Test report number: 2006013
Dated: 14/07/2020

ULR- TC557420000000204F

SUMMARY OF TEST REPORT

(Number of pages in test report: page no. 01 to 116)
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: ITE Power Supply** (Power Adaptors for IT Equipment)
3. **Model:** GT-96300-3648-T3-PP (Representative model)
   GT-96300-3648-T3-AP (Series model), GT-96300-3648-T3-SP (Series model),
   GT-96300-3654-T3-AP (Series model), GT-96300-3654-T3-PP (Series model),
   GT-96300-3654-T3-SP (Series model), GT-96300-3656-T3-AP (Series model),
   GT-96300-3656-T3-PP (Series model), GT-96300-3656-T3-SP (Series model)
4. **Model differences provided (if applicable):** Yes
5. **Model differences verified as per MEITY Guidelines for series formulation:** Yes
6. **Test Results:**

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	General	3.1	P
2	Connection to a mains supply	3.2	P
3	Wiring terminals for connection of external conductors	3.3	N/A
4	Disconnection from the mains supply	3.4	P
5	Interconnection of equipment	3.5	P
6	Stability	4.1	N/A

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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.

Abbreviations: P=Pass N/A=Not applicable

CONCLUSION:

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

Yes ☒ No ☐

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)

ULR- TC557420000000204F

Test Report No.: 2006013	Page 1 of 116
	Issue Date: 14/07/2020

Manufacturer:	**GLOBTEK (SUZHOU) CO., LTD** NO.76 JINLING EAST ROAD, SUZHOU INDISTRIAL PARK, CHINA	
Test item:	**ITE Power Supply** (Power Adaptors for IT Equipment)	
Identification:	**GT-96300-3648-T3-PP** (Representative model) GT-96300-3648-T3-AP (Series model), GT-96300-3648-T3-SP (Series model), GT-96300-3654-T3-AP (Series model), GT-96300-3654-T3-PP (Series model), GT-96300-3654-T3-SP (Series model), GT-96300-3656-T3-AP (Series model), GT-96300-3656-T3-PP (Series model), GT-96300-3656-T3-SP (Series model)	Serial No.: 000112102/20 (Representative model)
Receipt No.:	2006013	Date of receipt: 10/06/2020
Testing laboratory and its address:	**Nemko India (Test Lab) Pvt. Ltd.** Plot No. 2, Second Floor, DLF Industrial Estate-1, Sector 37 (Near NHPC Metro Station), Faridabad- 121003, Haryana	
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 / ~~failed~~ the test specification(s).	
Other Aspects: Product meets the requirements of IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1: 2009 + A2 : 2013		
This test report relates to the test sample submitted.		

Tested by:	**Approved by / Authorized Signatory:**	**Issued by:**
(Jitender Narayan Joshi / Testing Engineer)	**(Rakesh G. Thengane/ Technical Manager)**	**(Nitesh Kumar / Lab Manager)**
Dated: 14/07/2020	**Dated: 14/07/2020**	**Dated: 14/07/2020**

NEMKO INDIA (TEST LAB) PRIVATE LIMITED

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. ..... :	**2006013**
Date of issue ..... :	14/07/2020
Total number of pages..... :	116
Testing Laboratory ..... :	**Nemko India (Test Lab) Pvt. Ltd.**
Address ..... :	Plot No. 2, Second Floor, DLF Industrial Estate-1, Sector 37 (Near NHPC Metro Station), Faridabad- 121003, Haryana
Manufacturer's name ..... :	**GLOBTEK (SUZHOU) CO., LTD**
Address ..... :	NO.76 JINLING EAST ROAD, SUZHOU INDISTRIAL PARK, CHINA
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 ..... :	**ITE Power Supply** (Power Adaptors for IT Equipment)
TradeMark..... :	GlobTek, Inc.
Model/Type reference..... :	**GT-96300-3648-T3-PP** (Representative model) GT-96300-3648-T3-AP (Series model), GT-96300-3648-T3-SP (Series model), GT-96300-3654-T3-AP (Series model), GT-96300-3654-T3-PP (Series model), GT-96300-3654-T3-SP (Series model), GT-96300-3656-T3-AP (Series model), GT-96300-3656-T3-PP (Series model), GT-96300-3656-T3-SP (Series model)
Ratings ..... :	Input: 100-240V~, 50/60Hz, 1.0A Output: 48V ⎓ 0.75A, 36W (for series models, see the copy of marking plate)
Other Documents submitted..... :	Please refer to Table – List of Attachments at Page No. 10

Tested by:	Approved by / Authorized Signatory:	Issued by:
(Jitender Narayan Joshi / Testing Engineer)	(Rakesh G. Thengane/ Technical Manager)	(Nitesh Kumar / Lab Manager)
Dated: 14/07/2020	Dated: 14/07/2020	Dated: 14/07/2020

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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	04/06	04/06	13-14
EL 2101	General Requirements	Power interface (Cl.1.6)	05	01/03	01/03	15
EL 2102	Marking Requirements	Marking & instructions (Cl.1.7)	39	03/15	03/15	16-18
EL 2103	Electrical safety	Protection from electric shock and energy hazards (Cl.2.1)	14	04/02	04/02	19-20
EL 2104	Electrical safety	SELV Circuits (Cl.2.2)	04	02/02	02/02	21
EL 2105	Electrical safety	TNV Circuits (Cl.2.3)	12	00/00	N/A	22
EL 2106	Electrical safety	Limited current circuits (Cl.2.4)	04	01/03	01/03	23
EL 2107	Electrical safety	Limited Power sources (Cl.2.5)	07	03/01	03/01	24
EL 2108	Electrical safety	Provisions for earthing and bonding (Cl.2.6)	19	01/02	01/02	25-26
EL 2109	Electrical safety	Overcurrent and earth fault protection in primary circuits (Cl.2.7)	07	03/02	03/02	27
EL 2110	Electrical safety	Safety Interlocks (Cl.2.8)	13	00/00	N/A	28
EL 2111	Electrical safety	Electrical Insulation (Cl.2.9)	05	01/04	01/04	29
EL 2112	Electrical safety	Clearances, Creepage distances and distances through insulation (Cl.2.10)	63	26/06	26/06	30-33
EL 2113	Wiring	Wiring, connections and supply (Cl.3)	11	03/06	03/06	34
EL 2114	Wiring	Connection to a main supply (Cl.3.2)	14	01/03	01/03	35-36
EL 2115	Wiring	Wiring terminals for connection of external conductors (Cl.3.3)	09	00/00	N/A	37
EL 2116	Wiring	Disconnection for the main supply (Cl.3.4)	12	01/04	01/04	38
EL 2117	Wiring	Interconnection of equipment (Cl.3.5)	05	01/03	01/03	39
EL 2118	Mechanical properties	Stability (Cl.4.0), 4.1	05	00/00	N/A	40

EL 2119	Mechanical properties	Mechanical strength (Cl.4.2)	13	07/00	07/(N/A)	41
EL 2120	Mechanical properties	Design and construction (Cl.4.3)	25	03/02	03/02	42-43
EL 2121	Mechanical properties	Protection against hazardous moving parts (Cl.4.4)	14	00/00	N/A	44
EL 2122	Thermal Properties	Thermal requirements (Cl.4.5)	06	03/03	03/03	45
EL 2123	Mechanical properties	Openings in Enclosures (Cl.4.6)	18	00/00	N/A	46-47
EL 2124	Fire Safety	Resistance to fire (Cl.4.7)	25	03/06	03/06	48-52
EL 2125	Insulating properties	Electrical requirements and simulated abnormal conditions(Cl.5),5.1	20	06/02	06/02	53-54
EL 2126	Insulating properties	Electric Strength (Cl.5.2)	03	01/02	01/02	55
EL 2127	Insulating properties	Abnormal operating and fault conditions (Cl.5.3)	11	07/00	07/(N/A)	56
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	00/00	N/A	57-58
EL 2129	Communicating connection	Protection of equipment users from overvoltages on telecommunication networks (Cl.6.2)	06	00/00	N/A	59
EL 2130	Communicating connection	Protection of the telecommunication wiring system from overheating (Cl.6.3)	05	00/00	N/A	60-61
EL 2131	Connection to cable distribution systems	Connection to cable distribution systems (Cl.7)	08	00/00	N/A	62
EL 2132	Fire safety	Tests for resistance to heat and fire (Annex A)	20	08/00	08/(N/A)	63-64
EL 2133	Insulating properties	Motor tests under abnormal conditions (Annex B)	19	00/00	N/A	65-66
EL 2134	Electrical Safety	Transformers (Annex C)	03	02/01	02/01	67

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EL 2135	Insulating properties	Measuring Instruments For Touch-Current Tests (Annex D)	03	02/00	02/(N/A)	68
EL 2136	Thermal Properties	Temperature Rise Of A Winding(Annex E)	01	00/00	N/A	69
EL 2137	Electrical safety	Measurement Of Clearances And Creepage Distances(Annex F)	01	01/00	01/(N/A)	70
EL 2138	Electrical safety	Alternative Method For Determining Minimum Clearances(Annex G)	17	00/00	N/A	71-72
EL 2139	Radiation Safety	Ionizing Radiation(Annex H)	01	00/00	N/A	73
EL 2140	Electrical Safety	Table of electrochemical potentials (Annex J)	01	00/00	N/A	74
EL 2141	General Requirements	Thermal controls (Annex K)	07	00/00	N/A	75
EL 2142	General Requirements	Normal load conditions for some types of electrical business equipment (Annex L)	08	00/02	(N/A) /02	76
EL 2143	Electrical Safety	Criteria for telephone ringing signals (Annex M)	13	00/00	N/A	77
EL 2144	Electrical safety	Impulse Test Generators(Annex N)	03	00/00	N/A	78
EL 2145	General Requirements	Normative References(Annex P)	01	00/01	(N/A) /01	79
EL 2146	General Requirements	Voltage dependent resistors (VDRs) (Annex Q)	03	03/00	03/(N/A)	80-81
EL 2147	General Requirements	Examples Of Requirements For Quality Control Programmes(Annex R)	03	00/00	N/A	82
EL 2148	General Requirements	Procedure For Impulse Testing (Annex S)	04	00/00	N/A	83
EL 2149	Protection against Ingress of water	Guidance On Protection Against Ingress Of Water (Annex T)	01	00/00	N/A	84
EL 2150	Wiring	Insulated Winding Wires For Use Without Interleaved Insulation (Annex U)	17	17/00	17/(N/A)	85-86
EL 2151	Electrical Safety	Ac Power Distribution Systems(Annex V)	05	01/02	01/02	87

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EL 2152	Electrical Safety	Summation Of Touch Currents (Annex W)	08	00/00	N/A	88
EL 2153	Electrical Safety	Maximum Heating Effect In Transformer Tests(Annex X)	03	00/03	(N/A)/03	89
EL 2154	Radiation safety	Ultraviolet light conditioning test (Annex Y)	05	00/00	N/A	90
EL 2155	Electrical Safety	Overvoltage Categories (Annex Z)	01	00/01	(N/A)/ 01	91
EL 2156	Mechanical properties	Mandrel Test(Annex AA)	01	00/00	N/A	92
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	00/00	N/A	93
EL 2159	Mechanical properties	Requirements For The Mounting Means Of Rack-Mounted Equipment (Annex DD)	04	00/00	N/A	94
EL 2160	Electrical Safety	Household And Home/Office Document/Media Shredders (Annex EE)	06	00/00	N/A	95

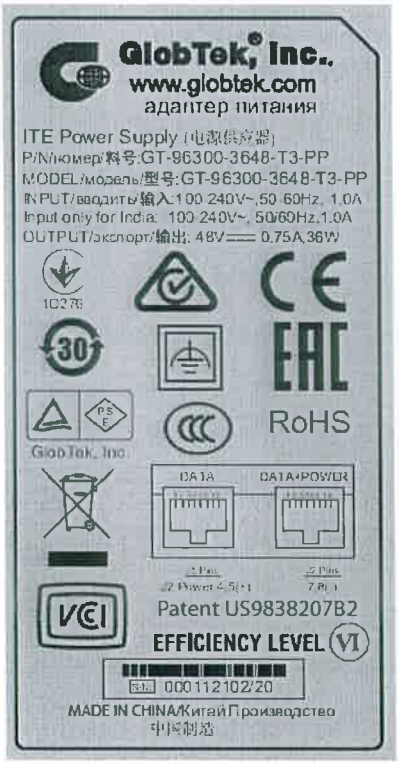
Certificate: It is certified that the above tests were performed and found to be Passing/~~Failing~~ in the requirement tested.

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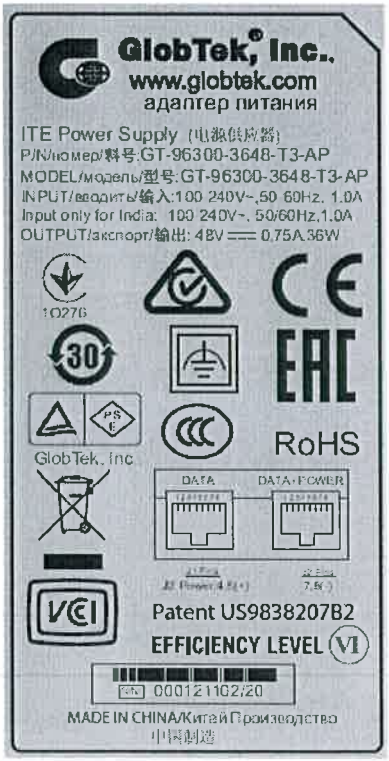
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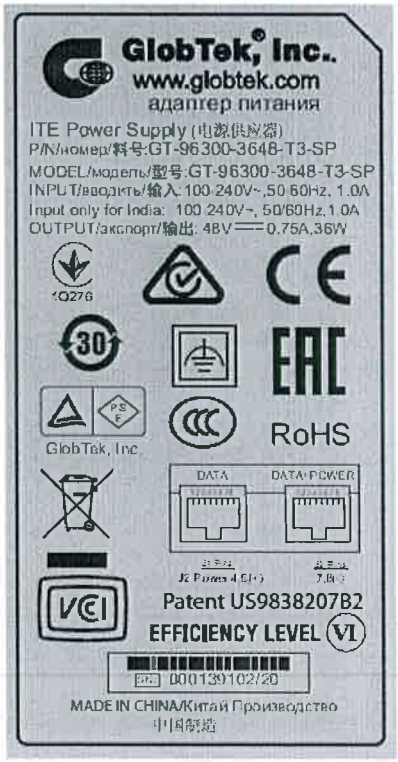
(Approving Authority)

Copy of Marking Plate: Representative Model

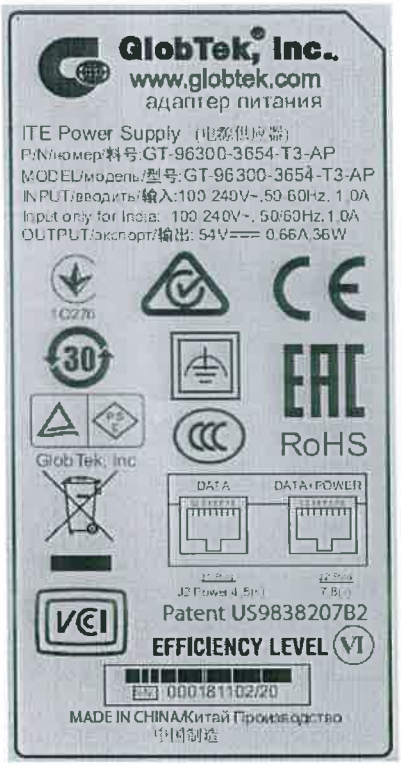


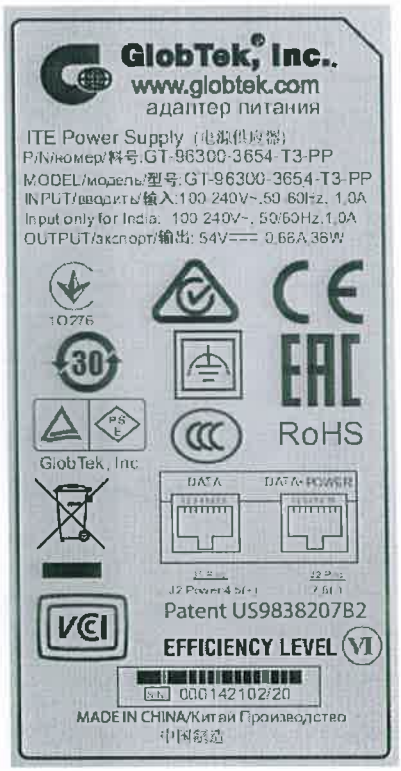
Copy of Marking Plate: Series Model

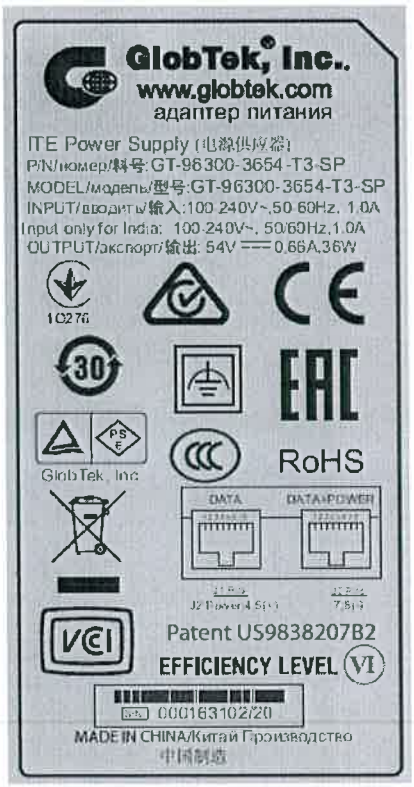




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Table – List of Attachments

Attachment No.	Attachment Description	No. of pages in Attachment
Attachment – 1	Photo Documents	02 (Page no: 115-116)

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
- test object does meet the requirement ..... : P (Pass)
- test object does not meet the requirement..... : F (Fail)

Testing.....: As below

Date of receipt of test item ..... : 10/06/2020

Date(s) of performance of tests ..... : 10/06/2020 to 14/07/2020

Laboratory conditions.....: As below

Ambient Temperature..... : 25±10°C

Ambient Humidity ..... : 40 to 75 % RH

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Test item particulars	:	**ITE Power Supply** (Power Adaptors for IT Equipment)
Equipment mobility	:	☒ movable ☐ hand-held ☐ transportable ☐ stationary ☐ for building-in ☐ direct plug-in
Connection to the mains	:	☒ pluggable equipment [X] 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	:	-10%, +6%
Class of equipment	:	☐ Class I ☒ Class II (with Functional Earth) ☐ 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)	:	upto 2000m
Altitude of test laboratory (m)	:	< 1000m
Mass of equipment (kg)	:	0.160 kg

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:

Application details / Description of the product:
The equipment under test is **ITE Power Supply** (Power Adaptors for IT Equipment) model number: **GT-96300-3648-T3-PP** (Representative model)

Power over Ethernet Midspan Injectors offers reliable solution for remote powering of specialized non-standard Ethernet Powered Devices requiring up to 36 Watts over existing network infrastructure.

It has Pluggable type A means of connection to the mains supply.

Electrical Rating of EUT:

Input: 100-240V~, 50/60Hz, 1.0A

Output: 48V ⎓ 0.75A, 36W

(for series models, see the copy of marking plate)

Max. specified ambient temperature (°C)..... : 40°C

2) Differences between the models: See Below

Model no.	Trademark	Similarities	Differences
GT-96300-3648-T3-PP (Representative model) GT-96300-3648-T3-AP (Series model), GT-96300-3648-T3-SP (Series model), GT-96300-3654-T3-AP (Series model), GT-96300-3654-T3-PP (Series model), GT-96300-3654-T3-SP (Series model), GT-96300-3656-T3-AP (Series model), GT-96300-3656-T3-PP (Series model), GT-96300-3656-T3-SP (Series model)	GlobTek, Inc.	- Same rated input voltage - Same class of construction - Same mains PCB design layout and transformer	- Model number - Output Voltage & Output current

Model No. tested with-in the family series: All the tests in this report are conducted on model: **GT-96300-3648-T3-PP** (Representative model) as a worst case declared by manufacturer

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 appended table 1.5.1)	P
1.5.1	General:	EL 2100-01	See below subclauses	P
	Components shall be complying with IEC 60950-1 or relevant component standard.		(see appended table 1.5.1)	P
	Components and subassemblies approved for IEC 62368-1 can be considered as complying with this standard		No such component and subassemblies used	N/A
1.5.2	Evaluation and testing of components	EL 2100-02	Certified components are used in accordance with their ratings, certifications and they comply with applicable parts of the standard. Components which are not Certified are used in accordance with their ratings and they comply with applicable parts of IEC 60950-1 and applicable component standard. Components, for which no relevant IEC-standard exists, have been tested under the conditions occurring in the equipment, using applicable parts of IS 13252(part 1): 2010 +A1:2013+ A2:2015	P
1.5.3	Thermal controls	EL 2100-03	No thermal controls used	N/A
1.5.4	Transformers	EL 2100-04	Transformer used are suitable for their intended application and comply with the relevant requirements of the standard and particularly Annex C	P
1.5.5	Interconnecting cables*	EL 2100-05	Interconnecting cables complies with the relevant requirement of the standard	P
1.5.6	Capacitors bridging insulation *	EL 2100-06	Safety certified X & Y capacitor used in the equipment that complies with IEC 60384-14 (see appended table 1.5.1)	P
1.5.7	Resistors bridging insulation	EL 2100-07	See below cl no. 1.5.7.1 to cl no. 1.5.7.3	N/A
1.5.7.1	Resistors bridging functional, basic or supplementary insulation*	EL 2100-08	No such Bridging Insulation	N/A

Tests relating to General Requirements **EL 2100 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	EL 2100-09	No Such Bridging Insulation	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 equipment	N/A
1.5.8	Components in equipment for IT power distribution systems*	EL 2100-11	Not evaluated for IT power system	N/A
1.5.9	Surge suppressors	EL 2100-12	See below cl. no. 1.5.9.1 to cl. no. 1.5.9.5	P
1.5.9.1	General*	EL 2100-13	Certified Varistor (MOV1) used (See appended table 1.5.1)	P
1.5.9.2	Protection of VDRs*	EL 2100-14	The varistor is located after fuse and protected by fuse.	P
1.5.9.3	Bridging of functional insulation by a VDR*	EL 2100-15	Complies	P
1.5.9.4	Bridging of basic insulation by a VDR*	EL 2100-16	Varistor(s) are not used for bridging basic insulation	N/A
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR*	EL 2100-17	Varistor(s) are not used for bridging supplementary, double or reinforced insulation.	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 =08
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/ ~~failing~~ in the requirement tested.

.....
(Approving Authority)

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 cl no. 1.6.1 to cl no. 1.6.4	P
1.6.1	AC power distribution systems*	EL 2101-01	Evaluated for TN power distribution systems	P
1.6.2	Input current	EL 2101-02	The steady state input current of the equipment did not exceed the RATED CURRENT by more than 10% under NORMAL LOAD (See appended table 1.6.2)	P
1.6.3	Voltage limit of hand-held equipment*	EL 2101-03	The equipment is not hand-held	N/A
1.6.4	Neutral conductor *	EL 2101-04	Neutral conductor is insulated from the earth and 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/ ~~failing~~ in the requirement tested.

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(Approving Authority)

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	See below cl no. 1.7.1 to cl no. 1.7.14	P
1.7.1	Power rating and identification markings		The power rating marking is provided and is readily visible in operator access area	P
1.7.1.1	Power rating marking*	EL 2102-01	See below subclauses	P
	Rated voltage(s) or voltage ranges(s) (V)*.	EL 2102-02	100-240V~	P
	Multiple mains supply connections*.	EL 2102-03	Only one mains supply connection	N/A
	Symbol for nature of supply, for d.c. only*:	EL 2102-04	No dc supply	N/A
	Rated frequency or rated frequency range (Hz) *:	EL 2102-05	50/60Hz	P
	Rated current (mA or A) *:	EL 2102-06	1.0A	P
1.7.1.2	Identification markings*	EL 2102-07	See below subclauses	P
	Manufacturer's name or trade-mark or identification mark *:	EL 2102-08	Trademark: GlobTek, Inc.	P
	Model identification or type reference *:	EL 2102-09	**GT-96300-3648-T3-PP** (Representative model) (for series models, please see the copy of marking plate)	P
	Symbol for Class II equipment only*:	EL 2102-10	Class II equipment with Functional Earth	P
	Other markings and symbols*:	EL 2102-11	An additional marking does not give rise to misunderstanding`	P
1.7.1.3	Use of graphical symbols*	EL 2102-12	Graphical symbols placed on the equipment are in accordance with IEC 60417 and explained in the user manual.	P
1.7.2	Safety instructions and marking*	EL 2102-13	See below cl. no. 1.7.2.1 to cl. no. 1.7.2.6	P
1.7.2.1	General	EL 2102-14	Operating/ Safety instructions made available to the user	P
1.7.2.2	Disconnect devices*	EL 2102-15	Appliance inlet used as disconnect device	N/A
1.7.2.3	Overcurrent protective devices*	EL 2102-16	Pluggable type A equipment	N/A
1.7.2.4	IT power distribution systems*	EL 2102-17	Not evaluatated for IT power distribution system	N/A
1.7.2.5	Operator access with a tool*	EL 2102-18	No tools are required	N/A
1.7.2.6	Ozone*	EL 2102-19	The equipment does not produce ozone	N/A

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

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
1.7.3	Short duty cycles*	EL 2102-20	The equipment is intended for continous operation	N/A
1.7.4	Supply voltage adjustment*	EL 2102-21	No supply voltage adjustment	N/A
1.7.5	Power outlets on the equipment*	EL 2102-22	No standard power outlets are provided	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	Fuse (F1) is clearly and adequately marked on PCB F1: T3.15A, 250Vac	P
1.7.7	Wiring terminals	EL 2102-24	Refer below cl no. 1.7.7.1 to cl no. 1.7.7.3	N/A
1.7.7.1	Protective earthing and bonding terminals*	EL 2102-25	No Protective earthing conductor	N/A
1.7.7.2	Terminals for a.c. mains supply conductors*	EL 2102-26	No terminals for a.c. mains supply conductors	N/A
1.7.7.3	Terminals for d.c. mains supply conductors*	EL 2102-27	Supplied only through AC supply.	N/A
1.7.8	Controls and indicators	EL 2102-28	See below cl. 1.7.8.1 to cl. no. 1.7.8.4	P
1.7.8.1	Identification, location and marking *:	EL 2102-29	The function of controls affecting safety is obvious without knowledge of language	P
1.7.8.2	Colors*	EL 2102-30	Colors used for functional indication only. No safety involved	P
1.7.8.3	Symbols according to IEC 60417*:	EL 2102-31	No such symbol Marked	N/A
1.7.8.4	Markings using figures* :	EL 2102-32	No such markings and figures 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 thermostats or other regulating devices is adjustable	N/A
1.7.11	Durability	EL 2102-35	Marking is durable and legible after the test and show no curling	P
1.7.12	Removable parts*	EL 2102-36	No removable parts in the EUT	N/A
1.7.13	Replaceable batteries*	EL 2102-37	No battery used	N/A
	Language(s)		See above cl. no. 1.7.13	N/A
1.7.14	Equipment for restricted access locations*	EL 2102-38	Equipment not intended for installation in restricted access locations	N/A

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*- 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 = 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/~~failing~~ in the requirement tested.

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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 cl. no. 2.1.1 to cl. no. 2.1.3	P
2.1.1	Protection in operator access areas*	EL 2103-01	See below subclauses	P
2.1.1.1	Access to energized parts	EL 2103-02	Adequate protection provided against Operator contact to bare hazardous parts	P
	Test by inspection:		Operator cannot contact any hazardous parts	P
	Test with test finger (Figure 2A)		Test finger was unable to contact bare hazardous parts	P
	Test with test pin (Figure 2B):		Test Pin was unable to contact bare hazardous parts	P
	Test with test probe (Figure 2C)		No TNV circuit present	N/A
2.1.1.2	Battery compartments *	EL 2103-03	No battery compartments	N/A
2.1.1.3	Access to ELV wiring	EL 2103-04	No internal wiring at ELV accessible to the operator	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 access to hazardous voltage circuit wiring	N/A
2.1.1.5	Energy hazards :	EL 2103-06	(see appended table 2.1.1.5)	P
2.1.1.6	Manual controls	EL 2103-07	No such controls	N/A
2.1.1.7	Discharge of capacitors in equipment		See Below subclause	P
	Measured voltage (V); time-constant (s):	EL 2103-08	(see appended table 2.1.1.7)	P
2.1.1.8	Energy hazards – d.c. mains supply		No d.c. mains supply.	N/A
	a) Capacitor connected to the d.c. mains supply:	EL 2103-09	See above cl. no. 2.1.1.8	N/A
	b) Internal battery connected to the d.c. mains supply:	EL 2103-10	See above cl. no. 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 audio amplifiers in the EUT	N/A
2.1.2	Protection in service access areas	EL 2103-12	Checked by inspection unintentional contact is unlikely during service operations.	P
2.1.3	Protection in restricted access locations	EL 2103-13	Not intended to be installed in a restricted access location	N/A

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*- 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 = 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/~~failing~~ in the requirement tested.

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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	See below cl. no. 2.2.2 to cl. no. 2.2.4	P
2.2.2	Voltages under normal conditions	EL 2104-01	SELV within limit under normal conditions (See appended table 2.2.2)	P
2.2.3	Voltages under fault conditions	EL 2104-02	SELV within limit under fault conditions (See appended table 2.2.3)	P
2.2.4	Connection of SELV circuits to other circuits* :	EL 2104-03	SELV circuits are only connected to SELV circuits	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/~~failing~~ in the requirement tested.

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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 in the EUT	N/A
2.3.1	Type of TNV circuits: TNV-1 / TNV-2 / TNV-3	EL 2105-01	See above cl.no.2.3	N/A
	a) Limits of TNV-1:	EL 2105-02	See above cl.no.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	See above cl.no.2.3	N/A
2.3.2	Separation from other circuits and from accessible parts*	EL 2105-04	See above cl.no.2.3	N/A
2.3.2.1	General Requirements	EL 2105-05	See above cl.no.2.3	N/A
2.3.2.2	Protection by basic insulation	EL 2105-06	See above cl.no.2.3	N/A
2.3.2.3	Protection by earthing	EL 2105-07	See above cl.no.2.3	N/A
2.3.2.4	Protection by other constructions:	EL 2105-08	See above cl.no.2.3	N/A
2.3.3	Separation from hazardous voltages	EL 2105-09	See above cl.no.2.3	N/A
2.3.4	Connection of TNV circuits to other circuits	EL 2105-10	See above cl.no.2.3	N/A
2.3.5	Test for operating voltages generated externally	EL 2105-11	See above cl.no.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.

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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 cl. no. 2.4.1 to cl. no. 2.4.3	P
2.4.1	General requirements *	EL 2106-01	(see appended table 2.4.2)	P
2.4.2	Limit values	EL 2106-02	(see appended table 2.4.2)	P
2.4.3	Connection of limited current circuits to other circuits*	EL 2106-03	SELV–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/~~failing~~ in the requirement tested.

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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 subclauses	P
	a) Inherently limited output	EL 2107-01	RJ45 Data port is for data transmission only.	P
	b) Impedance limited output	EL 2107-02	No 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	Regulating network limited output used (see appended table 2.5)	P
	d) Overcurrent protective device limited output	EL 2107-04	No overcurrent protective device	N/A
	Max. output voltage (V), Max. output current (A), Max. apparent power (VA)	EL 2107-05	(See appended table 2.5)	P
	Current rating of overcurrent protective device (A)	EL 2107-06	See above cl. no. 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 = 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/~~failing~~ 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	Refer below cl. no. 2.6.1 to cl. no. 2.6.5.8	P
2.6.1	Protective earthing	EL 2108-01	No such protective earthing used	N/A
2.6.2	Functional earthing : The Functional earthing either separated from hazardous voltages by double or reinforced insulation or by protectively earthed screen or conductive part separated by at least basic insulation, or safely connected to Protective Bonding Conductor.*	EL 2108-02	Functional earthing separated from hazardous voltages by 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	See above cl. no. 2.6.1	N/A
2.6.3.2	Size of protective earthing conductors	EL 2108-05	See above cl. no. 2.6.1	N/A
	Rated current (A), cross-sectional area (mm2),		See above cl. no. 2.6.1	N/A
2.6.3.3	Size of protective bonding conductors	EL 2108-06	See above cl. no. 2.6.1	N/A
	Protective current Rating (A), cross-sectional area (mm2)		See above cl. no. 2.6.1	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 cl. no. 2.6.1	N/A
2.6.3.5	Colour of insulation*:	EL 2108-08	See above cl. no. 2.6.1	N/A
2.6.4	Terminals		See above cl. no. 2.6.1	N/A
2.6.4.2	Protective earthing and bonding terminals : Rated current(A), Type, Nominal thread diameter (mm)	EL 2108-09	See above cl. no. 2.6.1	N/A
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors*	EL 2108-10	See above cl. no. 2.6.1	N/A
2.6.5	Integrity of protective earthing*		See above cl. no. 2.6.1	N/A
2.6.5.1	Interconnection of equipment*	EL 2108-11	See above cl. no. 2.6.1	N/A
2.6.5.2	Components in protective earthing conductors and protective bonding conductors*	EL 2108-12	See above cl. no. 2.6.1	N/A

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2.6.5.3	Disconnection of protective earth*	EL 2108-13	See above cl. no. 2.6.1	N/A
2.6.5.4	Parts that can be removed by an operator*	EL 2108-14	See above cl. no. 2.6.1	N/A
2.6.5.5	Parts removed during servicing*	EL 2108-15	See above cl. no. 2.6.1	N/A
2.6.5.6	Corrosion resistance*	EL 2108-16	See above cl. no. 2.6.1	N/A
2.6.5.7	Screws for protective bonding*	EL 2108-17	See above cl. no. 2.6.1	N/A
2.6.5.8	Reliance on telecommunication network or cable distribution system*	EL 2108-18	See above cl. no. 2.6.1	N/A

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

Total No of applicable Requirement = 02

No of Requirements for which the sample passed = 02

Total number of tests to be conducted = 05

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/~~failing~~ in the requirement tested.

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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 cl. no. 2.7.1 to cl. no. 2.7.6	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	Protection against over current and short-circuits is provided as an integral part of the equipment.	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.		Neither pluggable equipment type B nor permanently connected equipment	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	No such protection as integral part of the equipment	N/A
2.7.3	Short-circuit backup protection	EL 2109-03	The equipment is pluggable Type A. The building installation is considered as providing short-circuit backup protection.	P
2.7.4	Number and location of protective devices:	EL 2109-04	The protective device is located adequately therefore able to interrupt the overcurrent flowing in any possible fault current path.	P
2.7.5	Protection by several devices*	EL 2109-05	Complies	P
2.7.6	Warning to service personnel*:	EL 2109-06	No service work 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/~~failing~~ in the requirement tested.

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(Approving Authority)

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 safety interlocks in the EUT	N/A
2.8.1	General principles*	EL 2110-01	See above cl.no.2.8	N/A
2.8.2	Protection requirements	EL 2110-02	See above cl.no.2.8	N/A
2.8.3	Inadvertent reactivation	EL 2110-03	See above cl.no.2.8	N/A
2.8.4	Fail-safe operation	EL 2110-04	See above cl.no.2.8	N/A
2.8.5	Moving parts	EL 2110-05	See above cl.no.2.8	N/A
2.8.6	Overriding*	EL 2110-06	See above cl.no.2.8	N/A
2.8.7	Switches, relays and their related circuits	EL 2110-07	See above cl.no.2.8	N/A
2.8.7.1	Separation distances for contact gaps and their related circuits`	EL 2110-08	See above cl.no.2.8	N/A
2.8.7.2	Overload test	EL 2110-09	See above cl.no.2.8	N/A
2.8.7.3	Endurance test	EL 2110-10	See above cl.no.2.8	N/A
2.8.7.4	Electric strength test	EL 2110-11	See above cl.no.2.8	N/A
2.8.8	Mechanical actuators	EL 2110-12	See above cl.no.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.

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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	See below cl. no. 2.9.1 to cl. no. 2.9.4	P
2.9.1	Properties of insulating materials*	EL 2111-01	Neither natural rubber, materials containing asbestos nor hygroscopic materials are used as insulation. No driving belts or couplings used	P
2.9.2	Humidity conditioning	EL 2111-02	See below subclause	P
	Relative Humidity : 93 ±3 % Temperature: t at 40 ± 2°C Duration : 120 hours		Relative humidity (93±3) %, temperature (40 ±2) °C, tested for 120hours.	P
2.9.3	Grade of insulation*	EL 2111-03	Insulations considered to be Basic, supplementary, double, reinforced and functional insulation	P
2.9.4	Separation from hazardous voltages*	EL 2111-04	The adequate levels of safety insulation provided and maintained to comply with the requirements of this standard	P
	Method(s) used		Method 1	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/~~failing~~ 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 cl no. 2.10.1.1 to cl no. 2.10.12	P
2.10.1.1	Frequency *	EL 2112-01	50/60Hz	P
2.10.1.2	Pollution degrees*	EL 2112-02	Pollution Degree II	P
2.10.1.3	Reduced values for functional insulation	EL 2112-03	Complies with 5.3.4 (c)	P
2.10.1.4	Intervening unconnected conductive parts	EL 2112-04	No intervening unconnected conductive parts	N/A
2.10.1.5	Insulation with varying dimensions	EL 2112-05	No insulation with varying dimensions	N/A
2.10.1.6	Special separation requirements	EL 2112-06	No special separation requirement	N/A
2.10.1.7	Insulation in circuits generating starting pulses	EL 2112-07	No circuit generating starting pulse	N/A
2.10.2	Determination of working voltage	EL 2112-08	See below cl no. 2.10.2.2 and cl no. 2.10.2.3	P
2.10.2.2	RMS working voltage	EL 2112-09	(See appended table 2.10.2)	P
2.10.2.3	Peak working voltage	EL 2112-10	(See appended table 2.10.2)	P
2.10.3	Clearances	EL 2112-11	(See appended table 2.10.3 and 2.10.4)	P
2.10.3.1	General	EL 2112-12	See below cl no. 2.10.3.2	P
2.10.3.2	Mains transient voltages*		See below subclauses	P
	a) AC mains supply * :	EL 2112-13	Overvoltage category II, Mains transient voltage 2500Vpeak considered	P
	b) Earthed d.c. mains supplies*	EL 2112-14	No d.c. mains supply	N/A
	c) Unearthed d.c. mains supplies* :	EL 2112-15	No d.c. mains supply	N/A
	d) Battery operation* :	EL 2112-16	No such battery used	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	Sub-clause 5.3.4 c) considered	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	Considered mains transient voltage 1500Vpeak	P
2.10.3.7	Transients from d.c. mains supply :	EL 2112-21	Supplied from a.c mains supply	N/A

2.10.3.8	Transients from telecommunication networks and cable distribution systems :	EL 2112-22	No telecommunication networks and cable distribution systems	N/A
2.10.3.9	Measurement of transient voltages		Not measured, normal transient levels considered	N/A
	a) Transients from a mains supply	EL 2112-23	See below subclauses	N/A
	For an a.c. mains supply		See above cl. no. 2.10.3.9	N/A
	For a d.c. mains supply		No d.c. mains supply	N/A
	b) Transients from a telecommunication network	EL 2112-24	No telecommunication network	N/A
2.10.4	Creepage distances*	EL 2112-25	(see appended table 2.10.3 and 2.10.4)	P
2.10.4.1	General	EL 2112-26	Considered	P
2.10.4.2	Material group and comparative tracking index : CTI tests*	EL 2112-27	Material group IIIb Considered	P
2.10.4.3	Minimum creepage distances	EL 2112-28	(see appended table 2.10.3 and 2.10.4)	P
2.10.5	Solid insulation	EL 2112-29	See below cl. no. 2.10.5.1 to 2.10.5.13	P
2.10.5.1	General	EL 2112-30	Considered	P
2.10.5.2	Distances through insulation	EL 2112-31	(see appended table 2.10.5)	P
2.10.5.3	Insulating compound as solid insulation	EL 2112-32	No such components used	N/A
2.10.5.4	Semiconductor devices	EL 2112-33	Certified Photocoupler Used (see appended table 1.5.1)	P
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	Considered	P
2.10.5.7	Separable thin sheet material	EL 2112-36	Separable thin sheet material used in transformer	P
2.10.5.8	Non-separable thin sheet material	EL 2112-37	Non-separable thin sheet material not used	N/A
2.10.5.9	Thin sheet material – standard test procedure	EL 2112-38	Alternative test procedure used	N/A
	Electric strength test as per Cl.5.2.2		See above cl.no. 2.10.5.9	N/A
2.10.5.10	Thin sheet material – alternative test procedure	EL 2112-39	Electric strength test applied	P
	Electric strength test as per Cl.5.2.2		(see appended table 5.2)	P
2.10.5.11	Insulation in wound components	EL 2112-40	Certified Triple Insulated Wire used (see appended table 1.5.1)	P
2.10.5.12	Wire in wound components		Certified Triple Insulated Wire used (see appended table 1.5.1)	P
	If Peak Working voltage >71 V		See above cl. no. 2.10.5.12	P

	a) Basic insulation not under stress	EL 2112-41	See above cl. no. 2.10.5.12	P
	b) Basic, supplementary, reinforced insulation	EL 2112-42	See above cl. no. 2.10.5.12	P
	c) Compliance with Annex U	EL 2112-43	See above cl. no. 2.10.5.12	P
	d) Where two winding wires in contact inside wound component; angle between 45° and 90°	EL 2112-44	See above cl. no. 2.10.5.12	P
2.10.5.13	Wire with solvent-based enamel in wound components		No such wire 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		No such additional insulation used	N/A
	If Peak Working Voltage >71V		See above cl. no. 2.10.5.14	N/A
	a) Basic insulation not under stress	EL 2112-47	See above cl. no. 2.10.5.14	N/A
	b) Supplementary, reinforced insulation	EL 2112-48	See above cl. no. 2.10.5.14	N/A
2.10.6	Construction of printed boards*		See below cl.no.2.10.6.1 to cl.no.2.10.6.4	P
2.10.6.1	Uncoated printed boards	EL 2112-49	(see appended table 2.10.3 and 2.10.4)	P
2.10.6.2	Coated printed boards	EL 2112-50	No coated printed boards	N/A
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	EL 2112-51	Not multi-layer printed board.	N/A
2.10.6.4	Insulation between conductors on different surfaces of a printed board*		Single layer PCB used	N/A
	a) Minimum Thickness of insulation: 0.4mm or	EL 2112-52	See above cl. no. 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. no. 2.10.6.4	N/A
2.10.7	Component external terminations	EL 2112-54	No such external terminations	N/A
2.10.8	Tests on coated printed boards and coated components		No coated printed boards	N/A
2.10.8.1	Sample preparation and preliminary inspection*	EL 2112-55	See above cl. no. 2.10.8	N/A
2.10.8.2	Thermal conditioning	EL 2112-56	See above cl. no. 2.10.8	N/A
2.10.8.3	Electric strength test	EL 2112-57	See above cl. no. 2.10.8	N/A

2.10.8.4	Abrasion resistance test	EL 2112-58	See above cl. no. 2.10.8	N/A
2.10.9	Thermal cycling	EL 2112-59	Certified Photocoupler Used (see appended table 1.5.1)	P
2.10.10	Test for Pollution Degree 1 environment and insulating compound	EL 2112-60	Pollution Degree 2	N/A
2.10.11	Tests for semiconductor devices and cemented joints	EL 2112-61	Certified Photocoupler Used (see appended table 1.5.1)	P
2.10.12	Enclosed and sealed parts	EL 2112-62	No enclosed and sealed parts	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 = 26
No. of tests for which the sample passed= 26

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

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(Approving Authority)

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 cl.no. 3.1.1 to cl.no. 3.1.10	P
3.1.1	Current rating and overcurrent protection	EL 2113-01	Certified internal earthing wire used (see appended table 1.5.1)	P
3.1.2	Protection against mechanical damage*	EL 2113-02	Wireways are smooth and free from edges. Wires are adequately fixed to prevent excessive strain on wire and terminals and avoiding damage to the insulation of the conductors	P
3.1.3	Securing of internal wiring*	EL 2113-03	Internal wiring is secured against excessive strain, loosening of terminals and damage to the conductor insulation	P
3.1.4	Insulation of conductors	EL 2113-04	Insulation on internal conductor is considered to be of adequate quality and suitable for the application	P
3.1.5	Beads and ceramic insulators	EL 2113-05	No beads & ceramic insulators on conductors	N/A
3.1.6	Screws for electrical contact pressure*	EL 2113-06	No such screws used	N/A
3.1.7	Insulating materials in electrical connections*	EL 2113-07	No such materials used	N/A
3.1.8	Self-tapping and spaced thread screws*	EL 2113-08	No such screws used	N/A
3.1.9	Termination of conductors: 10 N pull test	EL 2113-09	All conductors are secured Compliance verified by 10N pull test	P
3.1.10	Sleeving on wiring*	EL 2113-10	Sleeves can only be removed by breaking or cutting.	P

*- Total number of Requirements to be observed / inspected = 07

Total No of applicable Requirement = 04

No of Requirements for which the sample passed = 04

Total number of tests to be conducted = 04

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/~~failing~~ in the requirement tested.

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(Approving Authority)

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	See below cl no. 3.2.1 to cl no. 3.2.9	P
3.2.1	Means of connection		See below cl.no. 3.2.1.1 to cl. no. 3.2.1.2	P
3.2.1.1	Connection to an a.c. mains supply*	EL 2114-01	Connection to an AC mains supply is provided by an appliance inlet for a detachable power supply cord	P
3.2.1.2	Connection to a d.c. mains supply*	EL 2114-02	No d.c mains supply	N/A
3.2.2	Multiple supply connections	EL 2114-03	No multiple supply	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	Appliance inlet complies with IEC 60320, power cord inserted without difficulties (See appended table 1.5.1)	P
3.2.5	Power supply cords		See below cl. no. 3.2.5.1 to 3.2.5.2	P
3.2.5.1	AC power supply cords*	EL 2114-06	Certified power supply cord set used (See appended table 1.5.1)	P
	Rated current (A), cross-sectional area (mm^2), AWG		See above clause	P
3.2.5.2	DC power supply cords*	EL 2114-07	No D.C. power supply cord used	N/A
3.2.6	Cord anchorages and strain relief		No non-detachable power supply cord set provided	N/A
	Mass of the equipment: Pull Force (N):	EL 2114-08	See above cl.no. 3.2.6	N/A
	b) Longitudinal displacement: 2 mm (Max)	EL 2114-09	See above cl.no. 3.2.6	N/A
3.2.7	Protection against mechanical damage	EL 2114-10	No such Construction	N/A
3.2.8	Cord guards		The equipment is neither hand-held nor intended to be moved during operation	N/A

	a) Diameter or minor dimension D (mm) : Test mass (g) :	EL 2114-11	See above cl. no. 3.2.7	N/A
	b) Radius of curvature of cord : 1.5 D (Min)	EL 2114-12	See above cl. no. 3.2.7	N/A
3.2.9	Supply wiring space	EL 2114-13	Not permanently connected or non-detachable equipment	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 = 10

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/~~failing~~ in the requirement tested

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(Approving Authority)

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 wiring terminals for connection of external conductors	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.

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(Approving Authority)

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	See below cl. no. 3.4.1 to cl. no. 3.4.11	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 cl. no. 3.4.2 to cl. no. 3.4.11	P
3.4.2	Disconnect devices*	EL 2116-02	Appliance Inlet is considered as disconnect device	P
3.4.3	Permanently connected equipment*	EL 2116-03	The equipment is not permanently connected equipment	N/A
3.4.4	Parts which remain energized*	EL 2116-04	When the equipment is disconnected from mains, No remaining parts at hazardous voltage in the equipment	N/A
3.4.5	Switches in flexible cords*	EL 2116-05	No switches in flexible power supply cord	P
3.4.6	Number of poles - single-phase and d.c. equipment*	EL 2116-06	Disconnect device disconnects 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	Appliance Inlet is considered as disconnect device	N/A
3.4.9	Plugs as disconnect devices*	EL 2116-09	Appliance Inlet is considered as disconnect device	N/A
3.4.10	Interconnected equipment*	EL 2116-10	No Interconnected equipment	N/A
3.4.11	Multiple power sources*	EL 2116-11	Only one power source	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/~~failing~~ in the requirement tested.

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(Approving Authority)

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 cl. no. 3.5.1 to cl. no. 3.5.4	P
3.5.1	General requirements*	EL 2117-01	SELV to SELV connections	P
3.5.2	Types of interconnection circuits*	EL 2117-02	Interconnection circuits are only SELV Circuit	P
3.5.3	ELV circuits as interconnection circuits *	EL 2117-03	No ELV circuits	N/A
3.5.4	Data ports for additional equipment	EL 2117-04	The SELV circuit of data ports is supplied by a limited power source that complies with clause 2.5	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/~~failing~~ in the requirement tested.

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(Approving Authority)

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	See below cl. no. 4.1	N/A
4.1	Stability	EL 2118-01	See below subclauses	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 the EUT less than 7 kg	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	No such equipment	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	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 = 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.

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(Approving Authority)

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 cl no. 4.2.1 to cl no. 4.2.10	P
4.2.1	General	EL 2119-01	Complies with the requirement also after tests described below are applied	P
4.2.2	Steady force test, 10 N	EL 2119-02	The EUT is still complying with relevant requirements of this standard after 10 N force is applied to the relevent parts	P
4.2.3	Steady force test, 30 N	EL 2119-03	No such parts	N/A
4.2.4	Steady force test, 250 N	EL 2119-04	The equipment is still complying with relevant requirements of this standard after 250 N force is applied to the external enclosure	P
4.2.5	Impact test	EL 2119-05	No such equipment	N/A
	a) Fall test as per Fig. 4A	EL 2119-06	See above cl. no. 4.2.5	N/A
	b) Swing test as per Fig. 4A	EL 2119-07	See above cl. no. 4.2.5	N/A
4.2.6	Drop test; height (mm):	EL 2119-08	After 1000 mm drop, the equipment is still complying with relevant requirements of this standard	P
4.2.7	Stress relief test	EL 2119-09	70 °C/ 7 Hrs, No distortion or risk of shrinkage due to release of internal stresses.	P
4.2.8	Cathode Ray Tubes	EL 2119-10	No cathode ray tubes	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	Not intended to be mounted on a wall or ceiling	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~~/failing~~ 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 cl no. 4.3.1 to cl no. 4.3.13.6	P
4.3.1	Edges and corners*	EL 2120-01	All edges and corners are rounded and smoothed	P
4.3.2	Handles and manual controls; force (N).....:	EL 2120-02	No such handles and manual controls	N/A
4.3.3	Adjustable controls	EL 2120-03	No hazardous adjustable controls	N/A
4.3.4	Securing of parts	EL 2120-04	Satisfactory	P
4.3.5	Connections by Plugs and Sockets*	EL 2120-05	No mismatch of connectors, plugs or sockets possible	N/A
4.3.6	Direct plug-in equipment	EL 2120-06	Not Direct plug-in equipment	N/A
	Torque	EL 2120-07	See above cl. no. 4.3.6	N/A
	Compliance with the relevant mains plug standard	EL 2120-08	See above cl. no. 4.3.6	N/A
4.3.7	Heating elements in earthed equipment*	EL 2120-09	No heating element	N/A
4.3.8	Batteries Portable secondary sealed cells and batteries (other than button) containing alkaline or other non-acid electrolyte shall comply with IEC 62133		No Batteries used in Equipment	N/A
	a) Overcharging of a rechargeable battery	EL 2120-10	See above cl. no. 4.3.8	N/A
	b) Unintentional charging of a non-rechargeable battery	EL 2120-11	See above cl. no. 4.3.8	N/A
	c) Reverse charging of a rechargeable battery	EL 2120-12	See above cl. no. 4.3.8	N/A
	d) Excessive discharging rate for any battery	EL 2120-13	See above cl. no. 4.3.8	N/A
	e) Electric strength as per Cl.5.3.9.2	EL 2120-14	See above cl. no. 4.3.8	N/A
4.3.9	Oil & grease*	EL 2120-15	No oil and grease	N/A
4.3.10	Dust, powders, liquids and gases	EL 2120-16	No dust, powders, liquids and gases	N/A
4.3.11	Containers for liquids or gases	EL 2120-17	No containers for liquids or gases	N/A
4.3.12	Flammable liquids	EL 2120-18	No flammable liquids	N/A
4.3.13	Radiation		See below cl. no. 4.3.13.2 to cl. no. 4.3.13.6	P
4.3.13.2	Ionizing radiation	EL 2120-19	No UV radiation produced by EUT	N/A

4.3.13.3	Effect of ultraviolet (UV) radiation on materials	EL 2120-20	No UV radiation in the EUT	N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation	EL 2120-21	No such type construction	N/A
4.3.13.5	Lasers (including laser diodes) and LED's:		Low power LED is used for indication only	P
4.3.13.5.1	Lasers (including laser diodes) For laser see IEC 60825-1, respective part as applicable.	EL 2120-22	See above cl no. 4.3.13.5	N/A
	Laser class		See above cl no. 4.3.13.5	N/A
4.3.13.5.2	Light emitting diodes (LED's)	EL 2120-23	Low power LED is used for indication only	P
4.3.13.6	Other types*	EL 2120-24	No other type of radiations in the EUT	N/A

*- Total number of Requirements to be observed / inspected = 06

Total No of applicable Requirement = 02

No of Requirements for which the sample passed = 02

Total number of tests to be conducted = 19

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/~~failing~~ in the requirement tested.

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(Approving Authority)

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	N/A
4.4.1	General	EL 2121-01	See above cl. no. 4.4	N/A
4.4.2	Protection in operator access areas	EL 2121-02	See above cl. no. 4.4	N/A
4.4.3	Protection in restricted access locations *	EL 2121-03	See above cl. no. 4.4	N/A
4.4.4	Protection in service access areas*	EL 2121-04	See above cl. no. 4.4	N/A
4.4.5	Protection against moving fan blades	EL 2121-05	See above cl. no. 4.4	N/A
4.4.5.1	General*	EL 2121-06	See above cl. no. 4.4	N/A
	Not considered likely to cause pain or injury. a).....:	EL 2121-07	See above cl. no. 4.4	N/A
	Is considered likely to cause pain, not injury. b)	EL 2121-08	See above cl. no. 4.4	N/A
	Considered likely to cause injury. c).....:	EL 2121-09	See above cl. no. 4.4	N/A
4.4.5.2	Protection for users*	EL 2121-10	See above cl. no. 4.4	N/A
	Use of symbol or warning*	EL 2121-11	See above cl. no. 4.4	N/A
4.4.5.3	Protection for service persons*	EL 2121-12	See above cl. no. 4.4	N/A
	Use of symbol or warning *	EL 2121-13	See above cl. no. 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.

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(Approving Authority)

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	Components, parts temperture within limits	P
4.5.1	General	EL 2122-01	Operated in the most unfavorable way of operation given in the operating instructions until steady conditions established **(see appended table 4.5)**	P
4.5.2	Temperature tests	EL 2122-02	**(see appended table 4.5)**	P
4.5.3	Temperature limits for materials*	EL 2122-03	**(see appended table 4.5)**	P
4.5.4	Touch temperature limits*	EL 2122-04	(see appended table 4.5)	P
4.5.5	Resistance to abnormal heat	EL 2122-05	Certified material used **(see appended table 1.5.1)**	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 = 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/~~failing~~ in the requirement tested.

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(Approving Authority)

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 openings	N/A
4.6.1	Top and side openings	EL 2123-01	See above cl. no. 4.6	N/A
	Dimensions (mm) :		See above cl. no. 4.6	N/A
4.6.2	Bottoms of fire enclosures :	EL 2123-02	See above cl. no. 4.6	N/A
	Construction of the bottom, dimensions (mm) :		See above cl. no. 4.6	N/A
4.6.3	Doors or covers in fire enclosures*	EL 2123-03	See above cl. no. 4.6	N/A
4.6.4	Openings in transportable equipment	EL 2123-04	See above cl. no. 4.6	N/A
4.6.4.1	Constructional design measures	EL 2123-05	See above cl. no. 4.6	N/A
	Dimensions (mm)		See above cl. no. 4.6	N/A
4.6.4.2	Evaluation measures for larger openings	EL 2123-06	See above cl. no. 4.6	N/A
4.6.4.3	Use of metallized parts	EL 2123-07	See above cl. no. 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. no. 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. no. 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. no. 4.6	N/A
	c) Place the sample at 40°C±2°C for 4 hours	EL 2123-11	See above cl. no. 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. no. 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. no. 4.6	N/A

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	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. no. 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. no. 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. no. 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. no. 4.6	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 = 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.

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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 cl. no. 4.7.1 to cl. no. 4.7.3.6	P
4.7.1	Reducing the risk of ignition and spread of flame		Materials with the required flammability classes are used. Safety relevant components used within Specified rating. Electrical parts are not likely to ignite nearby materials	P
	Method 1, selection and application of components wiring and materials OR	EL 2124-01	Method 1 used	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	No such parts	N/A
4.7.3	Materials*	EL 2124-05	(see appended table 1.5.1)	P
4.7.3.1	General*	EL 2124-06	(see appended table 1.5.1)	P
	a) Class of material used*	EL 2124-07	Components and materials have adequate flammability classifications (see appended 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 class of 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	No such class of material used	N/A
4.7.3.2	Materials for fire enclosures		See below subclauses	P

	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 Adaptor enclosure used (See appended table 1.5.1)	P
	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	Mass of the equipment is less than 18kg	N/A
	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. no. 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. no. 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. The average time to ignition of the samples shall be not less than 15sec. If the sample melts through without igniting, the time at which this occurs is not considered to be the time to ignition.	EL 2124-14	See above cl. no. 4.7.3.2	N/A

4.7.3.3	Materials for components and other parts outside fire enclosures *		No components and other parts outside 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. no. 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. no. 4.7.3.3	N/A
4.7.3.4	Materials for components and other parts inside fire enclosures		See below subclauses	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	Internal components are mounted on V-0 Class PCB material (See appended table 1.5.1)	P

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	Requirements for voltage dependent resistors (VDR's) are in Annex Q.*	EL 2124-18	See annex Q	P
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 filters used	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. no. 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. no. 4.7.3.6	N/A
	Clause 8 - Conditioning	EL 2124-23	See above cl. no. 4.7.3.6	N/A
	Clause 11 - Evaluation of test results	EL 2124-24	See above cl. no. 4.7.3.6	N/A

*- Total number of Requirements to be observed / inspected = 07
Total No of applicable Requirement = 06
No of Requirements for which the sample passed = 06

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/~~failing~~ 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 cl. no. 5.1 to cl. no. 5.1.8	P
5.1	Touch current and protective conductor current*	EL 2125-01	See below cl. no. 5.1.2 to cl. no. 5.1.8	P
5.1.2	Configuration of equipment under test (EUT)*	EL 2125-02	Complete unit	N/A
5.1.2.1	Single connection to an a.c. mains supply*	EL 2125-03	Not an interconnected equipment	N/A
5.1.2.2	Redundant multiple connections to an a.c. mains supply*	EL 2125-04	Not for multiple connection	N/A
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply	EL 2125-05	Not for multiple connection	N/A
5.1.3	Test circuit	EL 2125-06	Single phase equipment intended only for connection to TN system. Touch current test conducted based on TN systems using the test circuit in Figure 5A.	P
5.1.4	Application of measuring instrument	EL 2125-07	Testing performed as per Annex D	P
5.1.5	Test procedure	EL 2125-08	See below clause	P
5.1.6	Test measurements		(see appended table 5.1.6)	P
	a) r.m.s value of voltage, U2 measured using the instrument as per Fig. D.1 or r.m.s value of current measured using the instrument as per Fig. D.2 Alternatively, peak value of voltage, U2, is measured using the measuring instrument described in Clause D.1	EL 2125-09	(see appended table 5.1.6)	P
	b) Measured touch current (mA):	EL 2125-10	(see appended table 5.1.6)	P
	c) Calculated value of TOUCH CURRENT (mA) = U2 / 500	EL 2125-11	(see appended table 5.1.6)	P
	d) Measured protective conductor current(mA)	EL 2125-12	No such equipment	N/A
	e) Max. protective conductor current =5% of Input current	EL 2125-13	No such equipment	N/A
5.1.7	Equipment with touch current exceeding 3.5 mA	EL 2125-14	touch current did not exceed 3.5 mA	N/A

5.1.7.1	General	EL 2125-15	See above cl. no. 5.1.7	N/A
5.1.7.2	Simultaneous multiple connections to the supply	EL 2125-16	No such multiple connections to supply	N/A
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks	EL 2125-17	No such networks	N/A
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system	EL 2125-18	See above cl. no. 5.1.8	N/A
	Supply voltage (V)		See above cl. no. 5.1.8	N/A
	Measured touch current (mA)		See above cl. no. 5.1.8	N/A
	Max. allowed touch current (mA)		See above cl. no. 5.1.8	N/A
5.1.8.2	Summation of touch currents from telecommunication networks	EL 2125-19	See above cl. no. 5.1.8	N/A
	a) EUT with earthed telecommunication ports :		See above cl. no. 5.1.8	N/A
	b) EUT whose telecommunication ports have no reference to protective earth		See above cl. no. 5.1.8	N/A

*- Total number of Requirements to be observed / inspected = 05

Total No of applicable Requirement = 02

No of Requirements for which the sample passed = 02

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/~~failing~~ 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 cl no. 5.2.1 and cl no. 5.2.2	P
5.2.1	General*	EL 2126-01	(see appended table 5.2)	P
5.2.2	Test procedure		No insulation breakdown observed during the test	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	(See appended table 5.2)	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/~~failing~~ 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 cl. no. 5.3.1 to cl. no. 5.3.9.2	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 motors used	N/A
5.3.3	Transformers	EL 2127-03	See annex C	P
5.3.4	Functional insulation:	EL 2127-04	Complies with 5.3.4 c)	P
5.3.5	Electromechanical components	EL 2127-05	No electromechanical component	N/A
5.3.6	Audio amplifiers in ITE:	EL 2127-06	No Audio Amplifiers in 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	Not un-attended equipment	N/A
5.3.9	Compliance criteria for abnormal operating and fault conditions*		See below subclauses	P
5.3.9.1	During the tests	EL 2127-09	No fire, emission of molten metal or deformation was noted during the tests.	P
5.3.9.2	After the tests	EL 2127-10	Electric Strength performed after abnormal and fault tests.	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/~~failing~~ 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 telecommunication network	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 Uop of Uop =Upeak + ΔUsp + ΔUsa Where Upeak is 360V or 180V ΔUsp 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) ΔUsa 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.

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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 overvoltage on telecommunication networks*	EL 2129-00	No telecommunication network	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.

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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 telecommunication network	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 cl. no. 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 cl. no. 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 cl. no. 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 cl. no. 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.

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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. no. 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. no. 7	N/A
7.3	Protection of equipment users from overvoltages on the cable distribution system	EL 2131-03	See above cl. no. 7	N/A
7.4	Insulation between primary circuits and cable distribution systems	EL 2131-04	See above cl. no. 7	N/A
7.4.1	General	EL 2131-05	See above cl. no. 7	N/A
7.4.2	Voltage surge test	EL 2131-06	See above cl. no. 7	N/A
7.4.3	Impulse test	EL 2131-07	See above cl. no. 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.

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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 cl. no. A1 to cl. no. A.3.3	P
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 of the equipment is less than 18kg	N/A
A.1.1	Samples:	EL 2132-02	See above cl. no. A.1	N/A
	Wall thickness (mm):		See above cl. no. A.1	N/A
A.1.2	Conditioning of samples; temperature (°C) :	EL 2132-03	See above cl. no. A.1	N/A
A.1.3	Mounting of samples :	EL 2132-04	See above cl. no. A.1	N/A
A.1.4	Test flame (see IEC 60695-11-3)	EL 2132-05	See above cl. no. A.1	N/A
	Flame A, B, C or D :		See above cl. no. A.1	N/A
A.1.5	Test procedure	EL 2132-06	See above cl. no. A.1	N/A
A.1.6	Compliance criteria	EL 2132-07	See above cl. no. A.1	N/A
	Sample 1 burning time (s):		See above cl. no. A.1	N/A
	Sample 2 burning time (s):		See above cl. no. A.1	N/A
	Sample 3 burning time (s):		See above cl. no. 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 Adaptor enclosure used (see appended table 1.5.1) & Internal components are mounted on V-0 class PCB material (see appended table 1.5.1)	P
A.2.1	Samples, material:	EL 2132-09	See above cl. no. A.2	P
	Wall thickness (mm):		See above cl. no. A.2	P
A.2.2	Conditioning of samples; temperature (°C) :	EL 2132-10	See above cl. no. A.2	P
A.2.3	Mounting of samples :	EL 2132-11	See above cl. no. A.2	P
A.2.4	Test flame (see IEC 60695-11-4)	EL 2132-12	See above cl. no. A.2	P
	Flame A, B or C :		See above cl. no. A.2	P

A.2.5	Test procedure	EL 2132-13	See above cl. no. A.2	P
A.2.6	Compliance criteria	EL 2132-14	See above cl. no. A.2	P
	Sample 1 burning time (s):		See above cl. no. A.2	P
	Sample 2 burning time (s):		See above cl. no. A.2	P
	Sample 3 burning time (s):		See above cl. no. A.2	P
A.2.7	Alternative test acc. to IEC 60695-11-5, cl. 5 and 9	EL 2132-15	No alternative method required	N/A
	Sample 1 burning time (s):		See above cl. no. A.2.7	N/A
	Sample 2 burning time (s):		See above cl. no. A.2.7	N/A
	Sample 3 burning time (s):		See above cl. no. A.2.7	N/A
A.3	Hot flaming oil test (see 4.6.2)	EL 2132-16	No such equipment	N/A
A.3.1	Mounting of samples	EL 2132-17	See above cl. no. A.3	N/A
A.3.2	Test procedure	EL 2132-18	See above cl. no. A.3	N/A
A.3.3	Compliance criterion	EL 2132-19	See above cl. no. 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 = 08

No. of tests for which the sample passed= 08

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

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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	No such motors used	N/A
B.1	General requirements	EL 2133-01	See above cl. no. B	N/A
	Position :		See above cl. no. B	N/A
	Manufacturer :		See above cl. no. B	N/A
	Type :		See above cl. no. B	N/A
	Rated values :		See above cl. no. B	N/A
B.2	Test conditions	EL 2133-02	See above cl. no. B	N/A
B.3	Maximum temperatures	EL 2133-03	See above cl. no. B	N/A
B.4	Running overload test	EL 2133-04	See above cl. no. B	N/A
B.5	Locked-rotor overload test	EL 2133-05	See above cl. no. B	N/A
	Test duration (days):		See above cl. no. B	N/A
	Electric strength test: test voltage (V) :		See above cl. no. B	N/A
B.6	Running overload test for d.c. motors in secondary circuits	EL 2133-06	See above cl. no. B	N/A
B.6.1	General	EL 2133-07	See above cl. no. B	N/A
B.6.2	Test procedure	EL 2133-08	See above cl. no. B	N/A
B.6.3	Alternative test procedure	EL 2133-09	See above cl. no. B	N/A
B.6.4	Electric strength test; test voltage (V):	EL 2133-10	See above cl. no. B	N/A
B.7	Locked-rotor overload test for d.c. motors in secondary circuits	EL 2133-11	See above cl. no. B	N/A
B.7.1	General	EL 2133-12	See above cl. no. B	N/A
B.7.2	Test procedure	EL 2133-13	See above cl. no. B	N/A
B.7.3	Alternative test procedure	EL 2133-14	See above cl. no. B	N/A
B.7.4	Electric strength test; test voltage (V) :	EL 2133-15	See above cl. no. B	N/A
B.8	Test for motors with capacitors	EL 2133-16	See above cl. no. B	N/A
B.9	Test for three-phase motors	EL 2133-17	See above cl. no. B	N/A
B.10	Test for series motors	EL 2133-18	See above cl. no. B	N/A
	Operating voltage (V) :		See above cl. no. B	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 = 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.

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(Approving Authority)

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	See below subclauses	P
	Position :		(See appended table 1.5.1.)	P
	Manufacturer:		(See appended table 1.5.1.)	P
	Type :		(See appended table 1.5.1.)	P
	Rated values :		(See appended table 1.5.1.)	P
	Method of protection:		Overcurrent protection by circuit design.	P
C.1	Overload test	EL 2134-01	Complies (see appended table 5.3)	P
C.2	Insulation	EL 2134-02	(See appended table 5.2)	P
	Protection from displacement of windings:		Insulation tape provided at each end of winding	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/~~failing~~ 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	Complies	P
D.1	Measuring instrument	EL 2135-01	The measuring instrument of Figure D.1 is from Figure 4 of IEC 60990	P
D.2	Alternative measuring instrument	EL 2135-02	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/~~failing~~ in the requirement tested.

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(Approving Authority)

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	Method 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 = 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.

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(Approving Authority)

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	(See appended table 2.10.3 and 2.10.4)	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/~~failing~~ in the requirement tested.

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(Approving Authority)

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 cl. no. G	N/A
G.1.1	General	EL 2138-02	See above cl. no. G	N/A
G.1.2	Summary of the procedure for determining minimum clearances	EL 2138-03	See above cl. no. G	N/A
G.2	Determination of mains transient voltage (V)	EL 2138-04	See above cl. no. G	N/A
G.2.1	AC Mains supply	EL 2138-05	See above cl. no. G	N/A
G.2.2	Earthed d.c. mains supplies	EL 2138-06	See above cl. no. G	N/A
G.2.3	Unearthed d.c. mains supplies	EL 2138-07	See above cl. no. G	N/A
G.2.4	Battery operation	EL 2138-08	See above cl. no. G	N/A
G.3	Determination of telecommunication network transient voltage (V)	EL 2138-09	See above cl. no. G	N/A
G.4	Determination of required withstand voltage (V)	EL 2138-10	See above cl. no. G	N/A
G.4.1	Mains transients and internal repetitive peaks	EL 2138-11	See above cl. no. G	N/A
G.4.2	Transients from telecommunication networks:	EL 2138-12	See above cl. no. G	N/A
G.4.3	Combination of transients	EL 2138-13	See above cl. no. G	N/A
G.4.4	Transients from cable distribution systems	EL 2138-14	See above cl. no. G	N/A
G.5	Measurement of transient voltages (V)	EL 2138-15	See above cl. no. G	N/A
	a) Transients from a mains supply		See above cl. no. G	N/A
	For an a.c. mains supply		See above cl. no. G	N/A
	For a d.c. mains supply		See above cl. no. G	N/A
	b) Transients from a telecommunication network		See above cl. no. G	N/A
G.6	Determination of minimum clearances	EL 2138-16	See above cl. no. 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.

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(Approving Authority)

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	No 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.

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(Approving Authority)

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	No electromechanical component	N/A
	Metal(s) used :		See above clause	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.

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(Approving Authority)

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 controls used in the equipment	N/A
K.1	Making and breaking capacity	EL 2141-01	See above cl. no. K	N/A
K.2	Thermostat reliability; operating voltage (V) :	EL 2141-02	See above cl. no. K	N/A
K.3	Thermostat endurance test; operating voltage (V) :	EL 2141-03	See above cl. no. K	N/A
K.4	Temperature limiter endurance; operating voltage (V) :	EL 2141-04	See above cl. no. K	N/A
K.5	Thermal cut-out reliability	EL 2141-05	See above cl. no. K	N/A
K.6	Stability of operation	EL 2141-06	See above cl. no. 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.

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(Approving Authority)

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 such equipment	N/A
L.2	Adding machines and cash registers*	EL 2142-02	No such equipment	N/A
L.3	Erasers*	EL 2142-03	No such equipment	N/A
L.4	Pencil sharpeners*	EL 2142-04	No such equipment	N/A
L.5	Duplicators and copy machines*	EL 2142-05	No such equipment	N/A
L.6	Motor-operated files*	EL 2142-06	No such equipment	N/A
L.7	Other business equipment*	EL 2142-07	Maximum normal operation	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/~~failing~~ 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	No telephone ringing signals	N/A
M.1	Introduction*	EL 2143-01	See above cl. no. M	N/A
M.2	Method A	EL 2143-02	See above cl. no. M	N/A
M.3	Method B	EL 2143-03	See above cl. no. M	N/A
M.3.1	Ringing signal	EL 2143-04	See above cl. no. M	N/A
M.3.1.1	Frequency (Hz)	EL 2143-05	See above cl. no. M	N/A
M.3.1.2	Voltage (V)	EL 2143-06	See above cl. no. M	N/A
M.3.1.3	Cadence; time (s), voltage (V)	EL 2143-07	See above cl. no. M	N/A
M.3.1.4	Single fault current (mA)	EL 2143-08	See above cl. no. M	N/A
M.3.2	Tripping device and monitoring voltage	EL 2143-09	See above cl. no. M	N/A
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage	EL 2143-10	See above cl. no. M	N/A
M.3.2.2	Tripping device	EL 2143-11	See above cl. no. M	N/A
M.3.2.3	Monitoring voltage (V)	EL 2143-12	See above cl. no. M	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.

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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	EUT is not connected to telecommunication network	N/A
N.1	ITU-T impulse test generators	EL 2144-01	See above cl. no. N	N/A
N.2	IEC 60065 impulse test generator	EL 2144-02	See above cl. no. 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.

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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	Satisfactory	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/~~failing~~ 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 appended 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 cl. no. Q	P
	A) PREFERRED CLIMATIC CATEGORIES LOWER CATEGORY TEMPERATURE: -10ºC UPPER CATEGORY TEMPERATURE: +85ºC DURATION OF DAMP TEST, STEADY STATE TEST:21 DAYS		See above cl. no. 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 cl. no. Q	P
	C) COMBINATION PULSE :	EL 2146-01	See above cl. no. 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 cl. no. 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/~~failing~~ in the requirement** tested.

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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	No such equipment	N/A
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)*	EL 2147-01	See above cl. no. R	N/A
R.2	Reduced clearances (see 2.10.3)*	EL 2147-02	See above cl. no. R	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 ~~passing/failing~~ in the requirement tested.

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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	EUT is not connected to telecommunication network	N/A
S.1	Test equipment*	EL 2148-01	See above cl. no. S	N/A
S.2	Test procedure*	EL 2148-02	See above cl. no. S	N/A
S.3	Examples of waveforms during impulse testing*	EL 2148-03	See above cl. no. 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.

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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	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

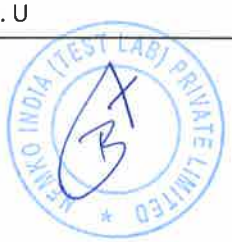
Certificate: It is certified that the above tests were performed and found to be ~~passing/failing~~ in the requirement tested.

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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	Safety Certified Triple insulated wire used in the Transformers (refer appended table 1.5.1)	P
U.1	GENERAL	EL2150-01	See above cl. no. U	P
U.2	TYPE TESTS	EL2150-02	See above cl. no. U	P
U.2.1	GENERAL	EL2150-03	See above cl. no. U	P
U.2.2	ELECTRIC STRENGTH	EL2150-04	See above cl. no. U	P
U.2.2.1	SOLID ROUND WINDING WIRE AND STRANDED WINDING WIRES	EL2150-05	See above cl. no. U	P
U.2.2.1.1	WIRES WITH NOMINAL CONDUCTOR DIAMETER UPTO AND INCLUDING 0.100MM	EL2150-06	See above cl. no. U	P
U.2.2.1.2	WIRES WITH NOMINAL CONDUCTOR DIAMETER OVER 0.100MM AND INCLUDING 2.500MM	EL2150-07	See above cl. no. U	P
U.2.2.1.3	WIRES WITH NOMINAL CONDUCTOR DIAMETER OVER 2.500MM	EL2150-08	See above cl. no. U	P
U.2.2.2	SQUARE OR RECTANGULAR WIRES	EL2150-09	See above cl. no. U	P
U.2.3	FLEXIBILITY AND ADHERENCE	EL2150-10	See above cl. no. U	P
U.2.4	HEAT SHOCK	EL2150-11	See above cl. no. U	P
U.2.5	RETENTION OF ELECTRIC STRENGTH AFTER BENDING	EL2150-12	See above cl. no. U	P
U.3	TESTING DURING MANUFACTURING	EL2150-13	See above cl. no. U	P
U.3.1	GENERAL	EL2150-14	See above cl. no. U	P
U.3.2	ROUTINE TESTS	EL2150-15	See above cl. no. U	P
U.3.3	SAMPLING TEST	EL2150-16	See above cl. no. U	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 = 17

Total No of applicable Tests = 17

No. of tests for which the sample passed= 17

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

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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 cl. no. V.1 to cl no. V.4	P
V.1	Introduction*	EL 2151-01	See below cl. no. V.2 to cl no. V.4	P
V.2	TN power distribution systems	EL 2151-02	TN power distribution systems considered	P
V.3	TT Power Distribution systems	EL 2151-03	See above cl. no. V.2	N/A
V.4	IT Power Distribution systems	EL 2151-04	See above cl. no. V.2	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/~~failing~~ in the requirement tested.

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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 such equipment	N/A
W.1	Touch current from electronic circuits*	EL 2152-01	See above cl. no. W	N/A
W.1.1	Floating circuits*	EL 2152-02	See above cl. no. W	N/A
W.1.2	Earthed circuits*	EL 2152-03	See above cl. no. W	N/A
W.2	Interconnection of several equipments*	EL 2152-04	See above cl. no. W	N/A
W.2.1	Isolation*	EL 2152-05	See above cl. no. W	N/A
W.2.2	Common return, isolated from earth*	EL 2152-06	See above cl. no. W	N/A
W.2.3	Common return, connected to protective earth*	EL 2152-07	See above cl. no. 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.

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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	See below cl. no. X.1 & cl. no. X.2	P
X.1	Determination of maximum input current*	EL 2153-01	(see appended table 5.3)	P
X.2	Overload test procedure*	EL 2153-02	Satisfactory	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/~~failing~~ 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 cl. no. Y	N/A
Y.2	Mounting of test samples	EL 2154-02	See above cl. no. Y	N/A
Y.3	Carbon-arc light-exposure apparatus	EL 2154-03	See above cl. no. Y	N/A
Y.4	Xenon-arc light exposure apparatus	EL 2154-04	See above cl. no. 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.

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(Approving Authority)

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	Overvoltage category II	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/~~failing~~ in the requirement tested.

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(Approving Authority)

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	Seperable thin sheet material 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 = 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.

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(Approving Authority)

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

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
CC	ANNEX CC, Evaluation of integrated circuit (IC) current limiters*	EL 2158-00	No such integrated circuit (IC) current limiters	N/A
CC.1	Integrated circuit (IC) current limiters*	EL 2158-01	See above cl. no. CC	N/A
CC.2	Test program 1	EL 2158-02	See above cl. no. CC	N/A
CC.3	Test program 2	EL 2158-03	See above cl. no. CC	N/A
CC.4	Test program 3	EL 2158-04	See above cl. no. CC	N/A
CC.5	Compliance	EL 2158-05	See above cl. no. 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.

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(Approving Authority)

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

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
DD	ANNEX DD, Requirements for the mounting means of rack-mounted equipment*	EL 2159-00	Not a rack-mounted equipment	N/A
DD.1	General		See above cl. no. DD	N/A
DD.2	Mechanical strength test, variable N.....:	EL 2159-01	See above cl. no. DD	N/A
DD.3	Mechanical strength test, 250N, including end stops.....:	EL 2159-02	See above cl. no. DD	N/A
DD.4	Compliance*.....:	EL 2159-03	See above cl. no. 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.

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(Approving Authority)

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	No such equipment	N/A
EE.1	General		See above cl. no. EE	N/A
EE.2	Markings and instructions*	EL 2160-01	See above cl. no. EE	N/A
	Use of markings or symbols*.....:		See above cl. no. EE	N/A
	Information of user instructions, maintenance and/or servicing instructions*.....:		See above cl. no. EE	N/A
EE.3	Inadvertent reactivation test.....:	EL 2160-02	See above cl. no. EE	N/A
EE.4	Disconnection of power to hazardous moving parts*	EL 2160-03	See above cl. no. EE	N/A
	Use of markings or symbols*.....:		See above cl. no. EE	N/A
EE.5	Protection against hazardous moving parts		See above cl. no. EE	N/A
	Test with test finger (Figure 2A) .....:	EL 2160-04	See above cl. no. EE	N/A
	Test with wedge probe (Figure EE1 and EE2) .....:	EL 2160-05	See above cl. no. 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.

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(Approving Authority)

1.5.1	TABLE: List of components				P
Object/part no.	Manufacturer/ trademark	Type/model	Technical data	Standard	Mark(s) of conformity[1)]
Adaptor Enclosure	CHI MEI CORPORATION	PA-765A(+)	V-1, 85°C Minimum thickness: 1.5mm	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E56070
Alternate	SABIC INNOVATIVE PLASTICS B V	SE1X(GG)(f1), SE1	V-1, 110°C Minimum thickness: 1.5mm	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E45329
Alternate	SABIC INNOVATIVE PLASTICS B V	SE100	V-1, 95°C Minimum thickness: 1.5mm	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E45329
Alternate	SABIC INNOVATIVE PLASTICS B V	C2950	V-0, 85°C Minimum thickness: 1.5mm	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E45329
Alternate	SABIC INNOVATIVE PLASTICS B V	CX7211(GG)	V-0, 90°C Minimum thickness: 1.5mm	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E45329
Alternate	SABIC INNOVATIVE PLASTICS B V	945 (GG)	V-0, 130°C Minimum thickness: 1.5mm	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E45329
Alternate	SABIC INNOVATIVE PLASTICS B V	HF500R(f2)	V-0, 130°C Minimum thickness: 1.5mm	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E45329
Alternate	SABIC JAPAN L L C	SE1X(GG)(f1), SE1	V-1, 110°C Minimum thickness: 1.5mm	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E207780
Alternate	SABIC JAPAN L L C	SE100	V-1, 95°C Minimum thickness: 1.5mm	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E207780
Alternate	SABIC JAPAN L L C	C2950(GG)(C)	V-0, 85°C Minimum thickness: 1.5mm	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E207780

Alternate	SABIC JAPAN L L C	CX7211	V-0, 90°C Minimum thickness: 1.5mm	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E207780
Alternate	SABIC JAPAN L L C	945	V-0, 130°C Minimum thickness: 1.5mm	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E207780
Alternate	TEIJIN CHEMICALS LTD	LN-1250P(#)(f1), LN-1250G(#)(*)	V-0, 125°C Minimum thickness: 1.5mm	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E50075
Alternate	CHI MEI CORPORATION	PC-540(Y)(a)	V-0, 85°C Minimum thickness: 1.5mm	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E56070
PCB	DAFENG AREX ELECTRONICS TECHNOLOGY CO LTD	04V0	V-0, 130°C	UL 796 ($)	UL E186016
Alternate	WALEX ELECTRONIC (WUXI) CO LTD	T2, T2A, T2B, T4	V-0, 130°C	UL 796 ($)	UL E154355
Alternate	YUANMAN PRINTED CIRCUIT CO LTD	1V0	V-0, 130°C	UL 796 ($)	UL E74757
Alternate	SUZHOU XINKE ELECTRONICS CO LTD	XK-2, XK1	V-0, 130°C	UL 796 ($)	UL E231590
Alternate	DONGGUAN HE TONG ELECTRONICS CO LTD	CEM1, 2V0, FR4	V-0, 130°C	UL 796 ($)	UL E243157
Alternate	KUNSHAN CITY HUA SHENG CIRCUIT BOARD CO LTD	HS-S	V-0, 130°C	UL 796 ($)	UL E229877
Alternate	CHEERFUL ELECTRONIC	02, 03, 03A	V-0, 130°C	UL 796 ($)	UL E199724
Alternate	JIANGSU DIFEIDA ELECTRONICS CO LTD	DFD-1	V-0, 130°C	UL 796 ($)	UL E213009
Alternate	DONGGUAN DAYSUN ELECTRONIC CO LTD	DS2	V-0, 130°C	UL 796 ($)	UL E251754
Alternate	SUZHOU CITY YILIHUA ELECTRONICS CO LTD	YLH-1	V-0, 130°C	UL 796 ($)	UL E251781

Alternate	DAFENG AREX ELECTRONICS TECHNOLOGY CO LTD	02V0, 03V0	V-0, 130°C	UL 796 ($)	UL E186016
Alternate	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DKV0-3A DGV0-3A	V-0, 130°C	UL 796 ($)	UL E177671
Alternate	KUOTIANG ENT LTD	C-2, C-2A	V-0, 130°C	UL 796 ($)	UL E227299
Alternate	PACIFIC WIN INDUSTRIAL LTD	PW-02, PW-03	V-0, 130°C	UL 796 ($)	UL E228070
Alternate	SHENZHEN TONGCHUANGXIN ELECTRONICS CO LTD	TCX	V-0, 130°C	UL 796 ($)	UL E250336
Alternate	WUJIANG SANJIANG GUANGYUAN TECHNOLOGY DEVELOPMENT CO LTD	SJ-B	V-0, 130°C	UL 796 ($)	UL E364493
Alternate	SHANGHAI H-FAST ELECTRONICS CO LTD	211001	V-0, 130°C	UL 796 ($)	UL E337862
Alternate	JIANGXI ZHONG XIN HUA ELECTRONICS INDUSTRY CO LTD	ZXH-2	V-0, 130°C	UL 796 ($)	UL E331298
Fuse (F1)	Shenzhen Lanson Electronics Co. Ltd.	SMT	T3.15A, 250V	IEC 60127-1 IEC 60127-3	VDE 40012592
Alternate	Conquer Electronics Co., Ltd.	MST	T3.15A, 250V	IEC 60127-1 IEC 60127-3	VDE 40017118
Alternate	Suzhou Walter Electronic Co. Ltd.	2010 Series(s),	T3.15A, 250V	IEC 60127-1 IEC 60127-3	VDE 40018781
Alternate	Suzhou Walter Electronic Co. Ltd.	ICP-Series	T3.15A, 250V	IEC 60127-1 IEC 60127-3	VDE 40012824
Alternate	Bel Fuse Ltd.	RST	T3.15A, 250V	IEC 60127-1 IEC 60127-3	VDE 40011144
Alternate	Cooper Bussmann LLC	SS-5	T3.15A, 250V	IEC 60127-1 IEC 60127-3	VDE 40015513
Alternate	Dongguan Better Electronics Technology Co., Ltd.	932	T3.15A, 250V	IEC 60127-1 IEC 60127-3	VDE 40033369
Alternate	Hollyland Company Limited	5ET	T3.15A, 250V	IEC 60127-1 IEC 60127-3	VDE 40015669
Alternate	Sunny East Enterprise Co. Ltd.	CFD	T3.15A, 250V	IEC 60127-1 IEC 60127-3	VDE 40030246

Alternate	Conquer Electronics Co., Ltd.	MET	T3.15A, 250V	IEC 60127-1 IEC 60127-3	VDE 40017157
Alternate	Zhongshan Lanbao Electrical Appliances Co., Ltd.	RTI-10 Serie(s)	T3.15A, 250V	IEC 60127-1 IEC 60127-3	VDE 40017009
X-Capacitor (CX1)	Ultra Tech Xiphi Enterprise Co. Ltd.	HQX	0.22µF, 275V~	IEC 60384-14	VDE 40015608
Alternate	CHENG TUNG INDUSTRIAL CO LTD	CTX	0.22µF, 350V~	UL 60384-14 (Harmonized with IEC 60384-14)	UL E193049
Alternate	Tenta Electric Industrial Co. Ltd.	MEX	0.22µF, 275V~	IEC 60384-14	VDE 119119
Alternate	Joey Electronics (Dong Guan) Co., Ltd.	MPX	0.22µF, 275V~	IEC 60384-14	VDE 40032481
Alternate	Xiangtai Electronic (Shenzhen) Co., Ltd.	MKP / MPX	0.22µF, 275V~	IEC 60384-14	VDE 40036065
Alternate	Carli Electronics Co., Ltd.	MPX	0.22µF, 275V~	IEC 60384-14	VDE 40008520
Alternate	Dain Electronics Co., Ltd.	MEX, MPX, NPX	0.22µF, 275V~	IEC 60384-14	VDE 40018798
Alternate	YUON YU ELECTRONICS CO LTD	MPX series	0.22µF, 275V~	UL 60384-14 (Harmonized with IEC 60384-14)	UL E200119
Alternate	Sinhua Electronics (Huzhou) Co., Ltd.	MPX	0.22µF, 275V~	IEC 60384-14	VDE 40014686
Alternate	Jiangsu Xinghua Huayu Electronics Co., Ltd.	MPX - Series	0.22µF, 275V~	IEC 60384-14	VDE 40022417
Alternate	Shenzhen Jinghao Capacitor Co., Ltd.	CBB62B	0.22µF, 275V~	IEC 60384-14	VDE 40018690
Alternate	Foshan Shunde Chuang Ge Electronic Industrial Co., Ltd.	MKP-X2	0.22µF, 275V~	IEC 60384-14	VDE 40008922
Alternate	Okaya Electric Industries Co. LTD	RE-Series	0.22µF, 275V~	IEC 60384-14	VDE 40028657
Alternate	Vishay Electrónica	F 1772 Series(s)	0.22µF, 275V~	IEC 60384-14	VDE 40005095

Alternate	WINDAY ELECTRONIC (DONG GUAN) CO., LTD	MPX series	0.22µF, 275V~	IEC 60384-14	VDE 40018071
Y-Capacitor (CY1)	Success Electronics Co., Ltd.	SB	500V~, 1000pF	IEC 60384-14	VDE 40037221
Alternate	Success Electronics Co., Ltd.	SB	500V~, 1000pF	IEC 60384-14	VDE 40020001
Alternate	Success Electronics Co., Ltd.	SE	500V~, 1000pF	IEC 60384-14	VDE 40037211
Alternate	Success Electronics Co., Ltd.	SE	500V~, 1000pF	IEC 60384-14	VDE 40020002
Alternate	TDK Corporation,	CD	250V~, 1000pF	IEC 60384-14	VDE 40029780
Alternate	Walsin Technology Corp.	AH	400V~, 1000pF	IEC 60384-14	VDE 40001804
Alternate	Haohua Electronic Co.	CT 7	500V~, 1000pF	IEC 60384-14	VDE 40003902
Alternate	Xiangtai Electronic (Shenzhen) Co., Ltd.	YO-series	400V~, 1000pF	IEC 60384-14	VDE 40036880
Alternate	JUHONG ELE COMPANY	JB- series	400V~, 1000pF	UL 60384-14 (Harmonized with IEC 60384-14)	UL E253194
Alternate	Murata Mfg. Co., Ltd.	KX	300V~, 1000pF	IEC 60384-14	VDE 40002831
Alternate	JYA-NAY Co., Ltd.	JN	400V~, 1000pF	UL 60384-14 (Harmonized with IEC 60384-14)	UL E201384
Alternate	Jyh Chung Electronic Co., Ltd.	JD	400V~, 1000pF	IEC 60384-14	VDE 137027
Alternate	Welson Industrial Co., Ltd.	WD	500V~, 1000pF	IEC 60384-14	VDE 40016157
Varistor (MOV1)	Success Electronics Co., Ltd	SVR10D471K	Max. Continuous voltage: 300Vrms, 385Vdc	IEC 61051-2	VDE 40030401
Alternate	Thinking Electronic Industrial Co., Ltd.	TVR10471K, TVR14471K	Max. Continuous voltage: 300Vrms,385Vdc	IEC 61051-2	VDE 005944

Alternate	Centra Science Corp	CNR-10D471K, CNR-14D471K	Max. Continuous voltage: 300Vrms, 385Vdc	IEC 61051-2	VDE 40008220
Alternate	Success Electronics Co., Ltd	SVR14D471K	Max. Continuous voltage: 300Vrms, 385Vdc	IEC 61051-2	VDE 40030401
Alternate	Walsin Technology Corp.	VZ10D471K, VZ14D471K	Max. Continuous voltage: 300Vrms, 385Vdc	IEC 61051-2	VDE 40010090
Alternate	HuiZhou Lien Shun Electronic Co., Ltd.	10D471K, 14D471K	Max. Continuous voltage: 300Vrms, 385Vdc	IEC 61051-2	VDE 40005858
Alternate	Ceramate Techn. Co., Ltd.	10D471K, 14D471K	Max. Continuous voltage: 300Vrms, 385Vdc	IEC 61051-2	VDE 40031745
Alternate	Brightking (Shenzhen) Co., Ltd.	14D471K, 10D471K	Max. Continuous voltage: 300Vrms, 385Vdc	IEC 61051-2	VDE 40027827
Alternate	Joyin Co., Ltd.	JVT10N471K, JVT14N471K	Max. Continuous voltage: 300Vrms, 385Vdc	IEC 61051-2	VDE 005937
Photo coupler (U3)	Lite-On Technology Corporation	LTV-817	Dti=0.8mm Int., EXT dcr=7.8mm	IEC 60747-5-5	VDE 40015248
Alternate	Everlight Electronics Co., Ltd.	EL817	DTI: ≥0.4mm Ext. Cr: ≥7.0	EN 60747-5-5 (Harmonized with IEC 60747-5-5)	VDE 132249
Alternate	Fairchild Semiconductor Pte Ltd.	H11A817B, FOD817B	DTI: ≥0.4mm Ext. Cr: ≥7.0	IEC 60747-5-5	VDE 40026857
Alternate	Sharp Corporation	PC817	DTI: ≥0.4mm Ext. Cr: ≥6.4	IEC 60747-5-5	VDE 40008087
Alternate	Bright Led Electronics Corp.	BPC-817 (A/B/C/D/L), BPC-817 S	DTI: ≥0.4mm Ext. Cr: ≥7.6mm	IEC 60747-5-5	VDE 40007240
Alternate	Bright Led Electronics Corp.	BPC-817 M	DTI: ≥0.4mm Ext. Cr: ≥8.0mm	IEC 60747-5-5	VDE 40007240
Alternate	Toshiba Electronic Devices & Storage Corporation	TLP781F	DTI: ≥0.4mm Ext. Cr: ≥5.20mm	EN 60747-5-5 (Harmonized with IEC 60747-5-5)	VDE 40021173

Alternate	COSMO Electronics Corporation	K1010 / KP1010	DTI: ≥0.4mm Ext. Cr: ≥6.5mm	EN 60747-5-5 (Harmonized with IEC 60747-5-5)	VDE 101347
Internal earthing wire	KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIES CO LTD	Style 1007	80°C, 300Vac ($0.8230mm^2$)	UL 758 ($)	UL E237831
Alternate	KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIES CO LTD	Style 1185	80°C, 300Vac ($0.8230mm^2$)	UL 758 ($)	UL E237831
Alternate	KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIES CO LTD	Style 1015	105°C, 600Vac ($0.8230mm^2$)	UL 758 ($)	UL E237831
Alternate	ZHUANG SHAN CHUAN ELECTRICAL PRODUCTS (KUNSHAN) CO LTD	Style 1007, Style 1185	80°C, 300Vac ($0.8230mm^2$)	UL 758 ($)	UL E333601
Alternate	ZHUANG SHAN CHUAN ELECTRICAL PRODUCTS (KUNSHAN) CO LTD	Style 1015	105°C, 600Vac ($0.8230mm^2$)	UL 758 ($)	UL E333601
Alternate	DONGGUAN CHUANTAI WIRE PRODUCTS CO LTD	Style 1007, Style 1185	80°C, 300Vac ($0.8230mm^2$)	UL 758 ($)	UL E315628
Alternate	DONGGUAN CHUANTAI WIRE PRODUCTS CO LTD	Style 1015	105°C, 600Vac ($0.8230mm^2$)	UL 758 ($)	UL E315628
Alternate	YONG HAO ELECTRICAL INDUSTRY CO LTD	Style 1007, Style 1185	80°C, 300Vac ($0.8230mm^2$)	UL 758 ($)	UL E240426
Alternate	YONG HAO ELECTRICAL INDUSTRY CO LTD	Style 1015	105°C, 600Vac ($0.8230mm^2$)	UL 758 ($)	UL E240426
Alternate	DONGGUAN GUNEETAL WIRE & CABLE CO LTD	Style 1007, Style 1185	80°C, 300Vac ($0.8230mm^2$)	UL 758 ($)	UL E204204
Alternate	DONGGUAN GUNEETAL WIRE & CABLE CO LTD	Style 1015	105°C, 600Vac ($0.8230mm^2$)	UL 758 ($)	UL E204204
Alternate	SHENG YU ENTERPRISE CO LTD	Style 1007, Style 1185	80°C, 300Vac ($0.8230mm^2$)	UL 758 ($)	UL E219726
Alternate	SHENG YU ENTERPRISE CO LTD	Style 1015	105°C, 600Vac ($0.8230mm^2$)	UL 758 ($)	UL E219726

Alternate	KUNSHAN XINGHONGMENG ELECTRONIC CO LTD	Style 1007, Style 1185	80°C, 300Vac (0.8230mm^2)	UL 758 ($)	UL E315421
Alternate	KUNSHAN XINGHONGMENG ELECTRONIC CO LTD	Style 1015	105°C, 600Vac (0.8230mm^2)	UL 758 ($)	UL E315421
Alternate	SUZHOU YEMAO ELECTRONIC CO LTD	Style 1007, Style 1185	80°C, 300Vac (0.8230mm^2)	UL 758 ($)	UL E353532
Alternate	SUZHOU YEMAO ELECTRONIC CO LTD	Style 1015	105°C, 600Vac (0.8230mm^2)	UL 758 ($)	UL E353532
Internal earthing wire Tubing	GUANGZHOU KAIHENG ENTERPRISE GROUP	K-2	125°C, 300Vrms	UL 224 ($)	UL E214175
Alternate	SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD	RSFR	125°C, 600Vrms	UL 224 ($)	UL E203950
Alternate	SHENZHEN WOER HEATSHRINKABLE MATERIAL CO LTD	RSFR-H, RSFR-HPF	125°C, 600Vrms	UL 224 ($)	UL E203950
Alternate	QIFURUI ELECTRONICS CO	QFR-h	125°C, 600Vrms	UL 224 ($)	UL E225897
Alternate	DONGGUAN SALIPT CO LTD	SALIPT S901-300	125°C, 300Vrms	UL 224 ($)	UL E209436
Alternate	DONGGUAN SALIPT CO LTD	SALIPT S901-600	125°C, 600Vrms	UL 224 ($)	UL E209436
Alternate	GUANGZHOU KAIHENG ENTERPRISE GROUP	K-2	125°C, 300Vrms	UL 224 ($)	UL E214175
Alternate	GUANGZHOU KAIHENG ENTERPRISE GROUP	K-2 (CB)	125°C, 600Vrms	UL 224 ($)	UL E214175
Alternate	CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-HFT	125°C, 600Vrms	UL 224 ($)	UL E180908
Alternate	SHENZHEN WOLIDA TRADING CO LTD	RSFR-H	125°C, 600Vrms	UL 224 ($)	UL E329530
Power Plug	I-Sheng Manufacturing (Song Gang) Factory	SP-81A	10A, 250V~	IS 1293: 2005	BIS CM/L-4036041
Alternate	Longwell Company Song Gang Factory	LP-67	10A, 250V~	IS 1293:2005	BIS CM/L-4009947
Power cord	I-Sheng Manufacturing (Song Gang) Factory	PVC insulated	3x 0.75mm^2, 1100V	IS 694:2010	BIS CM/L- 4035948
Alternate	Longwell Company Song Gang Factory	PVC insulated cable	3x 0.75mm^2, 1100V	IS 694:2010	BIS CM/L-4009846

Connector	I-Sheng Electric Wire & Cable Co., Ltd.	IS-14	10A, 250V~	IEC 60320-1:2015	VDE 40037879
Alternate	Longwell Company	LS-18	2.5A, 250V~	IEC 60320-1:2015	VDE 40028166
Appliance inlet	Zhejiang LECI Electronics Co., Ltd	DB-14	10A, 250Vac	IEC 60320-1, IEC 60320-3	VDE 40032137
Alternate	Rich Bay Co., Ltd.	R-301SN	10A, 250Vac	IEC 60320-1	VDE 40030228
Alternate	Sun Fair Electric Wire & Cable (HK) Co. Ltd.	S-03	10A, 250Vac	IEC 60320-1	VDE 40034447
Alternate	TECX	TU-301-S, TU-301-SP	10A, 250Vac	EN 60320-1, EN 60320-3 (Harmonized with IEC 60320-1 & IEC 60320-3)	ENEC License no.: ENEC-01898
Alternate	Rong Feng Industrial Co., Ltd.	SS-120	10A, 250Vac	IEC 60320-1	VDE 40028101
Alternate	INALWAYS	0711 series	10A, 250Vac	EN 60320-1 (Harmonized with IEC 60320-1)	ENEC License no.: 2016019 A1
Alternate	Zhe Jiang Bei Er Jia Electronic Co., Ltd	ST-A01-003J	10A, 250Vac	IEC 60320-1	VDE 40013388
Transformer (T1)	WUXI HAOPUWEI ELECTRONICS CO., LTD.	TF051	Class B	IS 13252 (Part 1): 2010 + A1: 2013 +A2:2015 / IEC 60950-1: 2005 +A1:2009 + A2: 2013	Tested within Equipment
Electrical Insulation system	GLOBTEK INC	GTX-130-TM	Class 130 (B)	UL 1446 ($)	UL E243347
Alternate	Wuxi Haopuwei Electronics Co Ltd	ZT-130	Class 130 (B)	UL 1446 ($)	UL E315275
Alternate	Shan Dong Boam Electric Co Ltd	BOAM-01, B1	Class 130 (B)	UL 1446 ($)	UL E252329
Alternate	ENG ELECTRIC CO LTD	ENG130-1	Class 130 (B)	UL 1446 ($)	UL E308897
Triple Insulated Wire	Great Leoflon Industrial Co., Ltd.	TRW (B) Serie(s)	130°C	IEC 60950-1: 2005 +A1:2009 + A2: 2013	VDE 136581
Alternate	KBI COSMOLINK CO., LTD.	TIW-M Serie(s)	130°C	IEC 62368-1	VDE 138053
Alternate	Furukawa Electric Co., Ltd.	TEX-E	130°C	IEC 62368-1	VDE 006735

Alternate	Totoku Electric Co. Ltd.	TIW-2	130°C	IEC 60950-1: 2005 +A1:2009 + A2: 2013	VDE 40005152
Alternate	E&B TECHNOLOGY CO LTD	E&B-XXXB E&B-XXXB-1	130°C	IEC 62368-1	VDE 40023473
Alternate	SHENZHEN JIUDING NEW MATERIAL CO LTD	DTFW-B	130°C	IEC 62368-1	VDE 40037495
Bobbin	CHANG CHUN PLASTICS CO LTD	T375HF	V-0, 150°C	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E59481
Alternate	CHANG CHUN PLASTICS CO LTD	T375J(G5)(G6)	V-0, 150°C	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E59481
Alternate	CHANG CHUN PLASTICS CO LTD	4130	V-0, 140°C	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E59481
Alternate	SUMITOMO BAKELITE CO LTD	PM-9820	V-0, 150°C	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E41429
Alternate	HITACHI CHEMICAL TECHNO SERVICE CO LTD	CP-J-8800	V-0, 150°C	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E514814
Insulating tape	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1 (b)	130°C	UL 510A ($)	UL E17385
Alternate	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350T-1 (b), 44 (a)	130°C	UL 510A ($)	UL E17385
Alternate	BONDTEC PACIFIC CO LTD	370S (b)	130°C	UL 510A ($)	UL E175868
Alternate	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ* (b), CT* (b)(g), WF* (c)(h)	130°C	UL 510A ($)	UL E165111
Alternate	JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A (b)	130°C	UL 510A ($)	UL E246950
Alternate	CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX*	130°C	UL 510A ($)	UL E246820

Tubing	GREAT HOLDING INDUSTRIAL CO LTD	TFT/TFS/TFL	Min. 150Vrms, 200°C	UL 224 ($)	UL E156256
Alternate	SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD	WF	600Vrms, 200°C	UL 224 ($)	UL E203950
Alternate	CHANGYUAN ELECTRONICS GROUP CO LTD	CB-TT-T	300Vrms, 200°C	UL 224 ($)	UL E180908
Alternate	CHANGYUAN ELECTRONICS GROUP CO LTD	CB-TT-S	600Vrms, 200°C	UL 224 ($)	UL E180908
Inductor (LF1)	GlobTek (Suzhou) Co. Ltd	LF007	L (1-2) = 17mH L (3-4) = 17mH	IS 13252 (Part 1): 2010 + A1: 2013 +A2:2015 / IEC 60950-1: 2005 +A1:2009 + A2: 2013	Tested with appliance
Bobbin	CHANG CHUN PLASTICS CO LTD	T375J(G5)(G6)	V-0, 150°C	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E59481
Insulation tape	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	CT-280B	130°C	UL 510A ($)	UL E165111

Supplementary information:

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

($): No equivalent IEC standard available

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1.6.2	TABLE: Electrical data (in normal conditions)					P
U (V)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/status
90	0.761	--	40.94	F1	0.761	Maximum normal load at 50Hz
100	0.699	1	40.57	F1	0.699	
240	0.424	1	39.34	F1	0.424	
254.4	0.412	--	39.29	F1	0.412	
90	0.779	--	40.88	F1	0.779	Maximum normal load at 60Hz
100	0.719	1	40.53	F1	0.719	
240	0.428	1	39.21	F1	0.428	
254.4	0.416	--	39.23	F1	0.416	
Supplementary information: Maximum normal load is obtained by operating the equipment at rated output.						

2.1.1.5	TABLE: Energy hazard measurement				P
Voltage (rated) (V)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)	
48Vdc	0.75A	47.694	1.062	49.50	
Supplementary information:					

2.1.1.7	TABLE: Discharge test			P
Condition	τ calculated (s)	τ measured (s)	t u→ 0V (s)	Comments
Line to neutral	--	20.0ms	--	Vpeak: 272V 37% of Vpeak: 100.64V Voltage after 1 sec decayed to 0V
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.	
Transformer (T1)	Pin B – Functional Earth	37.42	--	--
After Transformer (T1)	Diode (D4)	--	20	--
After Transformer (T1)	Capacitor (C4)	--	20	--
After Transformer (T1)	Capacitor (C5)	--	20	
Supplementary information:				

2.2.3	TABLE: SELV measurement (under fault conditions)		P
Location		Voltage (max.) (V)	Comments
Transformer T1 (Pin B – Functional Earth) (short-circuited)		0.00	--
Diode (D4) (short-circuited)		0.00	--
Capacitor (C4) (short-circuited)		0.00	--
Capacitor (C5) (short-circuited)		0.00	--
Supplementary information:			

2.4.2	TABLE: Limited current circuit measurement				P
Location	Voltage (V)	Current (mA)	Freq. (kHz)	Limit (mA)	Comments
Y-Capacitor (CY1)	1.049	0.525	0.05	0.7	--
Supplementary information: Non inductive 2000 Ω Resistor used.					

2.5	TABLE: Limited power source measurement		P
	Limits	Measured	Verdict
According to Table 2B/~~2C~~ (normal condition) U_{OC}: 47.687Vdc (Location: Data + Power Rj45 port rear side)			
current (in A)	≤ 8	1.064	P
apparent power (in VA)	≤ 100	50.739	P
According to Table 2B/~~2C~~ (single fault condition) (Output: S-C) (Location: Data + Power Rj45 port rear side)			
current (in A)	≤ 8	0.00	P
apparent power (in VA)	≤ 100	0.00	P
Supplementary information: S-C: Short-Circuit. RJ45 Data port is for data transmission only.			

2.6.3.4	TABLE: Resistance of earthing measurement		N/A
Location	Resistance measured (mΩ)	Comments	
---	---	--	
Supplementary information: Only functional provided.			

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2.10.2	Table: Working voltage measurement	P

Location	RMS voltage (V)	Peak voltage (V)	Comments
Line to neutral	236	340	--
Line to Functional Earth	236	340	--
Transformer (T1)			
Pin 5 – Pin A	132	280	--
Pin 5 – Pin B	114	220	--
Pin 5 – Pin C	113	220	--
Pin 3 – Pin A	125	350	--
Pin 3 – Pin B	260	460	--
Pin 3 – Pin C	268	482	Max. Vrms and Max. Vpeak
Pin 1 – Pin A	133	280	--
Pin 1 – Pin B	114	220	--
Pin 1 – Pin C	114	210	--
Pin 2 – Pin A	121	250	--
Pin 2 – Pin B	116	270	--
Pin 2 – Pin C	118	290	--
Photocoupler (U3)			
Pin 1 – Pin 3	114	210	--
Pin 2 – Pin 4	115	210	--
Y-Capacitor (CY1)	114	210	--
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:						
---	---	---	---	---	---	---
Basic / supplementary:						
Line to Functional Earth	340	236	2.0	4.20	2.5	4.20
Line to neutral before Fuse	340	236	1.5	4.10	2.5	4.10
Reinforced:						
Transformer (T1) (Pri. – Sec.)	482	268	4.27	19.24	6.4	19.24
Y-Capacitor (CY1)	210	114	4.0	9.43	4.0	9.43
Photocoupler (U3) (Pri.- Sec.)	210	115	4.0	9.89	4.0	10.58
Supplementary information: Pri.: Primary; Sec.: Secondary						

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	236	3000	0.4	1.5
Supplementary information: Certified Photocoupler Used (see appended table 1.5.1)					

4.3.8	TABLE: Batteries	N/A
The tests of 4.3.8 are applicable only when appropriate battery data is not available	No Batteries used	N/A
Is it possible to install the battery in a reverse polarity position?	No Batteries 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 Batteries used	N/A
- Explosion of the battery	No Batteries used	N/A
- Emission of flame or expulsion of molten metal	No Batteries used	N/A
- Electric strength tests of equipment after completion of tests	No Batteries used	N/A
Supplementary information: No 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: 90Vac, 50Hz	B: 254.4Vac, 50Hz
t_{amb1} (°C):	A: 24.1 B:23.8	t_{amb2} (°C):	A: 23.8 B:23.6

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)	
Appliance inlet	4.57	4.29	44.57	44.29	95
PCB near Fuse	21.46	21.08	61.46	61.08	130
PCB near Y- Capacitor (CY1)	23.12	22.97	63.12	62.97	130
Transformer (T1) coil	34.69	34.81	74.69	74.81	110
Inductor (LF1) coil	29.84	29.62	69.84	69.62	110
Top Enclosure (Plastic)	11.78	11.64	51.78	51.64	85
RJ45 Data port body (metallic)	3.19	3.03	43.19	43.03	70

Supplementary information:

1) The EUT is loaded as per maximum normal loaded condition.

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:

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 material used (see appended table 1.5.1)

4.6.1, 4.6.2	Table: Enclosure opening measurements	N/A

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

Supplementary information:

4.7	Table: Resistance to fire				N/A
Part	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence
--	--	--	--	--	--
Supplementary information: certified materials used (see appended table 1.5.1)					

5.1.6	TABLE: Touch current and protective conductor current measurement						P
	Test voltage (V) ..... :	254.4Vac, 50Hz					—
Measurement location		Polarity (normal) [mA]		Polarity (reverse) [mA]		Limit (mA)	Comments
(Terminal A connected to...)		Switch: ON	Switch: OFF	Switch: ON	Switch: OFF		
Plastic enclosure wrapped with metal foil		0.028	--	0.025	--	0.25	Within limits
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
Functional:				
---		---	---	---
Basic / supplementary:				
---		---	---	---
Reinforced:				
Line-neutral shorted to output		AC	3000	No
Line-Neutral shorted to plastic enclosure wrapped in metal foil		AC	3000	No
Thin sheet material		AC	3000	No
Supplementary information:				

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5.3	TABLE: Fault condition tests		P
	Ambient temperature (°C) ..... :	24.8°C	—
	Power source for EUT: Manufacturer, model/type, output rating ..... :	(See appended table 1.5.1)	—

Component No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (A)	Observation
Transformer (T1)	Overload	90Vac, 50Hz	1 hour 38 mins.	-	-	EUT working normally, Ambient temperature: 24.8°C Temperature rise on: Transformer coil (T1): 38.75°C Top Enclosure (Plastic): 13.92°C Inductor (LF3) coil: 34.73°C PCB near Fuse: 27.93°C PCB near Y-Capacitor (CY1): 27.23°C No damage or hazard seen during /after the test.
Transformer (T1) (Pin A - Pin C)	Short-circuited	90Vac, 50Hz	3 seconds	--	--	Unit shut down. No damage, No hazard.
Transformer (T1) (Pin 5- pin 1)	Short-circuited	90Vac, 50Hz	3 seconds	--	--	Unit shut down. No damage, No hazard.
Diode (D4)	Short-circuited	90Vac, 50Hz	3 seconds	--	--	Unit shut down. No damage, No hazard.
Capacitor (C4)	Short-circuited	90Vac, 50Hz	3 seconds	--	--	Unit shut down. No damage, No hazard.
Bulk Capacitor (C19)	Short-circuited	90Vac, 50Hz	3 seconds			Fuse F1 opened. No fire. No hazard.
Supplementary information:						

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C.2	TABLE: Insulation of transformers		P
	Transformer part name..... :	T1	—
	Manufacturer ..... :	(see appended table 1.5.1)	—
	Type..... :	(see appended 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)	482	268	4.27	T.I.W used in secondary winding	6.4	T.I.W used in secondary winding
Primary/input winding and core (internal)			2.0	17.21	3.2	17.21
Secondary/output winding and core (internal)			4.27	T.I.W used in secondary winding	6.4	T.I.W used in secondary winding
Primary/input part and secondary/output part (external)			4.27	19.40	6.4	19.40
Primary/input part and core (external)			2.0	9.68	3.2	9.68
Primary/input part and secondary/output winding (external)			4.27	T.I.W used in secondary winding	6.4	T.I.W used in secondary winding
Secondary/output part and core (external)			2.0	9.68	3.2	9.68
Secondary/output part and primary/input winding (external)			4.27	19.40	6.4	19.40

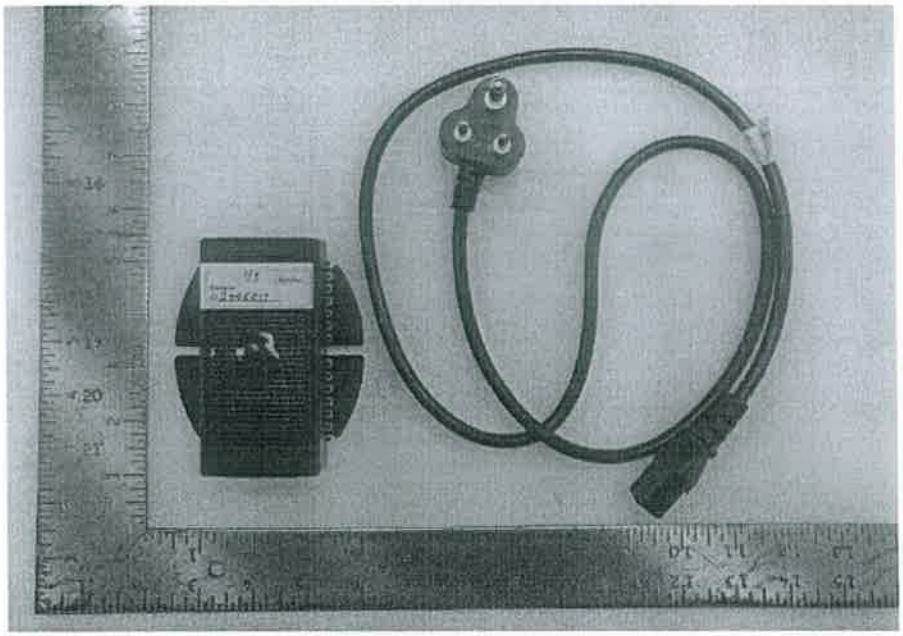
Description of design:	
(a) Bobbin	
Primary/input pins..... :	1-2, 3-4-5
Secondary/output pins..... :	A-B-C
Material (manufacturer, type, ratings)..... :	(See appended table 1.5.1)
Thickness (mm) ..... :	0.57 mm
(b) General	
Supplementary information:--	

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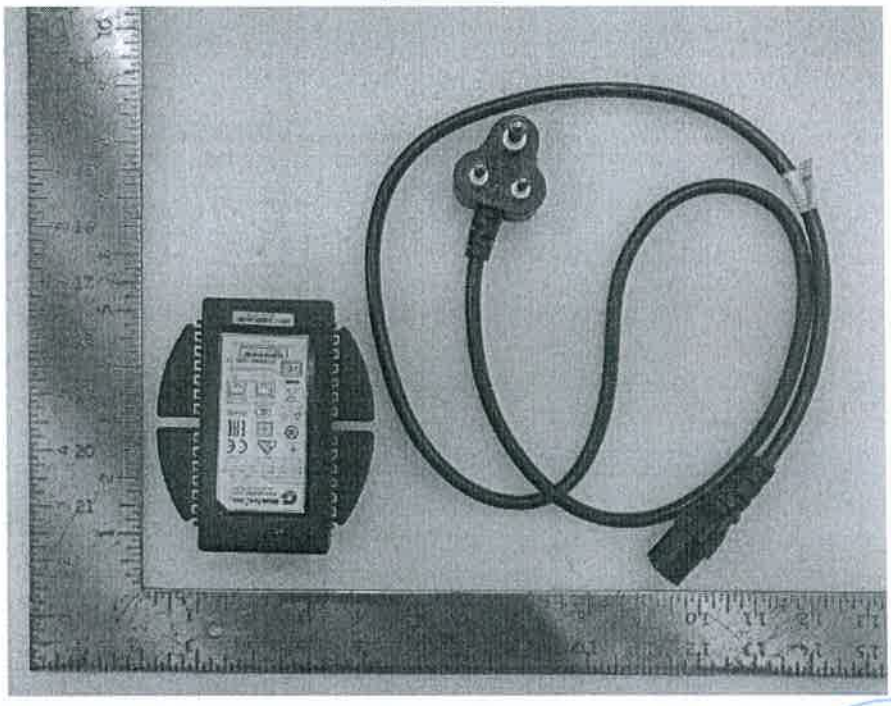
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Photo Documents:

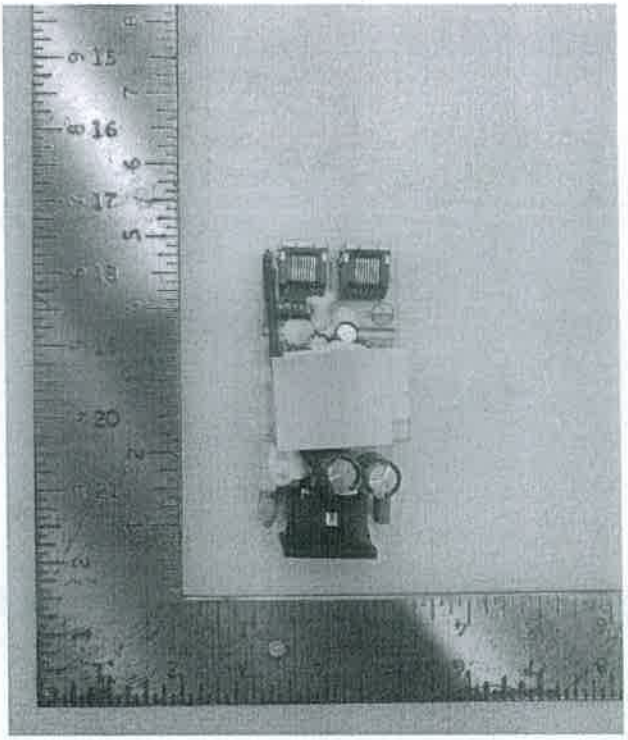
Front View



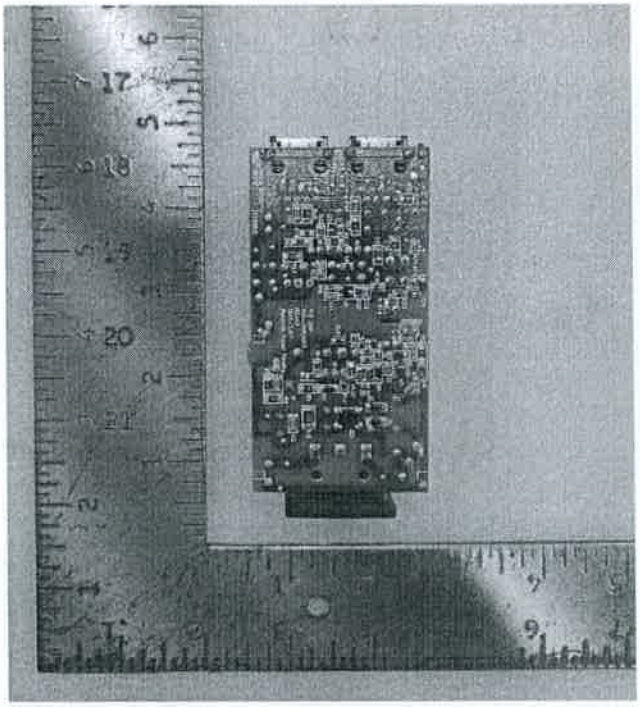
Rear View



PCB View1



PCB View2



End of Test Report