are provide to protect against mechanical stress	P
2.10.5.13	Wire with solvent-based enamel in wound components		No such construction used	N/A
	a) Electric strength test (Type test as per Cl.5.2.2)	EL 2112-45	See above cl. No. 2.10.5.13	N/A
	b) Electric Strength test (Routine test as per Cl.5.2.2)	EL 2112-46	See above cl. No. 2.10.5.13	N/A
2.10.5.14	Additional insulation in wound components		See above cl. No. 2.10.5.13	N/A
	If Peak Working Voltage >71V		See above cl. No. 2.10.5.13	N/A
	a) Basic insulation not under stress	EL 2112-47	See above cl. No. 2.10.5.13	N/A
	b) Supplementary, reinforced insulation	EL 2112-48	See above cl. No. 2.10.5.13	N/A
2.10.6	Construction of printed boards*		See below	P
2.10.6.1	Uncoated printed boards	EL 2112-49	Refer Cl. 2.10.3 & Cl. 2.10.4	P
2.10.6.2	Coated printed boards	EL 2112-50	No such coated board used	N/A
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	EL 2112-51	No such construction	N/A

2.10.6.4	Insulation between conductors on different layers of a printed board*		Not used to provide supplementary or double reinforced insulation	N/A
	a) Minimum Thickness of insulation: 0.4mm or	EL 2112-52	See above Cl. 2.10.6.4	N/A
	b) Confirm with one of the specification and pass the relevant tests as per Table 2R	EL 2112-53	See above Cl. 2.10.6.4	N/A
2.10.7	Component external terminations	EL 2112-54	No such construction used	N/A
2.10.8	Tests on coated printed boards and coated components		Certified PCB material used	N/A
2.10.8.1	Sample preparation and preliminary inspection*	EL 2112-55	Refer Cl.2.10.8	N/A
2.10.8.2	Thermal conditioning	EL 2112-56	Refer Cl.2.10.8	N/A
2.10.8.3	Electric strength test	EL 2112-57	Refer Cl.2.10.8	N/A
2.10.8.4	Abrasion resistance test	EL 2112-58	Refer Cl.2.10.8	N/A
2.10.9	Thermal cycling	EL 2112-59	No such construction used	N/A
2.10.10	Test for Pollution Degree 1 environment and for insulating compound	EL 2112-60	Pollution Degree 2	N/A
2.10.11	Tests for semiconductor devices and for cemented joints	EL 2112-61	No such cemented joint used	N/A
2.10.12	Enclosed and sealed parts	EL 2112-62	No such components used	N/A

*- Total number of Requirements to be observed / inspected = 10

Total No of applicable Requirement = 06

No of Requirements for which the sample passed= 06

Total number of tests to be conducted = 53

Total No of applicable Tests = 22

No. of tests for which the sample passed=22

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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Tests relating to Wiring **EL 2113 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
3.0	Wiring, connections and supply*	EL 2113-00	See below	P
3.1.1	Current rating and overcurrent protection	EL 2113-01	Internal wires have adequate cross sectional area to carry the intended current	P
3.1.2	Protection against mechanical damage*	EL 2113-02	Wires are smooth and free from sharp edges	P
3.1.3	Securing of internal wiring*	EL 2113-03	No excessive strain on internal wire	P
3.1.4	Insulation of conductors	EL 2113-04	All conductor are insulated	P
3.1.5	Beads and ceramic insulators	EL 2113-05	Bead and ceramic insulator not used	N/A
3.1.6	Screws for electrical contact pressure*	EL 2113-06	No such screw used	N/A
3.1.7	Insulating materials in electrical connections*	EL 2113-07	No such insulation material used in electrical connection	N/A
3.1.8	Self-tapping and spaced thread screws*	EL 2113-08	No such screw used	N/A
3.1.9	Termination of conductors : 10 N pull test	EL 2113-09	No such construction	N/A
3.1.10	Sleeving on wiring*	EL 2113-10	No sleeving on wiring used	N/A

*- Total number of Requirements to be observed / inspected = 07
Total No of applicable Requirement = 03
No of Requirements for which the sample passed=03

Total number of tests to be conducted = 04
Total No of applicable Tests =02
No. of tests for which the sample passed=02

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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Tests relating to Wiring **EL 2114 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
3.2	Connection to a mains supply*	EL 2114-00	Satisfactory	P
3.2.1	Means of connection		See below	P
3.2.1.1	Connection to an a.c. mains supply*	EL 2114-01	Detachable power supply cord for connection to the mains supply by means of a plug	P
3.2.1.2	Connection to a d.c. mains supply*	EL 2114-02	Not connected to dc mains	N/A
3.2.2	Multiple supply connections	EL 2114-03	No multiple supply connections	N/A
3.2.3	Permanently connected equipment	EL 2114-04	Not a permanently connected equipment	N/A
3.2.4	Appliance inlets: Are so Located that parts at hazardous voltage are not accessible during insertion or removal of the connector, connector can be inserted without difficulty and after insertion of the connector, the equipment is not supported by the connector for any position of normal use on a flat surface (Appliance inlets complying with IEC 60309 or IEC 60320 considered to comply with this requirement.	EL 2114-05	Certified Appliance Inlet used (See table 1.5.1)	P
3.2.5	Power supply cords		See below	P
3.2.5.1	AC power supply cords*	EL 2114-06	Certified power supply cord used (See table 1.5.1)	P
	Rated current (A), cross-sectional area (mm^2), AWG		As above	P
3.2.5.2	DC power supply cords*	EL 2114-07	Not connected to dc mains	N/A
3.2.6	Cord anchorages and strain relief		Detachable power cord used	N/A
	Mass of the equipment: Pull Force (N):	EL 2114-08	As above Cl. 3.2.6	N/A
	b) Longitudinal displacement: 2 mm (Max)	EL 2114-09	As above Cl. 3.2.6	N/A
3.2.7	Protection against mechanical damage	EL 2114-10	No sharp point or cutting edge that may damage the supply cord	P
3.2.8	Cord guards		No such cord guard used	N/A
	Diameter or minor dimension D (mm) : Test mass (g) :	EL 2114-11	See above cl.no.3.2.8	N/A
	b) Radius of curvature of cord : 1.5 D (Min)	EL 2114-12	See above cl.no.3.2.8	N/A
3.2.9	Supply wiring space	EL 2114-13	In compliance	P

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*- Total number of Requirements to be observed / inspected = 05
Total No of applicable Requirement = 03
No of Requirements for which the sample passed =03

Total number of tests to be conducted = 09
Total No of applicable Tests = 03
No. of tests for which the sample passed=03

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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Tests relating to Wiring **EL 2115 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
3.3	Wiring terminals for connection of external conductors*	EL 2115-00	No such wiring terminal used	N/A
3.3.1	Wiring terminals*	EL 2115-01	See above cl.no.3.3	N/A
3.3.2	Connection of non-detachable power supply cords	EL 2115-02	See above cl.no.3.3	N/A
3.3.3	Screw terminals*	EL 2115-03	See above cl.no.3.3	N/A
3.3.4	Conductor sizes to be connected	EL 2115-04	See above cl.no.3.3	N/A
	Rated current (A), cord/cable type, cross-sectional area (mm2)		See above cl.no.3.3	N/A
3.3.5	Wiring terminal sizes	EL 2115-05	See above cl.no.3.3	N/A
	Rated current (A), type, nominal thread diameter (mm)		See above cl.no.3.3	N/A
3.3.6	Wiring terminal design	EL 2115-06	See above cl.no.3.3	N/A
3.3.7	Grouping of wiring terminals*	EL 2115-07	See above cl.no.3.3	N/A
3.3.8	Stranded wire	EL 2115-08	See above cl.no.3.3	N/A

*- Total number of Requirements to be observed / inspected = 04
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 05
Total No of applicable Tests = 00
No. of tests for which the sample passed=N/A

Certificate: It is certified that the above tests were performed and found to be ~~passing/failing~~ in the requirement tested.
(These tests/requirements are not applicable)

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Tests relating to Wiring **EL 2116 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
3.4	Disconnection from the mains supply*	EL 2116-00	Disconnect devices provided to disconnect the equipment from mains for servicing	P
3.4.1	General Requirement A disconnect device or devices shall be provided to disconnect the equipment from the mains supply for servicing.	EL 2116-01	See below	P
3.4.2	Disconnect devices*	EL 2116-02	Appliance Inlet is used as disconnect device	P
3.4.3	Permanently connected equipment*	EL 2116-03	Not a permanently connected equipment	N/A
3.4.4	Parts which remain energized*	EL 2116-04	No parts remain energized	N/A
3.4.5	Switches in flexible cords*	EL 2116-05	No switches in flexible cords	N/A
3.4.6	Number of poles – single-phase and d.c. equipment*	EL 2116-06	Disconnect device disconnect both poles simultaneously	P
3.4.7	Number of poles – three-phase equipment*	EL 2116-07	Single phase equipment	N/A
3.4.8	Switches as disconnect devices*	EL 2116-08	No such switch is used in construction	N/A
3.4.9	Plugs as disconnect devices*	EL 2116-09	Plug on power cord is also used as a disconnect device	P
3.4.10	Interconnected equipment*	EL 2116-10	No such interconnected equipment	N/A
3.4.11	Multiple power sources*	EL 2116-11	No multiple power sources	N/A

*- Total number of Requirements to be observed / inspected = 11
Total No of applicable Requirement = 04
No of Requirements for which the sample passed= 04

Total number of tests to be conducted = 01
Total No of applicable Tests = 01
No. of tests for which the sample passed= 01

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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Tests relating to Wiring **EL 2117 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
3.5	Interconnection of equipment*	EL 2117-00	See below	P
3.5.1	General requirements*	EL 2117-01	Interconnection of SELV circuit complies with Cl. 2.2	P
3.5.2	Types of interconnection circuits*	EL 2117-02	SELV interconnection circuit	P
3.5.3	ELV circuits as interconnection circuits *	EL 2117-03	No ELV interconnection circuit in EUT	N/A
3.5.4	Data ports for additional equipment	EL 2117-04	No such data ports used	N/A

*- Total number of Requirements to be observed / inspected = 04
Total No of applicable Requirement = 03
No of Requirements for which the sample passed= 03

Total number of tests to be conducted = 01
Total No of applicable Tests = 00
No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

.....
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Tests relating to Mechanical Properties **EL 2118 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
4	PHYSICAL REQUIREMENTS*	EL 2118-00	Refer Cl. No 4.1 – 4.7	P
4.1	Stability	EL 2118-01	See below	N/A
	a) A unit having a mass of 7 kg or more shall not fall over when tilted to an angle of 10° from its normal upright position. Alternatively, the unit is placed in its intended position of use on a plane, inclined at an angle of 10° to the horizontal, and then rotated slowly through an angle of 360° about its normal vertical axis.	EL 2118-02	Mass of EUT is not exceeding 7kg	N/A
	b) A floor-standing unit having a mass of 25 kg or more shall not fall over when a force equal to 20 % of the weight of the unit, but not more than 250 N, is applied in any direction except upwards, at a height not exceeding 2 m from the floor.	EL 2118-03	Mass not exceeding 25kg	N/A
	c) A floor-standing unit shall not fall over when a constant downward force of 800 N is applied at the point of maximum moment to any horizontal surface of at least 125 mm by at least 200 mm, at a height up to 1 m from the floor.	EL 2118-04	As above	N/A

*- Total number of Requirements to be observed / inspected = 01
Total No of applicable Requirement = 01
No of Requirements for which the sample passed= 01

Total number of tests to be conducted = 04
Total No of applicable Tests = 00
No. of tests for which the sample passed=N/A

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

.....
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Tests relating to Mechanical Properties **EL 2119 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
4.2	Mechanical Strength	EL 2119-00	See below	P
4.2.1	General	EL 2119-01	Considered	P
4.2.2	Steady force test, 10 N	EL 2119-02	10N Applied on weakest parts other than serving enclosure No damage No hazard observed	P
4.2.3	Steady force test, 30 N	EL 2119-03	No such door and cover	N/A
4.2.4	Steady force test, 250 N	EL 2119-04	Enclosure withstood the steady force test of 250N No damage No hazard observed	P
4.2.5	Impact test	EL 2119-05	Equipment is not of the category where impact test is performed	N/A
	a) Fall test as per Fig. 4A	EL 2119-06	See above Cl. 4.2.5	N/A
	b) Swing test as per Fig. 4A	EL 2119-07	See above Cl. 4.2.5	N/A
4.2.6	Drop test; height (mm) :	EL 2119-08	Equipment is dropped three times from the height of 1000mm. No damage or breakage observed after the test	P
4.2.7	Stress relief test	EL 2119-09	Test performed at 70°C for 7 hours No shrinkage or deformation of enclosure	P
4.2.8	Cathode Ray Tubes	EL 2119-10	No cathode ray tube	N/A
4.2.9	High Pressure Lamps*	EL 2119-11	No high pressure lamps	N/A
4.2.10	Wall or ceiling mounted equipment; force(N)	EL 2119-12	No such equipment	N/A

*- Total number of Requirements to be observed / inspected = 01
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 12
Total No of applicable Tests = 06
No. of tests for which the sample passed= 06

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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(Approving Authority)

Tests relating to Mechanical Properties **EL 2120 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
4.3	Design and Construction*	EL 2120-00	See below	P
4.3.1	Edges and corners*	EL 2120-01	Edges and corners of the enclosure are well rounded	P
4.3.2	Handles and manual controls; force (N)	EL 2120-02	No handles and manual controls used	N/A
4.3.3	Adjustable controls	EL 2120-03	No safety relevant adjustable controls provided	N/A
4.3.4	Securing of parts	EL 2120-04	All parts are secured	P
4.3.5	Connections by Plugs and Sockets*	EL 2120-05	Certified plug and Appliance Inlet is used	P
4.3.6	Direct plug-in equipment	EL 2120-06	Not a direct plug-in equipment	N/A
	Torque	EL 2120-07	See above clause no. 4.3.6	N/A
	Compliance with the relevant mains plug standard	EL 2120-08	See above clause no. 4.3.6	N/A
4.3.7	Heating elements in earthed equipment*	EL 2120-09	No heating elements	N/A
4.3.8	Batteries: Portable secondary sealed cells and batteries (Other than button) containing alkaline or other non-acid electrolyte Comply with IEC 62133.		No such battery used in construction	N/A
	a) Overcharging of a rechargeable battery	EL 2120-10	See above clause no. 4.3.8	N/A
	b) Unintentional charging of a non-rechargeable battery	EL 2120-11	See above clause no. 4.3.8	N/A
	c) Reverse charging of a rechargeable battery	EL 2120-12	See above clause no. 4.3.8	N/A
	d) Excessive discharging rate for any battery	EL 2120-13	See above clause no. 4.3.8	N/A
	e) Electric strength as per Cl.5.3.9.2	EL 2120-14	See above clause no. 4.3.8	N/A
4.3.9	Oil & grease*	EL 2120-15	No Oil & Grease	N/A
4.3.10	Dust, powders, liquids and gases	EL 2120-16	Equipment does not produce dust, powder, liquids and gases	N/A
4.3.11	Containers for liquids or gases	EL 2120-17	No such containers for liquids or gases	N/A
4.3.12	Flammable liquids	EL 2120-18	No such flammable liquids used	N/A
4.3.13	Radiation		See below	N/A
4.3.13.2	Ionizing radiation	EL 2120-19	No ionizing radiation	N/A
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	EL 2120-20	No UV radiation	N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation	EL 2120-21	No UV radiation	N/A
4.3.13.5	Lasers (including laser diodes) and LED's:		See below	N/A
4.3.13.5.1	Lasers (including laser diodes) For laser see IEC 60825-1, respective part as applicable.	EL 2120-22	No laser used	N/A
	Laser class:		As above Cl. 4.3.13.5.1	N/A

4.3.13.5.2	Light emitting diodes (LED's)	EL 2120-23	LED is used only for indicating purpose	N/A
4.3.13.6	Other types*	EL 2120-24	No other type of radiation	N/A

*- Total number of Requirements to be observed / inspected = 06
Total No of applicable Requirement = 03
No of Requirements for which the sample passed= 03

Total number of tests to be conducted = 19
Total No of applicable Tests = 01
No. of tests for which the sample passed= 01

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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Report No. SC24EPF05482_1	IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 /	Page 41 of 109
Dated: 20/06/2024	IEC 60950-1: 2005 + A1:2009 + A2 : 2013	ULR No.: TC509924200000379F

Tests relating to Mechanical Properties **EL 2121 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
4.4	Protection against hazardous moving parts	EL 2121-00	No such hazardous moving parts used	N/A
4.4.1	General	EL 2121-01	See above Cl. 4.4	N/A
4.4.2	Protection in operator access areas	EL 2121-02	See above Cl. 4.4	N/A
4.4.3	Protection in restricted access locations *	EL 2121-03	See above Cl. 4.4	N/A
4.4.4	Protection in service access areas*	EL 2121-04	See above Cl. 4.4	N/A
4.4.5	Protection against moving fan blades	EL 2121-05	See above Cl. 4.4	N/A
4.4.5.1	General*	EL 2121-06	See above Cl. 4.4	N/A
	Not considered likely to cause pain or injury. A)…….:	EL 2121-07	See above Cl. 4.4	N/A
	Is considered likely to cause pain, not injury. B)	EL 2121-08	See above Cl. 4.4	N/A
	Considered likely to cause injury. C)……..:	EL 2121-09	See above Cl. 4.4	N/A
4.4.5.2	Protection for users*	EL 2121-10	See above Cl. 4.4	N/A
	Use of symbol or warning*	EL 2121-11	See above Cl. 4.4	N/A
4.4.5.3	Protection for service persons*	EL 2121-12	See above Cl. 4.4	N/A
	Use of symbol or warning *	EL 2121-13	See above Cl. 4.4	N/A

*- Total number of Requirements to be observed / inspected = 07
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 07
Total No of applicable Tests = 00
No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be ~~passing/failing~~ in the requirement tested.
(These tests/requirements are not applicable)

……
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Report No. SC24EPF05482_1	IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 /	Page 42 of 109
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Tests relating to Thermal Properties **EL 2122 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
4.5	Thermal Requirements*	EL 2122-00	See below	P
4.5.1	General	EL 2122-01	Satisfactory (See table 4.5)	P
4.5.2	Temperature tests under normal load condition as per Cl.1.4.5	EL 2122-02	Operating the EUT under normal load condition until obtaining the steady state condition (See table 4.5)	P
4.5.3	Temperature limits for materials*	EL 2122-03	Temperature rise of different parts is still complying the relevant requirement of this standard (See table 4.5)	P
4.5.4	Touch temperature limits*	EL 2122-04	Touch temperature limits is still complying the relevant requirement of this standard (See table 4.5)	P
4.5.5	Resistance to abnormal heat	EL 2122-05	Certified Appliance inlet and material used	N/A

*- Total number of Requirements to be observed / inspected = 03
Total No of applicable Requirement = 03
No of Requirements for which the sample passed= 03

Total number of tests to be conducted = 03
Total No of applicable Tests = 02
No. of tests for which the sample passed= 02

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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Tests relating to Mechanical Properties **EL 2123 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
4.6	Openings in enclosures*	EL 2123-00	No such opening used	N/A
4.6.1	Top and side openings	EL 2123-01	See above Cl.4.6	N/A
	Dimensions (mm) :		See above Cl.4.6	N/A
4.6.2	Bottoms of fire enclosures :	EL 2123-02	See above Cl.4.6	N/A
	Construction of the bottom, dimensions (mm) :		See above Cl.4.6	N/A
4.6.3	Doors or covers in fire enclosures*	EL 2123-03	See above Cl.4.6	N/A
4.6.4	Openings in transportable equipment	EL 2123-04	See above Cl.4.6	N/A
4.6.4.1	Constructional design measures	EL 2123-05	See above Cl.4.6	N/A
	Dimensions (mm)		See above Cl.4.6	N/A
4.6.4.2	Evaluation measures for larger openings	EL 2123-06	See above Cl.4.6	N/A
4.6.4.3	Use of etalized parts	EL 2123-07	See above Cl.4.6	N/A
4.6.5	Adhesives for constructional purposes: Compliance is checked by examination of the construction and of the available data. If such data is not available, compliance is checked by the following tests.	EL 2123-08	See above Cl.4.6	N/A
	a)Temperature Conditioning at : 100 °C ± 2 °C for one week; or 90 °C ± 2 °C for three weeks; or 82 °C ± 2 °C for eight weeks.	EL 2123-09	See above Cl.4.6	N/A
	After temperature conditioning b) Leave the sample between 20°C to 30°C for 1 hour	EL 2123-10	See above Cl.4.6	N/A
	c) Place the sample at – 40°C±2°C for 4 hours	EL 2123-11	See above Cl.4.6	N/A
	d) Remove and allow the sample to come to any convenient temperature between 20 °C and 30 °C for 8 h;	EL 2123-12	See above Cl.4.6	N/A
	e) Place the sample in a cabinet at 91 % to 95 % relative humidity for 72 h;	EL 2123-13	See above Cl.4.6	N/A
	f) Remove the sample and leave it at any convenient temperature between 20 °C and 30 °C for 1 h;	EL 2123-14	See above Cl.4.6	N/A
	g) Place the sample in an oven at the temperature used for the temperature conditioning for 4 h;	EL 2123-15	See above Cl.4.6	N/A
	h) Remove the sample and allow it to reach any convenient temperature between 20 °C; and 30 °C for 8 h.	EL 2123-16	See above Cl.4.6	N/A
	i) The sample is then immediately subjected to the tests of Cl.4.2 as applicable.	EL 2123-17	See above Cl.4.6	N/A

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*- Total number of Requirements to be observed / inspected = 02

Total No of applicable Requirement = 00

No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 16

Total No of applicable Tests = 00

No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be ~~passing/failing~~ in the requirement tested.
(These tests/requirements are not applicable)

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(Approving Authority)

Tests relating to Fire Safety **EL 2124 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
4.7	Resistance to fire*	EL 2124-00	See below	P
4.7.1	Reducing the risk of ignition and spread of flame		Components and material have adequate flammability classification (See table 1.5.1)	P
	Method 1, selection and application of components wiring and materials OR	EL 2124-01	Selection and application of components and materials that reduce the possibility of ignition and speared of flame and use of fire enclose	P
	Method 2, application of all of simulated fault condition tests	EL 2124-02	Method 2 not used	N/A
4.7.2	Conditions for a fire enclosure*		See below	P
4.7.2.1	Parts requiring a fire enclosure*	EL 2124-03	All parts cover inside fire enclosure	P
4.7.2.2	Parts not requiring a fire enclosure	EL 2124-04	All parts cover inside fire enclosure	N/A
4.7.3	Materials*	EL 2124-05	See below	P
4.7.3.1	General*	EL 2124-06	See below	P
	a)Class of material used*	EL 2124-07	Components and materials have adequate flammability classes (See table 1.5.1)	P
	b) Where HB40 CLASS MATERIAL, HB75 CLASS MATERIAL or HBF CLASS FOAMED MATERIAL, is required, material passing the glow-wire test at 550 °C according to IEC 60695-2-11 is acceptable as an alternative.	EL 2124-08	No such material used	N/A
	c) Where it is not practical to protect components against overheating under fault conditions, the components shall be mounted on V-1 CLASS MATERIAL. Additionally, such components shall be separated from material of a class lower than V-1 CLASS MATERIAL by at least 13 mm of air, or by a solid barrier of V-1 CLASS MATERIAL.	EL 2124-09	Certified material used (See table 1.5.1)	P
4.7.3.2	Materials for fire enclosures		See below	N/A
	a) For MOVABLE EQUIPMENT having a total mass not exceeding 18 kg, the material of a FIRE ENCLOSURE, in the thinnest significant wall thickness used, shall be of V-1 CLASS MATERIAL or shall pass the test of Clause A.2.	EL 2124-10	Certified material used (See table 1.5.1)	N/A
	b) For MOVABLE EQUIPMENT having a total mass exceeding 18 kg and for all STATIONARY EQUIPMENT, the material of a FIRE ENCLOSURE, in the thinnest significant wall thickness used, shall be of 5VB CLASS MATERIAL or shall pass the test of Clause A.1.	EL 2124-11	Equipment having total mass not exceeding 18kg	N/A

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	c) Materials for components that fill an opening in a FIRE ENCLOSURE, and that are intended to be mounted in this opening shall : be of V-1 CLASS MATERIAL; or pass the tests of Clause A.2; or comply with the flammability requirements of the relevant IEC component standard	EL 2124-12	See above Cl.4.7.3.2	N/A
	d) Plastic materials of a FIRE ENCLOSURE shall be located more than 13 mm through air from arcing parts such as unenclosed commutators and unenclosed switch contacts.	EL 2124-13	See above Cl.4.7.3.2	N/A
	e)Plastic materials of a FIRE ENCLOSURE located less than 13mm through air from non-arcing parts which, under any condition of normal or abnormal operation, could attain a temperature sufficient to ignite the material, shall be capable of passing the test of IEC 60695-2-20	EL 2124-14	See above Cl.4.7.3.2	N/A
4.7.3.3	Materials for components and other parts outside fire enclosures *		No parts outside of fire enclosure	N/A
	a) Materials shall be of : – HB75 CLASS MATERIAL if the thinnest significant thickness of this material is < 3 mm, or – HB40 CLASS MATERIAL if the thinnest significant thickness of this material is ≥ 3 mm, or – HBF CLASS FOAMED MATERIAL.*	EL 2124-15	See above Cl.4.7.3.3	N/A
	b) Connectors shall comply with one of the following: – be made of V-2 CLASS MATERIAL; or – pass the tests of Clause A.2; or – comply with the flammability requirements of the relevant IEC component standard; or – be mounted on V-1 CLASS MATERIAL and be of a small size; or – be located in a SECONDARY CIRCUIT supplied by a power source that is limited to a maximum of 15 VA (see 1.4.11) under normal operating conditions and after a single fault in the equipment (see 1.4.14).	EL 2124-16	See above Cl.4.7.3.3	N/A
4.7.3.4	Materials for components and other parts inside fire enclosures		Satisfactory	P

	a) Inside FIRE ENCLOSURES, materials for components and other parts shall comply with one of the following: – be of V-2 CLASS MATERIAL or HF-2 CLASS FOAMED MATERIAL; or – pass the flammability test described in Clause A.2; or – meet the flammability requirements of a relevant IEC component standard that includes such requirements.	EL 2124-17	All components are mounted on approved class of material (See table 1.5.1)	P
	Requirements for voltage dependent resistors (VDR's) are in Annex Q.*	EL 2124-18	Certified VDR (MOV1) used (See table 1.5.1)	N/A
4.7.3.5	Materials for air filter assemblies : Air filter assemblies shall be constructed of V-2 CLASS MATERIAL, or HF-2 CLASS FOAMED MATERIAL.	EL 2124-19	No air filter assemblies	N/A
4.7.3.6	Materials used in high-voltage components		No high voltage components	N/A
	a) High-voltage components operating at peak-to-peak voltages exceeding 4 kV shall either be of V-2 CLASS MATERIAL, or HF-2 CLASS FOAMED MATERIAL, or comply with 14.4 of IEC 60065 or pass the needle flame test according to IEC 60695-11-5.	EL 2124-20	See above cl. no. 4.7.3.6	N/A
	b) Compliance is checked by inspection of the equipment and material data sheets and, if necessary, by – the tests for V-2 CLASS MATERIAL or HF-2 CLASS FOAMED MATERIAL; or – the test described in 14.4 of IEC 60065; or – the needle flame test according to IEC 60695-11-5.	EL 2124-21	See above Cl.4.7.3.6	N/A
	c) In addition to above, the following details apply, referring to clauses of IEC 60695-11-5: Clause 7 - Severities	EL 2124-22	See above Cl.4.7.3.6	N/A
	Clause 8 – Conditioning	EL 2124-23	See above Cl.4.7.3.6	N/A
	Clause 11 – Evaluation of test results	EL 2124-24	See above Cl.4.7.3.6	N/A

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*- Total number of Requirements to be observed / inspected = 07
Total No of applicable Requirement = 05
No of Requirements for which the sample passed= 05

Total number of tests to be conducted = 18
Total No of applicable Tests = 03
No. of tests for which the sample passed= 03

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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Tests relating to Insulating Properties **EL 2125 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
5.0	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS*	EL 2125-00	See below	P
5.1	Touch current and protective conductor current*	EL 2125-01	Satisfactory	P
5.1.2	Configuration of equipment under test (EUT)*	EL 2125-02	See below	P
5.1.2.1	Single connection to an a.c. mains supply*	EL 2125-03	Equipment has only single a.c. mains connection	P
5.1.2.2	Redundant multiple connections to an a.c. mains supply*	EL 2125-04	No multiple power sources	N/A
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply	EL 2125-05	No multiple power sources	N/A
5.1.3	Test circuit	EL 2125-06	See below	P
5.1.4	Application of measuring instrument	EL 2125-07	Testing using D-1 measuring instrument	P
5.1.5	Test procedure	EL 2125-08	See below	P
5.1.6	Test measurements		See table 5.1.6	P
	a) Value of voltage, U2 measured using the instrument as per Fig. D.1	EL 2125-09	See table 5.1.6	P
	b) Measured touch current (mA):	EL 2125-10	See table 5.1.6	P
	c) Calculated value of TOUCH CURRENT (mA) = U2 / 500	EL 2125-11	See table 5.1.6	P
	d)Measured protective conductor current(mA)	EL 2125-12	No such protective conductor current	N/A
	e) Max. protective conductor current =5% of Input current	EL 2125-13	No such protective conductor current	N/A
5.1.7	Equipment with touch current exceeding 3.5 mA	EL 2125-14	The touch current not exceeded 3.5 mA	N/A
5.1.7.1	General	EL 2125-15	See below	N/A
5.1.7.2	Simultaneous multiple connections to the supply	EL 2125-16	No such equipment	N/A
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks	EL 2125-17	No connection to the telecommunication network or cable distribution system	N/A
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system	EL 2125-18	Refer above Cl. No.5.1.8	N/A
	Supply voltage (V)		Refer above Cl. No.5.1.8	N/A
	Measured touch current (mA)		Refer above Cl. No.5.1.8	N/A
	Max. allowed touch current (mA)		Refer above Cl. No.5.1.8	N/A
5.1.8.2	Summation of touch currents from telecommunication networks	EL 2125-19	No connection to the telecommunication network or distribution	N/A
	a) EUT with earthed telecommunication ports :		Refer above Cl. No.5.1.8.2	N/A
	b) EUT whose telecommunication ports have no reference to protective earth		Refer above Cl. No.5.1.8.2	N/A

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*- Total number of Requirements to be observed / inspected = 05
Total No of applicable Requirement = 04
No of Requirements for which the sample passed= 04

Total number of tests to be conducted = 15
Total No of applicable Tests = 06
No. of tests for which the sample passed= 06

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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Tests relating to Insulating Properties **EL 2126 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
5.2	Electric strength*	EL 2126-00	See below	P
5.2.1	General*	EL 2126-01	See appended table 5.2	P
5.2.2	Test procedure		Table 5B Used	P
	a) The test voltages for electric strength for the appropriate grade of insulation [FUNCTIONAL INSULATION if required by 5.3.4 b), BASIC INSULATION, SUPPLEMENTARY INSULATION or REINFORCED INSULATION] are as specified in either: – Table 5B using the PEAK WORKING VOLTAGE (U), as determined in 2.10.2; or – Table 5C using the REQUIRED WITHSTAND VOLTAGE, as determined in G.4.	EL 2126-02	No breakdown observed during the test, performance found satisfactory after the test.	P

*- Total number of Requirements to be observed / inspected = 02
Total No of applicable Requirement = 02
No of Requirements for which the sample passed= 02

Total number of tests to be conducted = 01
Total No of applicable Tests = 01
No. of tests for which the sample passed= 01

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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Tests relating to Insulating Properties **EL 2127 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
5.3	Abnormal operating and fault conditions	EL 2127-00	See below	P
5.3.1	Protection against overload and abnormal operation	EL 2127-01	See appended table 5.3	P
5.3.2	Motors	EL 2127-02	No such motor used	N/A
5.3.3	Transformers	EL 2127-03	Tested within Appliance (See appended Annex C & table C.2)	P
5.3.4	Functional insulation:	EL 2127-04	Functional insulation complied with 5.3.4 (C)	P
5.3.5	Electromechanical components	EL 2127-05	No such components	N/A
5.3.6	Audio amplifiers in ITE :	EL 2127-06	No such audio amplifier used within the EUT	N/A
5.3.7	Simulation of faults	EL 2127-07	See appended table 5.3	P
5.3.8	Unattended equipment	EL 2127-08	No such equipment	N/A
5.3.9	Compliance criteria for abnormal operating and fault conditions*		See below	P
5.3.9.1	During the tests	EL 2127-09	No flame in the equipment, No molten metal was emitted	P
5.3.9.2	After the tests	EL 2127-10	After test, the EUT still complies with the relevant requirements of this standard.	P

*- Total number of Requirements to be observed / inspected = 00
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 11
Total No of applicable Tests = 07
No. of tests for which the sample passed= 07

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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Tests relating to Communicating Connection **EL 2128 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
6.1	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment	EL 2128-00	No connection to telecommunication networks	N/A
6.1.1	Protection from hazardous voltages	EL 2128-01	See above cl. No 6.1	N/A
6.1.2	Separation of the telecommunication network from earth*		See above cl. No 6.1	N/A
6.1.2.1	Requirements: Surge suppressors that bridge the insulation shall have a minimum rated operating voltage U_{op} of $U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$ Where U_{peak} is 360V or 180V ΔU_{sp} is the maximum increase of the rated operating voltage due to variations in component production(If not specified by the manufacturer, shall be taken as 10% of the rated operating voltage of the component) ΔU_{sa} is the maximum increase of the rated operating voltage due to the component ageing over the expected life of the equipment(If not specified by the manufacturer, shall be taken as 10% of the rated operating voltage of the component) -Insulation is subjected to electric strength test according to 5.2.2. The a.c test voltage is 1.5kV or 1.0kV - Components bridging the insulation that are left in place during electric strength testing shall not be damaged. There shall be no breakdown of insulation during electric strength testing.	EL 2128-02	See above cl. No 6.1	N/A
6.1.2.2	Exclusions	EL 2128-03	See above cl. No 6.1	N/A

*- Total number of Requirements to be observed / inspected = 00

Total No of applicable Requirement = 00

No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 04

Total No of applicable Tests = 00

No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be ~~passing/failing~~ in the requirement tested.

(These tests/requirements are not applicable)

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(Approving Authority)

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Tests relating to Communicating Connection **EL 2129 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
6.2	Protection of equipment users from overvoltages on telecommunication networks*	EL 2129-00	No connection to telecommunication networks	N/A
6.2.1	Separation requirements	EL 2129-01	See above cl. No. 6.2	N/A
6.2.2	Electric strength test procedure	EL 2129-02	See above cl. No. 6.2	N/A
6.2.2.1	Impulse test	EL 2129-03	See above cl. No. 6.2	N/A
6.2.2.2	Steady-state test	EL 2129-04	See above cl. No. 6.2	N/A
6.2.2.3	Compliance criteria	EL 2129-05	See above cl. No. 6.2	N/A

*- Total number of Requirements to be observed / inspected = 01
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 05
Total No of applicable Tests = 00
No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be ~~passing/failing~~ in the requirement tested.
(These tests/requirements are not applicable)

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(Approving Authority)

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Tests relating to Communicating Connection **EL 2130 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
6.3	Protection of the telecommunication wiring system from overheating	EL 2130-00	No connection to telecommunication networks	N/A
	a)If current limiting is due to the inherent impedance of the power source, the output current into any resistive load, including a short-circuit, is measured. The current limit shall not be exceeded after 60 s of test. Max. output current (A) :	EL 2130-01	See above 6.3	N/A
	b) If current limiting is provided by an overcurrent protective device having a specified time/current characteristic: – the time/current characteristic shall show that a current equal to 110 % of the current limit will be interrupted within 60 min; and	EL 2130-02	See above 6.3	N/A
	c) the output current into any resistive load, including a short-circuit, with the overcurrent protective device bypassed, measured after 60 s of test, shall not exceed 1 000/U, where U is the output voltage measured in accordance with 1.4.5 with all load circuits disconnected.	EL 2130-03	See above 6.3	N/A
	d) If current limiting is provided by an overcurrent protective device that does not have a specified time/current characteristic: – the output current into any resistive load, including a short-circuit, shall not exceed the current limit after 60 s of test; and – the output current into any resistive load, including a short-circuit, with the overcurrent protective device bypassed, measured after 60 s of test, shall not exceed 1 000/U, where U is the output voltage measured in accordance with 1.4.5 with all load circuits Disconnected.	EL 2130-04	See above 6.3	N/A

*- Total number of Requirements to be observed / inspected = 00

Total No of applicable Requirement = 00

No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 05

Total No of applicable Tests = 00

No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be ~~passing/failing~~ in the requirement tested.

(These tests/requirements are not applicable)

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Tests relating to Connection to cable distribution system **EL 2131 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
7	Connection to cable distribution systems*	EL 2131-00	No connection to cable distribution system	N/A
7.1	General requirements*	EL 2131-01	See above Cl. 7	N/A
7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment	EL 2131-02	See above Cl. 7	N/A
7.3	Protection of equipment users from overvoltages on the cable distribution system	EL 2131-03	See above Cl. 7	N/A
7.4	Insulation between primary circuits and cable distribution systems	EL 2131-04	See above Cl. 7	N/A
7.4.1	General	EL 2131-05	See above Cl. 7	N/A
7.4.2	Voltage surge test	EL 2131-06	See above Cl. 7	N/A
7.4.3	Impulse test	EL 2131-07	See above Cl. 7	N/A

*- Total number of Requirements to be observed / inspected = 02
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 06
Total No of applicable Tests = 00
No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be ~~passing/failing~~ in the requirement tested.
(These tests/requirements are not applicable)

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Tests relating to Fire Safety **EL 2132 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
A	ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE	EL 2132-00	See below	N/A
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)	EL 2132-01	Mass not exceeding 18kg	N/A
A.1.1	Samples:	EL 2132-02	See above A.1	N/A
	Wall thickness (mm):		See above A.1	N/A
A.1.2	Conditioning of samples; temperature (°C) :	EL 2132-03	See above A.1	N/A
A.1.3	Mounting of samples :	EL 2132-04	See above A.1	N/A
A.1.4	Test flame (see IEC 60695-11-3)	EL 2132-05	See above A.1	N/A
	Flame A, B, C or D :		See above A.1	N/A
A.1.5	Test procedure	EL 2132-06	See above A.1	N/A
A.1.6	Compliance criteria	EL 2132-07	See above A.1	N/A
	Sample 1 burning time (s):		See above A.1	N/A
	Sample 2 burning time (s):		See above A.1	N/A
	Sample 3 burning time (s):		See above A.1	N/A
A.2	Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4)	EL 2132-08	Certified material used (See table 1.5.1)	N/A
A.2.1	Samples, material:	EL 2132-09	See above A.2	N/A
	Wall thickness (mm):		See above A.2	N/A
A.2.2	Conditioning of samples; temperature (°C) :	EL 2132-10	See above A.2	N/A
A.2.3	Mounting of samples :	EL 2132-11	See above A.2	N/A
A.2.4	Test flame (see IEC 60695-11-4)	EL 2132-12	See above A.2	N/A
	Flame A, B or C :		See above A.2	N/A
A.2.5	Test procedure	EL 2132-13	See above A.2	N/A
A.2.6	Compliance criteria	EL 2132-14	See above A.2	N/A
	Sample 1 burning time (s):		See above A.2	N/A
	Sample 2 burning time (s):		See above A.2	N/A
	Sample 3 burning time (s):		See above A.2	N/A
A.2.7	Alternative test acc. To IEC 60695-11-5, cl. 5 and 9	EL 2132-15	See above A.2	N/A
	Sample 1 burning time (s):		See above A.2	N/A
	Sample 2 burning time (s):		See above A.2	N/A
	Sample 3 burning time (s):		See above A.2	N/A

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A.3	Hot flaming oil test (see 4.6.2)	EL 2132-16	No such openings	N/A
A.3.1	Mounting of samples	EL 2132-17	See above A.3	N/A
A.3.2	Test procedure	EL 2132-18	See above A.3	N/A
A.3.3	Compliance criterion	EL 2132-19	See above A.3	N/A

*- Total number of Requirements to be observed / inspected = 00
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 20
Total No of applicable Tests = 00
No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be ~~passing/failing~~ in the requirement tested.
(These tests/requirements are not applicable)

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Tests relating to Insulating Properties **EL 2133 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
B	ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)	EL 2133-00	See below	N/A
B.1	General requirements	EL 2133-01	No such motor used	N/A
	Position :		See above B.1	N/A
	Manufacturer :		See above B.1	N/A
	Type :		See above B.1	N/A
	Rated values :		See above B.1	N/A
B.2	Test conditions	EL 2133-02	See above B.1	N/A
B.3	Maximum temperatures	EL 2133-03	See above B.1	N/A
B.4	Running overload test	EL 2133-04	See above B.1	N/A
B.5	Locked-rotor overload test	EL 2133-05	See above B.1	N/A
	Test duration (days):		See above B.1	N/A
	Electric strength test: test voltage (V) :		See above B.1	N/A
B.6	Running overload test for d.c. motors in secondary circuits	EL 2133-06	See above B.1	N/A
B.6.1	General	EL 2133-07	See above B.1	N/A
B.6.2	Test procedure	EL 2133-08	See above B.1	N/A
B.6.3	Alternative test procedure	EL 2133-09	See above B.1	N/A
B.6.4	Electric strength test; test voltage (V):	EL 2133-10	See above B.1	N/A
B.7	Locked-rotor overload test for d.c. motors in secondary circuits	EL 2133-11	See above B.1	N/A
B.7.1	General	EL 2133-12	See above B.1	N/A
B.7.2	Test procedure	EL 2133-13	See above B.1	N/A
B.7.3	Alternative test procedure	EL 2133-14	See above B.1	N/A
B.7.4	Electric strength test; test voltage (V) :	EL 2133-15	See above B.1	N/A
B.8	Test for motors with capacitors	EL 2133-16	See above B.1	N/A
B.9	Test for three-phase motors	EL 2133-17	See above B.1	N/A
B.10	Test for series motors	EL 2133-18	See above B.1	N/A
	Operating voltage (V) :		See above B.1	N/A

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*- Total number of Requirements to be observed / inspected = 00

Total No of applicable Requirement = 00

No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 19

Total No of applicable Tests = 00

No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be ~~passing/failing~~ in the requirement tested.
(These tests/requirements are not applicable)

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Tests relating to Electrical Safety **EL 2134 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
C	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)*	EL 2134-00	Satisfactory	P
	Position :		Transformer mounted on the approved PCB	P
	Manufacturer :		See table 1.5.1	P
	Type :		See table 1.5.1	P
	Rated values :		See table 1.5.1	P
	Method of protection:		Overcurrent protection by circuit design	P
C.1	Overload test	EL 2134-01	See table 5.3	P
C.2	Insulation	EL 2134-02	Insulation fulfill the requirement for Cl. 2.10 and Cl. 5.2 (See table 2.10.2 & table 5.2)	P
	Protection from displacement of windings:		Windings are twisted and soldered on pins and Approved Triple insulated wire used	P

*- Total number of Requirements to be observed / inspected = 01
Total No of applicable Requirement = 01
No of Requirements for which the sample passed= 01

Total number of tests to be conducted = 02
Total No of applicable Tests = 02
No. of tests for which the sample passed= 02

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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Tests relating to Insulating Properties **EL 2135 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
D	ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4)	EL 2135-00	Satisfactory (See Clause 5.1.4)	P
D.1	Measuring instrument	EL 2135-01	Satisfactory (D-1 network used)	P
D.2	Alternative measuring instrument	EL 2135-02	Alternative not used	N/A

*- Total number of Requirements to be observed / inspected = 00
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 03
Total No of applicable Tests = 02
No. of tests for which the sample passed= 02

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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Tests relating to Thermal Properties **EL 2136– V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
E	ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13)	EL2136-00	Resistance method not used (Refer table 4.5)	N/A

*- Total number of Requirements to be observed / inspected = 00
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 01
Total No of applicable Tests = 00
No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be ~~passing/failing~~ in the requirement tested.
(These tests/requirements are not applicable)

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Tests relating to Electrical Safety **EL 2137 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
F	ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10 and Annex G)	EL2137-00	Satisfactory (See above Cl. 2.10)	P

*- Total number of Requirements to be observed / inspected = 00
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 01
Total No of applicable Tests = 01
No. of tests for which the sample passed= 01

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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Tests relating to Electrical safety **EL 2138 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES	EL 2138-00	Alternate method not used	N/A
G.1	Clearances	EL 2138-01	See above G	N/A
G.1.1	General	EL 2138-02	See above G	N/A
G.1.2	Summary of the procedure for determining minimum clearances	EL 2138-03	See above G	N/A
G.2	Determination of mains transient voltage (V)	EL 2138-04	See above G	N/A
G.2.1	AC Mains supply	EL 2138-05	See above G	N/A
G.2.2	Earthed d.c. mains supplies	EL 2138-06	See above G	N/A
G.2.3	Unearthed d.c. mains supplies	EL 2138-07	See above G	N/A
G.2.4	Battery operation	EL 2138-08	See above G	N/A
G.3	Determination of telecommunication network transient voltage (V)	EL 2138-09	See above G	N/A
G.4	Determination of required withstand voltage (V)	EL 2138-10	See above G	N/A
G.4.1	Mains transients and internal repetitive peaks	EL 2138-11	See above G	N/A
G.4.2	Transients from telecommunication networks:	EL 2138-12	See above G	N/A
G.4.3	Combination of transients	EL 2138-13	See above G	N/A
G.4.4	Transients from cable distribution systems	EL 2138-14	See above G	N/A
G.5	Measurement of transient voltages (V)	EL 2138-15	See above G	N/A
	a) Transients from a mains supply		See above G	N/A
	For an a.c. mains supply		See above G	N/A
	For a d.c. mains supply		See above G	N/A
	b) Transients from a telecommunication network		See above G	N/A
G.6	Determination of minimum clearances	EL 2138-16	See above G	N/A

*- Total number of Requirements to be observed / inspected = 00

Total No of applicable Requirement = 00

No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 17

Total No of applicable Tests = 00

No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be ~~passing/failing~~ in the requirement tested.

(These tests/requirements are not applicable)

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Tests relating to Radiation Safety **EL 2139 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
H	ANNEX H, IONIZING RADIATION (see 4.3.13)	EL 2139-00	Equipment does not produce ionizing radiation	N/A

*- Total number of Requirements to be observed / inspected = 00
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 01
Total No of applicable Tests = 00
No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be ~~passing/failing~~ in the requirement tested.
(These tests/requirements are not applicable)

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Tests relating to Electrical Safety **EL 2140 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
J	ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)*	EL 2140-00	Appliance Inlet is used	N/A
	Metal(s) used :		See above J	N/A

*- Total number of Requirements to be observed / inspected = 01
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 00
Total No of applicable Tests = 00
No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be ~~passing/failing~~ in the requirement tested.
(These tests/requirements are not applicable)

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Tests relating to General Requirement **EL 2141 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
K	ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.8)*	EL 2141-00	No thermal control inside the equipment	N/A
K.1	Making and breaking capacity	EL 2141-01	See above K	N/A
K.2	Thermostat reliability; operating voltage (V) :	EL 2141-02	See above K	N/A
K.3	Thermostat endurance test; operating voltage (V) :	EL 2141-03	See above K	N/A
K.4	Temperature limiter endurance; operating voltage (V) :	EL 2141-04	See above K	N/A
K.5	Thermal cut-out reliability	EL 2141-05	See above K	N/A
K.6	Stability of operation	EL 2141-06	See above K	N/A

*- Total number of Requirements to be observed / inspected = 01
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 06
Total No of applicable Tests = 00
No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be ~~passing/failing~~ in the requirement tested.
(These tests/requirements are not applicable)

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Tests relating to General Requirement **EL 2142 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
L	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)*	EL 2142-00	Satisfactory	P
L.1	Typewriters*	EL 2142-01	No typewriters used	N/A
L.2	Adding machines and cash registers*	EL 2142-02	No adding machines and cash registers used	N/A
L.3	Erasers*	EL 2142-03	No erasers used	N/A
L.4	Pencil sharpeners*	EL 2142-04	No pencil sharpeners used	N/A
L.5	Duplicators and copy machines*	EL 2142-05	No duplicators and copy machines used	N/A
L.6	Motor-operated files*	EL 2142-06	No motor operated files used	N/A
L.7	Other business equipment*	EL 2142-07	Equipment is operated at normal operating instructions	P

*- Total number of Requirements to be observed / inspected = 08
Total No of applicable Requirement = 02
No of Requirements for which the sample passed= 02

Total number of tests to be conducted = 00
Total No of applicable Tests = 00
No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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Tests relating to Electrical Safety **EL 2143 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
M	ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)	EL 2143-00	See below	N/A
M.1	Introduction*	EL 2143-01	No telephone ringing signals	N/A
M.2	Method A	EL 2143-02	See above M.1	N/A
M.3	Method B	EL 2143-03	See above M.1	N/A
M.3.1	Ringing signal	EL 2143-04	See above M.1	N/A
M.3.1.1	Frequency (Hz)	EL 2143-05	See above M.1	N/A
M.3.1.2	Voltage (V)	EL 2143-06	See above M.1	N/A
M.3.1.3	Cadence; time (s), voltage (V)	EL 2143-07	See above M.1	N/A
M.3.1.4	Single fault current (mA)	EL 2143-08	See above M.1	N/A
M.3.2	Tripping device and monitoring voltage	EL 2143-09	See above M.1	N/A
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage	EL 2143-10	See above M.1	N/A
M.3.2.2	Tripping device	EL 2143-11	See above M.1	N/A
M.3.2.3	Monitoring voltage (V)	EL 2143-12	See above M.1	N/A

*- Total number of Requirements to be observed / inspected = 01
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= N/A

Total number of tests to be conducted =12
Total No of applicable Tests = 00
No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be ~~passing/failing~~ in the requirement tested.
(These tests/requirements are not applicable)

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Tests relating to Electrical safety **EL 2144 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
N	ANNEX N, IMPULSE TEST GENERATORS (see 1.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1, 7.3.2, 7.4.3 and Clause G.5)	EL 2144-00	No such equipment	N/A
N.1	ITU-T impulse test generators	EL 2144-01	See above N	N/A
N.2	IEC 60065 impulse test generator	EL 2144-02	See above N	N/A

*- Total number of Requirements to be observed / inspected = 00
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 03
Total No of applicable Tests = 00
No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be ~~passing/failing~~ in the requirement tested.
(These tests/requirements are not applicable)

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(Approving Authority)

Tests relating to General Requirements **EL 2145– V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
P	ANNEX P, NORMATIVE REFERENCES	EL 2145-00	In-Compliance	P

*- Total number of Requirements to be observed / inspected = 00
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 01
Total No of applicable Tests = 01
No. of tests for which the sample passed= 01

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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Tests relating to General Requirements **EL 2146 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
Q	ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)	EL 2146-00	Certified Varistor (MOV1) used (see table 1.5.1)	P
	A VDR shall comply with iec 61051-2, whether a fire enclosure is provided or not, taking into account all of the following:		See above Q	P
	a) Preferred climatic categories Lower category temperature: -10˚C Upper category temperature: +85˚C Duration of damp Test, steady state test: 21 days		See above Q	P
	b) Maximum continuous voltage: Atleast 1,25 times the rated voltage of the equipment or Atleast 1,25 times the upper voltage of the rated voltage range		See above Q	P
	c) Combined pulse :	EL 2146-01	See above Q	P
	d) Body of the VDR shall comply with Needle flame test according to IEC 60695-11-5 with the following test severities: duration of application of the test flame: 10 s after flame time: 5s [This test is not required if VDR complies with V-1 CLASS MATERIAL]	EL 2146-02	See above Q	P

*- Total number of Requirements to be observed / inspected = 00
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 03
Total No of applicable Tests = 03
No. of tests for which the sample passed= 03
Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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(Approving Authority)

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Tests relating to General Requirement **EL 2147– V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES*	EL 2147-00	See below	N/A
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)*	EL 2147-01	No such coated printed board used	N/A
R.2	Reduced clearances (see 2.10.3)*	EL 2147-02	See above Annex R.1	N/A

*- Total number of Requirements to be observed / inspected = 03
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 00
Total No of applicable Tests = 00
No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be p~~assing/failing~~ in the requirement tested.
(These tests/requirements are not applicable)

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(Approving Authority)

Tests relating to General Requirement **EL 2148 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
S	ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)*	EL 2148-00	No such equipment	N/A
S.1	Test equipment*	EL 2148-01	See above S	N/A
S.2	Test procedure*	EL 2148-02	See above S	N/A
S.3	Examples of waveforms during impulse testing*	EL 2148-03	See above S	N/A

*- Total number of Requirements to be observed / inspected = 04
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 00
Total No of applicable Tests = 00
No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be ~~passing/failing~~ in the requirement tested.
(These tests/requirements are not applicable)

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Tests relating to Protection against Ingress of water **EL 2149 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
T	ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)*	EL 2149-00	IP protection class is IPX0	N/A

*- Total number of Requirements to be observed / inspected = 01
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 00
Total No of applicable Tests = 00
No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be ~~passing/failing~~ in the requirement tested.
(These tests/requirements are not applicable)

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Tests relating to Wiring **EL 2150 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
U	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)	EL2150-00	Certified triple insulated wire used (See table 1.5.1)	N/A
U.1	GENERAL	EL2150-01	See above U	N/A
U.2	TYPE TESTS	EL2150-02	See above U	N/A
U.2.1	GENERAL	EL2150-03	See above U	N/A
U.2.2	ELECTRIC STRENGTH	EL2150-04	See above U	N/A
U.2.2.1	SOLID ROUND WINDING WIRE AND STRANDED WINDING WIRES	EL2150-05	See above U	N/A
U.2.2.1.1	WIRES WITH NOMINAL CONDUCTOR DIAMETER UPTO AND INCLUDING 0.100MM	EL2150-06	See above U	N/A
U.2.2.1.2	WIRES WITH NOMINAL CONDUCTOR DIAMETER OVER 0.100MM AND INCLUDING 2.500MM	EL2150-07	See above U	N/A
U.2.2.1.3	WIRES WITH NOMINAL CONDUCTOR DIAMETER OVER 2.500MM	EL2150-08	See above U	N/A
U.2.2.2	SQUARE OR RECTANGULAR WIRES	EL2150-09	See above U	N/A
U.2.3	FLEXIBILITY AND ADHERENCE	EL2150-10	See above U	N/A
U.2.4	HEAT SHOCK	EL2150-11	See above U	N/A
U.2.5	RETENTION OF ELECTRIC STRENGTH AFTER BENDING	EL2150-12	See above U	N/A
U.3	TESTING DURING MANUFACTURING	EL2150-13	See above U	N/A
U.3.1	GENERAL	EL2150-14	See above U	N/A
U.3.2	ROUTINE TESTS	EL2150-15	See above U	N/A
U.3.3	SAMPLING TEST	EL2150-16	See above U	N/A

*- Total number of Requirements to be observed / inspected = 00

Total No of applicable Requirement = 00

No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 17

Total No of applicable Tests = 00

No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be ~~passing/failing~~ in the requirement tested.

(These tests/requirements are not applicable)

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Tests relating to Electrical Safety **EL 2151 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
V	ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1) *	EL 2151-00	See below	P
V.1	Introduction*	EL 2151-01	Satisfactory	P
V.2	TN power distribution systems	EL 2151-02	Single-phase TN power system considered and used for testing.	P
V.3	TT Power Distribution systems	EL 2151-03	No TT Power Distribution systems	N/A
V.4	IT Power Distribution systems	EL 2151-04	No IT Power Distribution systems	N/A

*- Total number of Requirements to be observed / inspected = 02
Total No of applicable Requirement = 02
No of Requirements for which the sample passed= 02

Total number of tests to be conducted = 03
Total No of applicable Tests = 01
No. of tests for which the sample passed= 01

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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(Approving Authority)

Tests relating to Electrical Safety **EL 2152 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
W	ANNEX W, SUMMATION OF TOUCH CURRENTS *	EL 2152-00	No connection to the telecommunication network or cable distribution	N/A
W.1	Touch current from electronic circuits*	EL 2152-01	See above W	N/A
W.1.1	Floating circuits*	EL 2152-02	See above W	N/A
W.1.2	Earthed circuits*	EL 2152-03	See above W	N/A
W.2	Interconnection of several equipments*	EL 2152-04	See above W	N/A
W.2.1	Isolation*	EL 2152-05	See above W	N/A
W.2.2	Common return, isolated from earth*	EL 2152-06	See above W	N/A
W.2.3	Common return, connected to protective earth*	EL 2152-07	See above W	N/A

*- Total number of Requirements to be observed / inspected = 08
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 00
Total No of applicable Tests = 00
No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be ~~passing/failing~~ in the requirement tested.
(These tests/requirements are not applicable)

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Tests relating to Electrical Safety **EL 2153– V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
X	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)*	EL 2153-00	Refer Clause C.1	P
X.1	Determination of maximum input current*	EL 2153-01	Refer table 1.6.2	P
X.2	Overload test procedure*	EL 2153-02	Complies	P

*- Total number of Requirements to be observed / inspected = 03
Total No of applicable Requirement = 03
No of Requirements for which the sample passed= 03

Total number of tests to be conducted = 00
Total No of applicable Tests = 00
No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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Tests relating to Radiation Safety **EL 2154– V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)	EL 2154-00	No ultraviolet light	N/A
Y.1	Test apparatus	EL 2154-01	See above Y	N/A
Y.2	Mounting of test samples	EL 2154-02	See above Y	N/A
Y.3	Carbon-arc light-exposure apparatus	EL 2154-03	See above Y	N/A
Y.4	Xenon-arc light exposure apparatus	EL 2154-04	See above Y	N/A

*- Total number of Requirements to be observed / inspected = 00
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 05
Total No of applicable Tests = 00
No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be ~~passing/failing~~ in the requirement tested.
(These tests/requirements are not applicable)

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Tests relating to Electrical Safety **EL 2155– V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)*	EL 2155-00	Complies with Cl. 2.10.3.2	P

*- Total number of Requirements to be observed / inspected = 01
Total No of applicable Requirement = 01
No of Requirements for which the sample passed= 01

Total number of tests to be conducted = 00
Total No of applicable Tests = 00
No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be passing in the requirement tested.

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Tests relating to Mechanical Properties **EL 2156 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)	EL 2156-00	No such construction	N/A

*- Total number of Requirements to be observed / inspected = 00
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 01
Total No of applicable Tests = 00
No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be p~~assing/failing~~ in the requirement tested.
(These tests/requirements are not applicable)

.....
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Tests relating to Electrical Safety **EL 2158 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
CC	Evaluation of integrated circuit (IC) current limiters*	EL 2158-00	Integrated circuit current limiters is not used	N/A
CC.1	Integrated circuit (IC) current limiters*	EL 2158-01	See above CC	N/A
CC.2	Test program 1	EL 2158-02	See above CC	N/A
CC.3	Test program 2	EL 2158-03	See above CC	N/A
CC.4	Test program 3	EL 2158-04	See above CC	N/A
CC.5	Compliance	EL 2158-05	See above CC	N/A

*- Total number of Requirements to be observed / inspected = 02
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 04
Total No of applicable Tests = 00
No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be ~~passing/failing~~ in the requirement tested.
(These tests/requirements are not applicable)

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Tests relating to Mechanical Properties **EL 2159 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
DD	Requirements for the mounting means of rack-mounted equipment*	EL 2159-00	No rack-mounted equipment	N/A
DD.1	General		See above DD	N/A
DD.2	Mechanical strength test, variable N.....:	EL 2159-01	See above DD	N/A
DD.3	Mechanical strength test, 250N, including end stops.....:	EL 2159-02	See above DD	N/A
DD.4	Compliance*.....:	EL 2159-03	See above DD	N/A

*- Total number of Requirements to be observed / inspected = 02
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 02
Total No of applicable Tests = 00
No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be ~~passing/failing~~ in the requirement tested.
(These tests/requirements are not applicable)

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Tests relating to Mechanical Properties **EL 2160 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
EE	ANNEX EE, Household and home/office document/media shredders	EL 2160-00	The equipment is not a household and home/office document/media shredders.	N/A
EE.1	General		See above EE	N/A
EE.2	Markings and instructions*	EL 2160-01	See above EE	N/A
	Use of markings or symbols*.....:		See above EE	N/A
	Information of user instructions, maintenance and/or servicing instructions*.....:		See above EE	N/A
EE.3	Inadvertent reactivation test.....:	EL 2160-02	See above EE	N/A
EE.4	Disconnection of power to hazardous moving parts*	EL 2160-03	See above EE	N/A
	Use of markings or symbols*.....:		See above EE	N/A
EE.5	Protection against hazardous moving parts		See above EE	N/A
	Test with test finger (Figure 2A) .....:	EL 2160-04	See above EE	N/A
	Test with wedge probe (Figure EE1 and EE2) .....:	EL 2160-05	See above EE	N/A

*- Total number of Requirements to be observed / inspected = 02
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 04
Total No of applicable Tests = 00
No. of tests for which the sample passed= N/A

Certificate: It is certified that the above tests were performed and found to be ~~passing/failing~~ in the requirement tested.
(These tests/requirements are not applicable)

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1.5.1	TABLE: List of components				P
Object/part no.	Manufacturer/ trademark	Type/model	Technical data	Standard	Mark(s) of conformity [1.]
Power Plug	Taiwan Line Tek In China Everfull Electronic (Huizhou) Co. Ltd.,.	PE361L	6A,250Vac	IS 1293 : 2019	BIS CM/L no.: 4013635
Alternate	Dongguan Yung Li Co., Ltd.	YP-80	16A, 250V~	IS 1293:2019	BIS CM/L no.: 4100036565
Alternate	U.K.B. Electronics Pvt. Ltd (Unit-1)	3 Pin Plug	AC 250V,6A	IS 1293:2019	BIS CM/L no.: 8746803
Power Cord	Taiwan Line Tek In China Everfull Electronic (Huizhou) Co. Ltd.,	YY	3C x 0.75sqmm, 1100V	IS 694 : 2010	BIS CM/L no.: 4013534
Alternate	ASAP Technology (Jiangxi) Co. Limited	PVC Insulated	3 X 1.0mm2, 1100V	IS 694:2010	BIS CM/L no.: 4036849
Alternate	Longwell Company Song Gang Factory	PVC Insulated	3 X 0.75mm2, 1100V	IS 694:2010	BIS CM/L no.: 4009846
Alternate	Longwell Company Song Gang Factory	PVC Insulated	3 X 1.0mm2, 1100V	IS 694:2010	BIS CM/L no.: 4009846
Alternate	I-Sheng Electronics (KunShan) Co.Ltd	PVC Insulated	3 X 0.75mm2, 1100V	IS 694:2010	BIS CM/L no.: 4035746
Alternate	Dongguan Yung Li Co. Ltd	PVC Insulated	3 X 0.75mm2, 1100V	IS 694:2010	BIS CM/L no.: 4041337

Alternate	U.K.B. ELECTRONICS PVT LTD, (UNIT-II)	PVC Insulated	3 X 0.75mm2, 1100V	IS 694:2010	BIS CM/L no.: 3043841
Connector	Taiwan Line Tek Electronic Co., Ltd.	LS-15	2.5A, 250V~	IEC/EN 60320-1	VDE 40028757
Alternate	Longwell Company	LS-60	10A, 250V~	IEC/EN 60320-1	VDE 40029578
Alternate	Longwell Company	LS-60L	10A, 250V~	IEC/EN 60320-1	VDE 40029815
Alternate	Longwell Company	LS-13	10A, 250V~	IEC/EN 60320-1	VDE 40013742
Alternate	Longwell Company	LS-13L	10A, 250V~	IEC/EN 60320-1	VDE 40013739
Alternate	Volex (Asia) Pte. Ltd.	V1625A	10A.250V~	IEC/EN 60320-1	CB by VDE Ref. No. DE1-60443
Alternate	I-Sheng Electric Wire & Cable Co., Ltd.	IS-14	10A, 250V~	IEC/EN 60320-1	VDE 40037879
Alternate	Yung Li Co. Ltd.	YC-12	10A, 250V~	IEC/EN 60320-1	VDE 40029577
Alternate	Kenic Electric Mfg. Co. Ltd.	KE-26	10A, 250V~	IEC/EN 60320-1	VDE 40002259
Appliance inlet (CN1)	LECI Electronics Co., Ltd	DB-6	2.5A, 250Vac	IEC/EN 60320-1 UL 498 (Harmonized with IEC 60320-1)	VDE 40032465 UL E302229
Alternate	Tecx-Unions Technology Corp	TU-333	2.5A, 250Vac	IEC/EN 60320-1 UL498 (Harmonized with IEC 60320-1)	ENEC-04682 UL E220004

Alternate	Zhe Jiang BeiErjia	ST-A04 Series	2.5A, 250Vac	IEC/EN 60320-1 UL 498 (Harmonized with IEC 60320-1)	VDE 40016045 UL E225980
Alternate	Rong Feng IndustrialCo., Ltd.	RF-190	2.5A, 250Vac	IEC/EN 60320-1 UL 498 (Harmonized with IEC 60320-1)	VDE 40030379 UL E102641
Alternate	Rich Bay Co Ltd	R-30790	2.5A, 250Vac	IEC/EN 60320-1 UL 498 (Harmonized with IEC 60320-1)	VDE 40030381 UL E184638
Alternate	Sun Fair Electric Wire & Cable (HK) Co. Ltd.	S-02	2.5A, 250Vac	IEC/EN 60320-1 UL 498 (Harmonized with IEC 60320-1)	VDE 40034448
Alternate	Rich Bay Co Ltd	R-301SN	250 Vac,10A	IEC/EN 60320-1	VDE 40030228
Alternate	Zhejiang LECI Electronics	DB-14	250 Vac; 10A	IEC/EN 60320-1	VDE 40032137
Alternate	TecxUnions Technology Corp	TU-301-S, TU-301-SP	250 Vac; 10A	IEC/EN 60320-1	ENEC-04684
Alternate	Rong Feng Industrial Co., Ltd.	SS-120	250 Vac; 10A	IEC/EN 60320-1	VDE 40028101
Alternate	Zhe Jiang Bei Er jia	ST-A01 Series	250 Vac; 10A	IEC/EN 60320-1	VDE 40013388
Alternate	Sun Fair Electric Wire & Cable (HK) Co. Ltd.	S-03	250 Vac,10A	IEC/EN 60320-1	VDE 40034447
Plastic Enclosure	SABIC Innovative Plastics B V	SE100	Min. V-1, min. thickness 2.0 mm,95°C	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E45329
Alternate	SABIC Innovative Plastics B V	HF500R	Min. V-0, min. thickness 1.5 mm,130 °C	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E45329
Alternate	SABIC Innovative Plastics B V	CX7211	Min. V-0, min. thickness 1.5 mm,85°C	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E45329

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Alternate	SABIC Innovative Plastics B V	C2950	Min. V-0, min. thickness 2.0 mm,85 °C	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E45329
Alternate	SABIC Innovative Plastics B V	945(GG)	Min. V-0, min. thickness 2.0 mm,120 °C	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E45329
Alternate	SABIC JAPAN L L C	C2950	PC/ABS, Min. V-0, Min. thickness: 2.0mm, 85°C	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E207780
Alternate	SABIC JAPAN L L C	CX7211	PC/ABS, Min. V-0, Min. thickness: 2.0mm, 90°C	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E207780
Alternate	SABIC JAPAN L L C	945	PC, Min. V-0, Min. thickness: 2.0mm, 120°C	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E207780
Alternate	TEIJIN LIMITED RESIN AND PLASTIC	LN-1250G	Min. V-0 at 1,5 mm thickness, 115°C	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E50075
Alternate	CHI MEI CORPORATION	PA-765A(+)	Min.V-1.Min.thickness:2.0 mm, 85 °C	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E56070
Alternate	CHI MEI CORPORATION	PC-540	Min.V-0.Min.thickness:2.0 mm, 70 °C	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E56070
Alternate	Covestro Deutschland AG [PC Resins]	6485 + (z)(f1)	Min.V-0.Min.thickness:2.0 mm, 70 °C	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E41613
Fuse (F1, F2) (F2 is optional)	Conquer Electronics Co., Ltd.	MST series	T3.15A, 250VAC	IEC 60127-1 IEC 60127-4 UL 248-1 UL 248-14 (Harmonized with IEC 60127-1)	VDE 40017118 UL E82636
Alternate	Suzhou Walter Electronic Co. Ltd	ICP	T3.15A, 250VAC	UL 248-1 UL 248-14 (Harmonized with IEC 60127-1)	UL E56092

Alternate	Zhongshan Lanbao Electrical Appliances	RTI-10	T3.15A, 250VAC	IEC 60127-1 IEC 60127-4 UL 248-1 UL 248-14 (Harmonized with	VDE 40017009 UL E213695
Alternate	Bel Fuse Ltd.	RST-Serie(s)	T3.15A, 250VAC	IEC 60127-1 IEC 60127-4 UL 248-1 UL 248-14 (Harmonized with IEC 60127-1)	VDE 40011144 UL E20624
Alternate	Cooper Bussmann LLC	SS-5	T3.15A, 250VAC	IEC 60127-1 IEC 60127-4 UL 248-1 UL 248-14 (Harmonized with IEC 60127-1)	VDE 40015513 UL E19180
Alternate	Dongguan Better	932	T3.15A, 250VAC	IEC 60127-1 IEC 60127-4 UL 248-1 UL 248-14 (Harmonized with IEC 60127-1)	VDE 40033369 UL E300003
Alternate	Hollyland	5ET	T3.15A, 250VAC	IEC 60127-1 IEC 60127-4 UL 248-1 UL 248-14 (Harmonized with IEC 60127-1)	VDE 40015669 UL E156471
Alternate	Shenzhen Lanson Electronics	SMT	T3.15A, 250VAC	IEC 60127-1 IEC 60127-4	VDE 40012592
Alternate	Conquer Electronics Co., Ltd.	MET	T3.15A, 250VAC	IEC 60127-1 IEC 60127-4	VDE 40017157
X-Capacitor (CX1) (Optional)	Cheng Tung Industrial Co., Ltd.	CTX	Max 0.47µF, Min.250V,100°C X1 or X2	IEC/EN 60384-14	ENEC-02671
Alternate	Tenta Electric Industrial Co. Ltd.	MEX	Max 0.47µF, Min.250V,100°C X1 or X2	UL 60384-14 (Harmonized with IEC 60384-14) IEC 60384-14	UL E222911 VDE 119119
Alternate	Joey	MPX	Max 0.47µF, Min.250V,100°C X1 or X2	IEC 60384-14 UL 60384-14 (Harmonized with IEC 60384-14)	VDE 40032481 UL E216807

Alternate	Ultra Tech Xiphi Enterprise Co. Ltd.	HQX	Max 0.47µF, Min.250V,100°C X1 or X2	IEC/EN 60384-14 UL 60384-14 (Harmonized with IEC 60384-14)	ENEC-04401 UL E183780
Alternate	YUON YU ELECTRONICS CO LTD	MPX	Max 0.47µF, Min.250V,100°C X1 or X2	IEC 60384-14	VDE 40032392
Alternate	Sinhua Electronics (Shanghai) Co. Ltd.	MPX	Max 0.47µF, Min.250V,100°C X1 or X2	IEC 60384-14	VDE 40014686
Alternate	Jiangsu Xinghua Huayu Electronics Co., Ltd.	MPX	Max 0.47µF, Min.250V,100°C X1 or X2	IEC 60384-14	VDE 40022417
Alternate	Dain Electronics Co., Ltd.	MEX, MPX, NPX	Max 0.47µF, Min.250V,100°C X1 or X2	UL 60384-14 (Harmonized with IEC 60384-14) IEC 60384-14	UL E147776 VDE 40018798
Alternate	Shenzhen Jinghao Capacitor Co., Ltd.	CBB62B	Max 0.47µF, Min.250V,100°C X1 or X2	IEC 60384-14	VDE 40018690
Alternate	Shantou High New Technology Dev. Zone Songtian Enterprise Co., Ltd.	MPX	Max 0.47µF, Min.250V,110°C X2	UL 60384-14 (Harmonized with IEC 60384-14) IEC 60384-14	UL E208107 VDE 40034679
Capacitor (CY1,CY2) (Optional)	Success Electronics Co., Ltd.	SE	Min. 250Vac; max. 3300pF; min. Y1	UL 60384-14 (Harmonized with IEC 60384-14) IEC 60384-14	UL E114280 VDE 40037211
Alternate	TDK-EPC Corporation	CD	Min. 250Vac; max. 3300pF; min. Y1	UL 60384-14 (Harmonized with IEC 60384-14) IEC 60384-14	UL E37861 VDE 40017931
Alternate	Success Electronics Co., Ltd.	SB	Min. 250Vac; max. 3300pF; min. Y1	UL 60384-14 (Harmonized with IEC 60384-14) IEC 60384-14	UL E114280 VDE 40037211
Alternate	Walsin Technology Corp.	AH	Min. 250Vac; max. 3300pF; min. Y1	UL 60384-14 (Harmonized with IEC 60384-14) IEC 60384-14	UL E146544 VDE 40001804
Alternate	Haohua Electronic Co.	CT 7	Min. 250Vac; max. 3300pF; min. Y1	UL 60384-14 (Harmonized with IEC 60384-14) IEC 60384-14	UL E233106 VDE 40003902

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Alternate	JYH CHUNG ELECTRONICS CO LTD	JD	Min. 250Vac; max. 3300pF; min. Y1	IEC 60384-14	VDE 137027
Alternate	Murata Mfg Co Ltd	KX Series	Min. 250Vac; max. 3300pF; min. Y1	UL 60384-14 (Harmonized with IEC 60384-14) IEC 60384-14	UL E37921 VDE 40002831
Alternate	JYANAY CO LTD	JN	Min. 250Vac; max. 3300pF; min. Y1	IEC 60384-14	TUV (R 50232059) cURus E201384
Alternate	WELSON INDUSTRIAL CO LT D	WD	Y1, AC250V, max 3300pF, 30/125/56/C	IEC 60384-14	VDE 40016157
Alternate	Shantou High New Technology Dev. Zone Songtian Enterprise Co., Ltd.	CD-Series	Y1, AC250V, max. 3300pF, 25/125/21/C	UL 60384-14 (Harmonized with IEC 60384-14) IEC 60384-14	UL E208107 VDE 40025754
Internal Wire	Suzhou Jiahuishu Electronic Co Ltd	1061	22AWG,80˚C	UL 758 (Equivalent to applicable requirement of IEC 60065)	UL E353532
Transformer (T1)	GlobTek(Suzhou)/ HAOPUWEI	TF093	Class-B	IS 13252 (Part 1): 2010 + A1: 2013+A2:2015 / IEC 60950-1: 2005 + 1: 2009+A2:2013	Tasted With appliance
Magnet Wire	NINGBO JINTIAN NEW MATERIAL CO LTD	2UEW	130˚C	UL 1446 (Equivalent to applicable requirement of IEC 60950-1)	UL E227047
Bobbin	CHANG CHUN PLASTICS CO LTD	T375J	V-0, 150˚C thickness=1.74 mm	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E59481
Alternate	CHANG CHUN PLASTICS CO LTD	T375HF	V-0, 150°C, thickness 0.45 mm min.	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E59481
Alternate	SUMITOMO BAKELITE CO LTD	PM-9820, PM-9823	V-0, 150°C, thickness 0.45 mm min.	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E41429
Alternate	CHANG CHUN PLASTICS CO LTD	4130	V-0, 140°C, thickness 0.74 mm min.	UL 94 (Flammability test equivalent to	UL E59481
Alternate	Resonac Techno Service Corporation	CP-J-8800	V-0, 150°C, thickness 0.45 mm min.	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E514814

Triple insulated wire	GREAT LEOFLON INDUSTRIAL CO LTD	TRWB	155°C	UL 2353 (Equivalent to applicable requirement of IEC 60950-1)	UL E211989
Alternate	HOI LUEN ELECTRICAL MFR CO LTD	THL-F-xx, THL-F-SB-xx	Class B, reinforced insulation	UL 2353 (Equivalent to applicable requirement of IEC 60950-1)	UL E257525
Insulation Tape	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	CT	130°C	UL 510A (No equivalent to IEC standard)	UL E165111
Alternate	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1(b) 1350T-1 44	Min.130°C	UL 510A (No equivalent to IEC standard)	UL E17385
Alternate	BONDTEC PACIFIC CO LTD	370S(b)	Min.130°C	UL 510A (No equivalent to IEC standard)	UL E175868
Alternate	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ*(b) CT*(c)(g) CT(b)(g)	Min.130°C	UL 510A (No equivalent to IEC standard)	UL E165111
Alternate	JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A(b)	Min.130°C	UL 510A (No equivalent to IEC standard)	UL E246950
Alternate	CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX(a)(b)	Min.130°C	UL 510A (No equivalent to IEC standard)	UL E246820
Varnish	SUZHOU TAIHU ELECTRIC ADVANCED MATERIAL CO LTD	T-4260(a)	130°C	UL 1446 (Equivalent to applicable requirement of IEC 60950-1)	UL E228349
TUBE	SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD	WF	200˚C	UL 224 (Equivalent to applicable requirement of IEC 60950-1)	UL E203950
Alternate	Great Holding Industrial Co Ltd	TFT, TFS	Min. 300V, 200˚C	UL 224 (Equivalent to applicable requirement of IEC 60950-1)	UL E156256
Alternate	Changyuan Electronics (Shenzhen) Co Ltd	CB-TT-T, CB TT-S	Min. 300V, 200˚C	UL 224 (Equivalent to applicable requirement of IEC 60950-1)	UL E180908

Line Choke (LF1)	SUZHOU HEJIA ELECTRONIC CO.,LTD	GTM91099-LF1	130°C	IS 13252 (Part 1): 2010 + A1: 2013+A2:2015 / IEC 60950-1: 2005 + 1: 2009+A2:2013	Tested within appliance
Magnet WIRE	NINGBO JINTIAN NEW MATERIAL CO LTD	UEW	155°C	UL 1446 (Equivalent to applicable requirement of IEC 60950-1)	UL E227047
Line Choke (LF2)	HAOPUWEI	NF00031	130°C	IS 13252 (Part 1): 2010 + A1: 2013+A2:2015 / IEC 60950-1: 2005 + 1: 2009+A2:2013	Tested within appliance
Magnet WIRE	NINGBO JINTIAN NEW MATERIAL CO LTD	2UEW	130°C	UL 1446 (Equivalent to applicable requirement of IEC 60950-1)	UL E227047
Alternate	WUXI JUFENG COMPOUND LINE CO LTD	2UEWB	130°C	UL 1446 (Equivalent to applicable requirement of IEC 60950-1)	UL E206882
Photo Coupler (U4)	Everlight Electronics Co., Ltd.	EL817	Dti=0.5mm Int. dcr=6.0mm EXT.dcr=7.7mm,thermal cycling test,110oC	IEC 60747-5-5	VDE 132249
Alternate	COSMO Electronics Corporation	K1010 / KP1010	Dti=0.6mm Int.dcr=4.0mm, Ext.dcr=5.0mm,thermal cycling test,115oC	IEC 60747-5-5	VDE 101347
Alternate	Lite-On Technology Corporation	LTV-817	Dti=0.8mm EXT.dcr=7.8mm,thermal cycling test,100oC	IEC 60747-5-5	VDE 40015248
Alternate	Fairchild Semiconductor Pte Ltd	H11A817B / FOD817B	Insulation voltage: 850V; Transient overvoltage: 6000V; CTI175; Int. Cr/ Ext. Cr: ≥7,0/ 7,0 mm; 30/110/21	IEC 60747-5-5	VDE 40026857
Alternate	Sharp Corporation Electronic Components and Devices Group	PC817	Insulation voltage: 890V; Transient overvoltage: 9000V Int. Cr/ Ext. Cr: 7,62/ 7,62 mm; 30/100/21	IEC 60747-5-5	VDE 40008087

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Alternate	Bright Led Electronics Corp.	BPC-817 A/B/C/D/L BPC-817 M BPC-817 S	Dti=0.4mm EXT.dcr=7.0mm,thermal cycling test,100oC	IEC 60747-5-5	VDE 40007240
PCB	SHUANG MING INDUSTRY CO LTD	T005V0	V-0, 130°C (thickness=1.28mm)	UL 796, UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E78017
Alternate	SHUANG MING INDUSTRY CO LTD	T015V0, T016V0	V-0, 130°C (Min. Thickness 1.6mm)	UL 796, UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E78017
Alternate	SHANGHAI H FAST ELECTRONICS CO LTD	211001	V-0, 130°C (Min. Thickness 1.6mm)	UL 796, UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E337862
Alternate	GUANGDE BOYA XINXING ELECTRONIC TECHNOLOGY CO LTD	BY-1	V-0, 130°C (Min. Thickness 1.6mm	UL 796, UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E475783
Alternate	JIANGXI ZHONG XIN HUA ELECTRONICS INDUSTRY CO LTD	ZXH-1 ZXH-2	V-0, 130°C (Min. Thickness 1.6mm	UL 796, UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E331298
Alternate	SHENZHEN JIA LI CHUANG TECHNOLOGY DEVELOPMENT CO LTD	JLC-1 JLC-2	V-0, 130°C (Min. Thickness 1.6mm	UL 796, UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E479892
Varistor (MOV1) (optional)	Xiamen Set Electronics Co., Ltd.	TFV8S471K	300Vac, coating, Min. V-0, min. 105 °C, 6KV/3KA, pulse test passed	IEC 61051-2	TUV RH J50554061
Alternate	Thinking Electronic Industrial Co., Ltd.	TVR14471K	Max. Continuous voltage: min 300Vac(rms), 85°C The coating is V-0	IEC 61051-2	VDE 005944
Alternate	Thinking Electronic Industrial Co., Ltd.	TVR10471K	Max. Continuous voltage: min 300Vac(rms), 85°C The coating is V-0	IEC 61051-2	VDE 005944
Alternate	Success Electronics Co., Ltd.	SVR10D471K SVR14D471K	300Vac, coating, Min. V-0, min. 85 °C, 6KV/3KA, pulse test passed	IEC 61051-2	VDE 40030401

Alternate	Joyin Co., Ltd.	JVR10N471K JVR14N471K	300Vac, coating, Min. V-0, min. 85 °C, 6KV/3KA, pulse test passed	IEC 61051-2	VDE 005937
Alternate	Thinking Electronic Industrial Co., Ltd.	TVR10621 TVR14621	385Vac, coating, Min. V-0, min. 105 °C, 6KV/3KA, pulse test passed	IEC 61051-2	VDE 005944
Alternate	Shantou High-New Technology Dev. Zone Songtian Enterprise Co., Ltd.	10D621K 14D621K	385Vac, coating, Min. V-0, min. 125 °C, 6KV/3KA, pulse test passed	IEC 61051-2	VDE 40023049
Alternate	Xiamen Set Electronics Co., Ltd.	TFV10S471K	300Vac, coating, Min. V-0, min. 105 °C, 6KV/3KA, pulse test passed	IEC 61051-2	TUV RH J50554061
Alternate	Brightking	14D471K 10D471K	Max. Continuous voltage: min 300Vac(rms), 85°C The coating is V-0	IEC 61051-2	VDE 40027827
Alternate	Joyin Co., Ltd.	JVR10N471K JVR14N471K	300V rms; 385V d.c., 3kA, 8/20µs	IEC 61051-2	VDE 005937

Supplementary information:

1. Evidence have been evaluated and checked for the agreed level of compliance as per the referred standard.

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1.5.2 / 4.3.6	Table: Plug Dimensions					N/A
Type of Plug: ☐ Two pin ☐ Three pin						
Reference points	Ratings					
	☐ 2.5A		☐ 6A		☐ 16A	
	Limits	Measured	Limits	Measured	Limits	Measured
A	--	--	22.05-22.35	--	28.45-28.75	--
B	19.10 ± 0.15	--	19.1 ± 0.15	--	25.4 ± 0.15	--
C	--	--	7.06 +0.025 -0.050	--	8.71 +0.025 -0.050	--
D	5.08 +0.025 -0.050	--	5.08 +0.025 -0.050	--	7.06 +0.025 -0.050	--
E	15.9 +1.04 -0.13	--	15.9 +1.04 -0.13	--	20.6 +1.04 -0.13	--
F	--	--	20.6 +1.04 -0.13	--	28.6 +1.04 -0.13	--
G	7.94 (min.)	--	7.94 (min.)	--	9.52 (min.)	--
Supplementary information: Above dimensional limits are as per IS 1293:2019 in mm (EUT is not a direct plug in equipment)						

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1.6.2	TABLE: Electrical data (in normal conditions)					P
U (V) (AC)	I (A)	I rated (A)	P (W)	Fuse #	I fuse (A)	Condition/status
90	0.54	--	30.0	F1,F2	0.54	Maximum Normal load at 50 Hz (for Output: 5.0Vdc, 4.6A)
100	0.53	1.5	29.6	F1,F2	0.53	
240	0.21	1.5	29.0	F1,F2	0.21	
254.4	0.20	--	28.9	F1,F2	0.20	
90	0.99	--	48.1	F1,F2	0.99	Maximum Normal load at 50 Hz (for Output: 9.0Vdc, 4.4A)
100	0.92	1.5	47.9	F1,F2	0.92	
240	0.33	1.5	46.8	F1,F2	0.33	
254.4	0.31	--	46.7	F1,F2	0.31	
90	1.31	--	63.1	F1,F2	1.31	Maximum Normal load at 50 Hz (for Output: 15.0Vdc, 3.6A)
100	1.22	1.5	62.5	F1,F2	1.22	
240	0.43	1.5	61.8	F1,F2	0.43	
254.4	0.41	--	61.9	F1,F2	0.41	
90	1.43	--	104.1	F1,F2	1.43	Maximum Normal load at 50 Hz (for Output: 20.0Vdc, 3.0A)
100	1.32	1.5	101.8	F1,F2	1.32	
240	0.48	1.5	95.5	F1,F2	0.48	
254.4	0.45	--	93.0	F1,F2	0.45	
90	0.25	--	20.7	F1,F2	0.25	Maximum Normal load at 50 Hz (for PPS Output: 3.6Vdc, 3.6A)
100	0.35	1.5	22.7	F1,F2	0.35	
240	0.17	1.5	22.9	F1,F2	0.17	
254.4	0.17	--	22.3	F1,F2	0.17	
90	0.88	--	42.9	F1,F2	0.88	Maximum Normal load at 50 Hz (for PPS Output: 11.0Vdc, 3.6A)
100	0.80	1.5	42.8	F1,F2	0.80	
240	0.32	1.5	42.6	F1,F2	0.32	
254.4	0.29	--	42.7	F1,F2	0.29	
90	0.89	--	41.5	F1,F2	0.89	Maximum Normal load at 50 Hz (for PPS Output: 11.1Vdc, 3.15A)
100	0.76	1.5	41.2	F1,F2	0.76	
240	0.30	1.5	41.2	F1,F2	0.30	
254.4	0.28	--	41.3	F1,F2	0.28	

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1.6.2	TABLE: Electrical data (in normal conditions)					P
90	1.12	--	56.0	F1,F2	1.12	Maximum Normal load at 50 Hz (for PPS Output: 16.0Vdc, 3.15A)
100	1.03	1.5	55.8	F1,F2	1.03	
240	0.39	1.5	55.6	F1,F2	0.39	
254.4	0.37	--	55.7	F1,F2	0.37	
90	1.02	--	51.0	F1,F2	1.02	Maximum Normal load at 50 Hz (for PPS Output: 16.1Vdc, 2.7A)
100	0.95	1.5	51.3	F1,F2	0.95	
240	0.38	1.5	51.3	F1,F2	0.38	
254.4	0.35	--	51.6	F1,F2	0.35	
90	1.27	--	63.9	F1,F2	1.27	Maximum Normal load at 50 Hz (for PPS Output: 20.0Vdc, 2.7A)
100	1.16	1.5	63.5	F1,F2	1.16	
240	0.45	1.5	64.0	F1,F2	0.45	
254.4	0.44	--	64.2	F1,F2	0.44	
Supplementary information:						

2.1.1.5	TABLE: Energy hazard measurement				P
Voltage (rated) (V)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)	
5.0	4.6	5.04	4.92	24.796	
9.0	4.4	9.02	4.74	42.754	
15.0	3.6	15.03	3.91	58.767	
20.0	3.0	20.05	3.47	69.573	
PPS 3.6	3.6	3.69	3.94	14.538	
PPS 11	3.6	11.02	3.80	41.876	
PPS 11.1	3.15	11.12	3.24	36.028	
PPS 16	3.15	16.04	3.21	51.488	
PPS 16.1	2.7	16.13	2.96	47.744	
PPS 20	2.7	20.04	2.93	58.717	
Supplementary information:					

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2.1.1.7	TABLE: Discharge test			P
Condition	τ calculated (s)	τ measured (s)	t u→ 0V (s)	Comments
Line to neutral (Fuse IN)	--	0.31	--	Uoc=340Vpeak, 37% of Uoc=125.8Vpeak, Measured voltage after 1 second = 12V
Supplementary information:				

2.2.2	TABLE: SELV measurement (under normal conditions)			P
Transformer	Location	Voltage (max.) (V)		Voltage Limitation Component
		V peak	V d.c.	
--	Electrolytic Capacitor (C15)	--	5.06	--
--	Electrolytic Capacitor (C16)	--	5.08	--
Supplementary information:				

2.2.3	TABLE: SELV measurement (under fault conditions)	P
Location	Voltage (max.) (V)	Comments
Electrolytic Capacitor (C15) (S-C)	0	EUT Shutdown immediately
Electrolytic Capacitor (C16) (S-C)	0	EUT Shutdown immediately
Supplementary information: "S-C=Short-Circuit"		

2.4.2	TABLE: Limited current circuit measurement					P
Location	Voltage (V)	Current (mA)	Freq. (kHz)	Limit (mA)	Comments	
Bridging Y Capacitor (CY1,CY2)	0.058	0.029	0.05	0.7	Measured current value not exceeding the limit value	
Supplementary information:						

2.5	TABLE: Limited power source measurement		P
	Limits	Measured	Verdict
According to Table 2B/~~2C~~ (normal condition)(At Output)(Uoc= 5.04Vdc)			
current (in A)	≤8	4.92	P
apparent power (in VA)	≤100	24.796	P
According to Table 2B/~~2C~~ (single fault condition : At Output) (Short-circuit) Uoc=0Vdc			
current (in A)	≤8	0	P
apparent power (in VA)	≤100	0	P
According to Table 2B/~~2C~~ (normal condition)(At Output)(Uoc= 9.02Vdc)			
current (in A)	≤8	4.74	P
apparent power (in VA)	≤100	42.754	P

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According to Table 2B/~~2C~~ (single fault condition : At Output) (Short-circuit) Uoc=0Vdc			
current (in A)	≤8	0	P
apparent power (in VA)	≤100	0	P
According to Table 2B/~~2C~~ (normal condition)(At At Output) (Uoc= 15.03Vdc)			
current (in A)	≤8	3.91	P
apparent power (in VA)	≤100	58.767	P
According to Table 2B/~~2C~~ (single fault condition : At Output)(Short-circuit) Uoc=0Vdc			
current (in A)	≤8	0	P
apparent power (in VA)	≤100	0	P
According to Table 2B/~~2C~~ (normal condition)(At At Output)(Uoc= 20.05Vdc)			
current (in A)	≤8	3.47	P
apparent power (in VA)	≤100	69.573	P
According to Table 2B/~~2C~~ (single fault condition : At Output)(Short-circuit) Uoc=0Vdc			
current (in A)	≤8	0	P
apparent power (in VA)	≤100	0	P
According to Table 2B/~~2C~~ (normal condition)(At At PPS Output)(Uoc= 3.69Vdc)			
current (in A)	≤8	3.94	P
apparent power (in VA)	≤100	14.538	P
According to Table 2B/~~2C~~ (single fault condition : At PPS Output)(Short-circuit) Uoc=0Vdc			
current (in A)	≤8	0	P
apparent power (in VA)	≤100	0	P
According to Table 2B/~~2C~~ (normal condition)(At At PPS Output)(Uoc= 11.02Vdc)			
current (in A)	≤8	3.80	P
apparent power (in VA)	≤100	41.876	P
According to Table 2B/~~2C~~ (single fault condition : At PPS Output)(Short-circuit) Uoc=0Vdc			
current (in A)	≤8	0	P
apparent power (in VA)	≤100	0	P
According to Table 2B/~~2C~~ (normal condition)(At At PPS Output)(Uoc= 11.12Vdc)			
current (in A)	≤8	3.24	P
apparent power (in VA)	≤100	36.028	P
According to Table 2B/~~2C~~ (single fault condition : At PPS Output)(Short-circuit) Uoc=0Vdc			
current (in A)	≤8	0	P
apparent power (in VA)	≤100	0	P

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According to Table 2B/~~2C~~ (normal condition)(At At PPS Output)(Uoc= 16.04Vdc)			
current (in A)	≤8	3.21	P
apparent power (in VA)	≤100	51.488	P
According to Table 2B/~~2C~~ (single fault condition : At PPS Output)(Short-circuit) Uoc=0Vdc			
current (in A)	≤8	0	P
apparent power (in VA)	≤100	0	P
According to Table 2B/~~2C~~ (normal condition)(At At PPS Output)(Uoc= 16.13Vdc)			
current (in A)	≤8	2.96	P
apparent power (in VA)	≤100	47.744	P
According to Table 2B/~~2C~~ (single fault condition : At PPS Output)(Short-circuit) Uoc=0Vdc			
current (in A)	≤8	0	P
apparent power (in VA)	≤100	0	P
According to Table 2B/~~2C~~ (normal condition)(At At PPS Output)(Uoc= 20.04Vdc)			
current (in A)	≤8	2.93	P
apparent power (in VA)	≤100	58.717	P
According to Table 2B/~~2C~~ (single fault condition : At PPS Output)(Short-circuit) Uoc=0Vdc			
current (in A)	≤8	0	P
apparent power (in VA)	≤100	0	P
Supplementary information:			

2.6.3.4	TABLE: Resistance of earthing measurement	N/A
Location	Resistance measured (mΩ)	Comments
--	--	--
Supplementary information: No such Earthing used		

<OR>

2.6.3.4	TABLE: Resistance of earthing measurement	N/A
Location	Voltage drop (V)	Comments
--	--	--
Supplementary information: Tasted at 40A		

2.10.2	Table: Working voltage measurement			P
Location	RMS voltage (V)	Peak voltage (V)	Comments	
Transformer (T1)				
pin 3 – pin A	126	187	--	
pin 3 – pin B	175	298	--	
pin 2 – pin A	114	169	--	
pin 2 – pin B	164	287	--	
pin 1 – pin A	137	201	--	
pin 1 – pin B	155	271	--	
pin 12 – pin A	141	214	--	
Pin12 – pin B	168	291	--	
pin 10 – pin A	119	177	--	
pin 10 – pin B	156	277	--	
Line to neutral	240	340	Max. V_{rms} and V_{peak}	
Supplementary information:				

2.10.3 and 2.10.4	TABLE: Clearance and creepage distance measurements					P
Clearance (cl) and creepage distance (cr) at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)
Functional:						
Line-Neutral	340	240	1.5	11.21	2.5	11.21
Basic / supplementary:						
--	--	--	--	--	--	--
Reinforced:						
Transformer (T1) primary to secondary pin	340	240	4.0	19.76	5.0	19.76
Y1-capacitor (CY1)	340	240	4.0	7.57	5.0	7.57
Supplementary information:						

2.10.5	TABLE: Distance through insulation measurements				P
Distance through insulation (DTI) at/of:	U peak (V)	U r.m.s. (V)	Test voltage (V)	Required DTI (mm)	DTI (mm)
Basic:					
--	--	--	--	--	--
Supplementary:					
--	--	--	--	--	--
Reinforced:					
Enclosure	340	240	3000	0.4	2.55
Supplementary information:					

4.3.8	TABLE: Batteries	N/A
The tests of 4.3.8 are applicable only when appropriate battery data is not available	No such battery used	N/A
Is it possible to install the battery in a reverse polarity position?	No such battery used	N/A

	Non-rechargeable batteries			Rechargeable batteries					
	Discharging		Un-intentional charging	Charging		Discharging		Reversed charging	
	Meas. Current	Manuf. Specs.		Meas. Current	Manuf. Specs.	Meas. Current	Manuf. Specs.	Meas. Current	Manuf. Specs.
Max. Current during normal condition	--	--	--	--	--	--	--	--	--
Max. Current during fault condition	--	--	--	--	--	--	--	--	--

Test results:		Verdict
- Chemical leaks	No such battery used	N/A
- Explosion of the battery	No such battery used	N/A
- Emission of flame or expulsion of molten metal	No such battery used	N/A
- Electric strength tests of equipment after completion of tests	No such battery used	N/A

Supplementary information: No such battery used

4.5	TABLE: Temperature rise measurements	P

Temperatures were measured according cl. 1.4.5. Test in condition A and B at continuous normal operation as for power input measurements of table 1.6.2 resulted in highest temperature values.
Temperatures are calculated according cl. 1.4.12.3 with regard to the maximum ambient operation temperature of 40°C(T_{ma}), as specified by the manufacturer.

Test voltage(s) (V):		A: V= 90V~, 50Hz	B: V= 254.4V~, 50Hz
t_{amb1} (°C):	A: 25.3	t_{amb2} (°C):	B: 24.7

Temperature of part/at: (measured with thermocouples)	Measured temperature rise at T_{amb}		Calculated temperature at T_{ma}		Allowed T_{max} (°C)
	A dT (K)	B dT (K)	A T (°C)	B T (°C)	
PCB Near Y-Capacitor (CY1)	21.8	20.7	61.8	60.7	130
Plastic Enclosure	14.6	13.9	54.6	53.9	95
Transformer core (T1)	32.5	31.1	72.5	71.1	110
Line Choke (LF1)	15.7	15.1	55.7	55.1	120
Line Choke (LF2)	18.3	17.2	58.3	57.2	120

Supplementary information:

Temperatures measured with winding resistance method: Not used

temperature T of winding: (winding resistance method)	(V)	R_1 (Ω)	R_2 (Ω)	T (°C)	allowed T_{max} (°C)	insulation class
--	--	--	--	--	--	--

Supplementary information:

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4.5.5	TABLE: Ball pressure test of thermoplastic parts		N/A
	Allowed impression diameter (mm) .....:	≤2 mm	

Part	Test temperature (°C)	Impression diameter (mm)
--	--	--

Supplementary information: certified appliance inlet and material used

4.6.1, 4.6.2	Table: Enclosure opening measurements	N/A

Location	Size (mm)	Comments
--	--	--

Supplementary information: No openings provided

4.7	Table: Resistance to fire				P

Part	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence
--	--	--	--	--	--

Supplementary information: Certified material used (See table 1.5.1)

5.1.6	TABLE: Touch current and protective conductor current measurement		P
	Test voltage (V).....:	AC 254.4V, 50 Hz	—

Measurement location (Terminal A connected to...)	Polarity (normal) [mA]		Polarity (reverse) [mA]		Limit (mA)	Comments
	Switch: ON	Switch: OFF	Switch: ON	Switch: OFF		
Between live terminal to enclosure wrapped with metal foil	0.012	--	0.015	--	0.25	The Measured value is within the specified limit

Supplementary information:

5.2	TABLE: Electric strength tests, impulse tests and voltage surge tests		P

Test voltage applied between:	Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No
Electric strength test			
Functional:			
Between Line to neutral (Fuse open)	AC	1500V	No
Basic / supplementary:			
--	--	--	--
Reinforced:			
Primary to secondary circuit of Transformer (T1)	AC	3000V	No
L/N to external plastic enclosure wrapped with metal foil	AC	3000V	No
Supplementary information:			

5.3	TABLE: Fault condition tests		P
	Ambient temperature (°C) .....:	25.3	—
	Power source for EUT: Manufacturer, model/type, output rating .....:	LABs AC Power Source	—

Component No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (A)	Observation
Transformer (T1)	Overload	254.4	1 hour 45 minutes	--	--	EUT operated normally Temperature of transformer coil is 69.7°C No fire or hazards occurred
Transformer (T1) (Secondary pins A & B)	Short-circuit	90	2 Minutes	--	--	EUT Shutdown immediately No fire or hazards occurred
SMD Capacitor (C36)	Short-circuit	240	5 Minutes	--	--	EUT Shutdown immediately No fire or hazards occurred
Diode (ZD3)	Short-circuit	100	2 Minutes	--	--	EUT Shutdown immediately No fire or hazards occurred
Supplementary information:						

C.2	TABLE: Insulation of transformers		P
	Transformer part name ..... :	Transformer (T1)	
	Manufacturer ..... :	See table 1.5.1	
	Type..... :	See table 1.5.1	

Clearance (cl) and creepage distance (cr) at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)
Primary /input winding and secondary/output winding (internal)	340	240	4.0	*	5.0	*
Primary/input winding and core (internal)			4.0	*	5.0	*
Secondary/output winding and core (internal)			4.0	*	5.0	*
Primary/input part and secondary/output part (external)			4.0	19.76	5.0	19.76
Primary/input part and core (external)			4.0	*	5.0	*
Primary/input part and secondary/output winding (external)			4.0	*	5.0	*
Secondary/output part and core (external)			4.0	*	5.0	*
Secondary/output part and primary/input winding (external)			4.0	19.76	5.0	19.76

Description of design:	
(a) Bobbin	
Primary/input pins..... :	3, 2,1,12,10
Secondary/output pins ..... :	A,B
Material (manufacturer, type, ratings) ..... :	See Table 1.5.1
Thickness (mm)..... :	1.74mm
(b) General	
Please insert here a description of the transformer design describing: Concentric windings on bobbin/Core. Windings ends additionally fixed with tape, outer winding is secondary. Teflon tube on all winding exits is provided. Core is considered as primary.	
Supplementary information: *Certified Triple insulated wire used (See table 1.5.1)	

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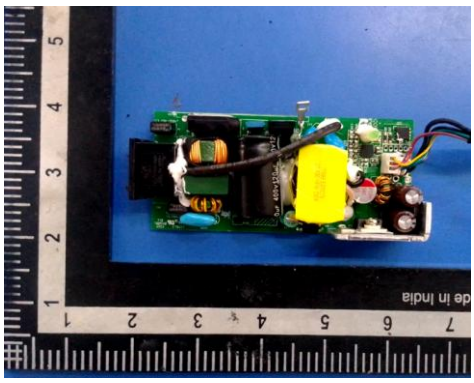
Attachment-1

PHOTOGRAPHS

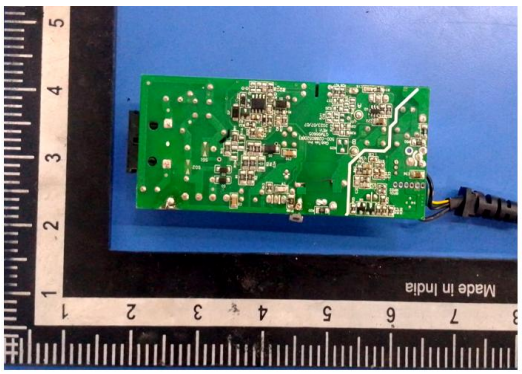
External View 1

External View 2

Internal View



PCB View-1



PCB View-2

End of Test Report

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