

SUMMARY OF TEST REPORT

TEST REPORT NO: ATS/201106/02

DATE: 19/11/2020

ULR-TC543320000000935P

DISCIPLINE: ELECTRONICS

GROUP: SAFETY TESTING

(Number of Pages in Test Report: Page No. 1 to 107)

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

1. Name of the Manufacturer: GlobTek (Suzhou) Co., Ltd

2. Product: ITE POWER SUPPLY (Power Adaptor for IT Equipment)

3. Model: GT-83084-0806-0.8-USB-W2IN



4. Trademark:

5. Model differences provided (if applicable): N/A

6. Model differences verified as per MEITY Guidelines for series formulation: N/A

7 Test Results: Refer below

PART A: GENERAL

SL. NO.	TEST REQUIREMENT	TEST CODE	CLAUSE	VERDICT
1.	Components	EL 2100	1.5	P
2.	Power interface	EL 2101	1.6	P
3.	Markings and instructions	EL 2102	1.7	P

PART B: PROTECTION FROM HAZARDS

SL. NO.	TEST REQUIREMENT	TEST CODE	CLAUSE	VERDICT
1.	Protection from electric shock and energy hazards	EL 2103	2.1	P
2.	SELV circuits	EL 2104	2.2	P
3.	TNV circuits	EL 2105	2.3	N/A
4.	Limited current circuits	EL 2106	2.4	P
5.	Limited power source	EL 2107	2.5	P
6.	Provisions for earthing and bonding	EL 2108	2.6	N/A
7.	Overcurrent and earth fault protection in primary circuits	EL 2109	2.7	P
8.	Safety interlocks	EL 2110	2.8	N/A
9.	Electrical insulation	EL 2111	2.9	P
10.	Clearances, creepage distance and distances through insulation	EL 2112	2.10	P



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PART C: WIRING, CONNECTIONS AND PHYSICAL REQUIREMENTS

SL. NO	TEST REQUIREMENT	TEST CODE	CLAUSE	VERDICT
1.	Wiring, connections and supply	EL 2113	3.1	N/A
2.	Connection to a mains supply	EL 2114	3.2	P
3.	Wiring terminals for connection of external conductors	EL 2115	3.3	N/A
4.	Disconnections from the main supply	EL 2116	3.4	P
5.	Interconnection of equipment	EL 2117	3.5	P
6.	Stability	EL 2118	4.1	N/A
7.	Mechanical strength	EL 2119	4.2	P
8.	Design and construction	EL 2120	4.3	P
9.	Protection against hazardous moving parts	EL 2121	4.4	N/A
10.	Thermal requirements	EL 2122	4.5	P
11.	Openings in enclosures	EL 2123	4.6	N/A
12.	Resistance to fire	EL 2124	4.7	P

PART D: ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS

SL. NO.	TEST REQUIREMENT	TEST CODE	CLAUSE	VERDICT
1.	Touch current and protective conductor current	EL 2125	5.1	P
2.	Electric strength	EL 2126	5.2	P
3.	Abnormal operating and fault conditions	EL 2127	5.3	P

PART E: CONNECTION TO TELECOM AND CABLE DISTRIBUTION SYSTEM

SL. NO.	TEST REQUIREMENT	TEST CODE	CLAUSE	VERDICT
1.	Protection of telecommunication network service persons and users of other equipment connected to the network, from hazards in the equipment	EL 2128	6.1	N/A
2.	Protection of equipment users from overvoltages on telecommunication networks	EL 2129	6.2	N/A
3.	Protection of the telecommunication wiring system from overheating	EL 2130	6.3	N/A
4.	Connection to cable distribution systems	EL 2131	7	N/A



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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 components.

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
- 2.) Sample fails to meet the following test requirements.

I, hereby undertake that the verdict stated in the test reports for all the test matches with the test results. The sample meets all relevant requirements IS 13252 (PART 1): 2010+A1:2013+A2:2015/ IEC 60950-1:2005 +A1: 2009+A2:2013/ does not meet the requirements. If any deviation found, suitable punitive action may be taken by BIS.

Date: 19/11/2020


(Signature of Authorized person with Stamp)

YAD RAM
Head - Laboratory






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Manufacturer:	GlobTek (Suzhou) Co., Ltd No. 76, Jinling East Road, Suzhou Industrial Park, China		
Test item:	ITE POWER SUPPLY (Power Adaptor for IT Equipment)		
Identification:	Model: GT-83084-0806-0.8-USB-W2IN	Serial No.: Nil	
Receipt No.:	201106/02	Date of receipt:	06/11/2020
Testing laboratory and its address:	Accurate Test Solutions F-21 Sector- 11, Noida-201301, U.P.,(INDIA)		
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.		
Other Aspects:	This test report consists of 107 pages.		
This test report relates to the test sample submitted and list of documents attached.			

Tested by:	Approved by / Authorized Signatory:	Issued by:
		
Testing Engineer: Raju Kumar	Head of Laboratory: Yad Ram	Technical Manager : Subhash
Date: 19/11/2020	Date: 19/11/2020	Date: 19/11/2020



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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 Adapter for IT Equipment”

Report Reference No.: **ATS/201106/02**

Date of issue: 19/11/2020

Total number of pages: 107

Testing Laboratory: **Accurate Test Solutions**

Address: F-21, Sector-11, Noida-201301, U.P., (INDIA)

Manufacturer's name: **GlobTek (Suzhou) Co., Ltd**

Address: No. 76, Jinling East Road, Suzhou Industrial 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

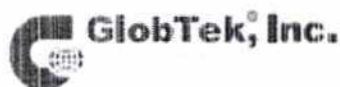
Test Report Form No.: **BIS_IT/PA_IS13252_V1.3**

Test Report Form(s) Originator: Bureau of Indian Standards

Master TRF: 03/06/2016


Test item description: **ITE POWER SUPPLY (Power Adaptor for IT Equipment)**

Trade Mark:



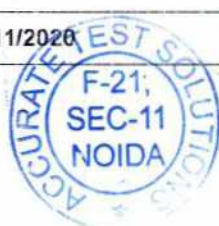
Model/Type reference: **Model: GT-83084-0806-0.8-USB-W2IN**

Ratings: Input: 100-240V~ 50/60Hz, 0.3A

Output: 5.2V  1.5A 7.8W

Other Documents submitted: Please refer to Table – List of Attachments at Page No. 08

Tested by:	Approved by / Authorized Signatory:	Issued by:
		
Testing Engineer: Raju Kumar	Head of Laboratory: Yad Ram	Technical Manager : Subhash
Date: 19/11/2020	Date: 19/11/2020	Date: 19/11/2020



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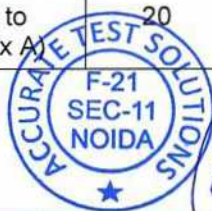
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Test Code	Description	Measurement/ testing	Total No. of tests	Total no. of applicable tests/ Req.	No. of tests/ Req. passed	Page No.
EL 2100	General Requirements	Components (Cl.1.5)	18	05	05	11-12
EL 2101	General Requirements	Power interface (Cl.1.6)	05	04	04	13
EL 2102	Marking Requirements	Marking & instructions(Cl.1.7)	39	15	15	14-16
EL 2103	Electrical safety	Protection from electric shock and energy hazards (Cl.2.1)	14	04	04	17-18
EL 2104	Electrical safety	SELV Circuits (Cl.2.2)	04	04	04	19
EL 2105	Electrical safety	TNV Circuits (Cl.2.3)	12	00	N/A	20
EL 2106	Electrical safety	Limited current circuits (Cl.2.4)	04	04	04	21
EL 2107	Electrical safety	Limited Power sources (Cl.2.5)	07	03	03	22
EL 2108	Electrical safety	Provisions for earthing and bonding (Cl.2.6)	19	00	N/A	23-24
EL 2109	Electrical safety	Overcurrent and earth fault protection in primary circuits (Cl.2.7)	07	04	04	25
EL 2110	Electrical safety	Safety Interlocks (Cl.2.8)	13	00	N/A	26
EL 2111	Electrical safety	Electrical Insulation (Cl.2.9)	05	05	05	27
EL 2112	Electrical safety	Clearances, Creepage distances and distances through insulation (Cl.2.10)	63	27	27	28-31
EL 2113	Wiring	Wiring, connections and supply (Cl.3)	11	01	01	32
EL 2114	Wiring	Connection to a main supply (Cl.3.2)	14	02	02	33-34
EL 2115	Wiring	Wiring terminals for connection of external conductors (Cl.3.3)	09	00	N/A	35
EL 2116	Wiring	Disconnection for the main supply (Cl.3.4)	12	04	04	36



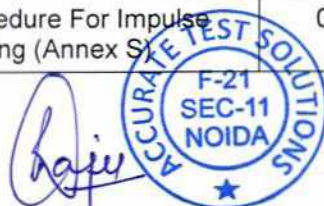
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EL 2117	Wiring	Interconnection of equipment (Cl.3.5)	05	03	03	37
EL 2118	Mechanical properties	Stability (Cl.4.1)	04	00	N/A	38
EL 2119	Mechanical properties	Mechanical strength (Cl.4.2)	13	06	06	39
EL 2120	Mechanical properties	Design and construction (Cl.4.3)	25	07	07	40-41
EL 2121	Mechanical properties	Protection against hazardous moving parts (Cl.4.4)	14	00	N/A	42
EL 2122	Thermal Properties	Thermal requirements (Cl.4.5)	06	06	06	43
EL 2123	Mechanical properties	Openings in Enclosures (Cl.4.6)	18	00	N/A	44-45
EL 2124	Fire Safety	Resistance to fire (Cl.4.7)	25	09	09	46-50
EL 2125	Insulating properties	Electrical requirements and simulated abnormal conditions(Cl.5),5.1	20	10	10	51-52
EL 2126	Insulating properties	Electric Strength (Cl.5.2)	03	03	03	53
EL 2127	Insulating properties	Abnormal operating and fault conditions (Cl.5.3)	11	07	07	54
EL 2128	Communicating connection	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment(Cl.6.1)	04	00	N/A	55-56
EL 2129	Communicating connection	Protection of equipment users from overvoltages on telecommunication networks (Cl.6.2)	06	00	N/A	57
EL 2130	Communicating connection	Protection of the telecommunication wiring system from overheating (Cl.6.3)	05	00	N/A	58-59
EL 2131	Connection to cable distribution systems	Connection to cable distribution systems (Cl.7)	08	00	N/A	60
EL 2132	Fire safety	Tests for resistance to heat and fire (Annex A)	20	02	02	61-62



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EL 2133	Insulating properties	Motor tests under abnormal conditions (Annex B)	19	00	N/A	63-64
EL 2134	Electrical Safety	Transformers (Annex C)	03	03	03	65
EL 2135	Insulating properties	Measuring Instruments For Touch-Current Tests (Annex D)	03	02	02	66
EL 2136	Thermal Properties	Temperature Rise of A Winding(Annex E)	01	00	N/A	67
EL 2137	Electrical safety	Measurement of Clearances And Creepage Distances (Annex F)	01	01	01	68
EL 2138	Electrical safety	Alternative Method For Determining Minimum Clearances (Annex G)	17	00	N/A	69-70
EL 2139	Radiation Safety	Ionizing Radiation (Annex H)	01	00	N/A	71
EL 2140	Electrical Safety	Table of electrochemical potentials (Annex J)	01	00	N/A	72
EL 2141	General Requirements	Thermal controls (Annex K)	07	00	N/A	73
EL 2142	General Requirements	Normal load conditions for some types of electrical business equipment (Annex L)	08	02	02	74
EL 2143	Electrical Safety	Criteria for telephone ringing signals (Annex M)	13	00	N/A	75
EL 2144	Electrical safety	Impulse Test Generators(Annex N)	03	00	N/A	76
EL 2145	General Requirements	Normative References (Annex P)	01	00	N/A	77
EL 2146	General Requirements	Voltage dependent resistors (VDRs) (Annex Q)	03	00	N/A	78-79
EL 2147	General Requirements	Examples Of Requirements For Quality Control Programmes (Annex R)	03	00	N/A	80
EL 2148	General Requirements	Procedure For Impulse Testing (Annex S)	04	00	N/A	81



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EL 2149	Protection against Ingress of water	Guidance on Protection Against Ingress of Water (Annex T)	01	00	N/A	82
EL 2150	Wiring	Insulated Winding Wires For Use Without Interleaved Insulation (Annex U)	17	00	N/A	83-84
EL 2151	Electrical Safety	Ac Power Distribution Systems(Annex V)	05	03	03	85
EL 2152	Electrical Safety	Summation of Touch Currents (Annex W)	08	00	N/A	86
EL 2153	Electrical Safety	Maximum Heating Effect In Transformer Tests (Annex X)	03	03	03	87
EL 2154	Radiation safety	Ultraviolet light conditioning test (Annex Y)	05	00	N/A	88
EL 2155	Electrical Safety	Overvoltage Categories (Annex Z)	01	01	01	89
EL 2156	Mechanical properties	Mandrel Test (Annex AA)	01	00	N/A	90
EL 2157	Electrical Safety	Changes In The Second Edition (Annex BB)	--	--	--	--
EL 2158	Electrical Safety	Evaluation Of Integrated Circuit (IC) Current Limiters (Annex CC)	06	00	N/A	91
EL 2159	Mechanical properties	Requirements For The Mounting Means Of Rack-Mounted Equipment (Annex DD)	04	00	N/A	92
EL 2160	Electrical Safety	Household And Home/Office Document/Media Shredders (Annex EE)	06	00	N/A	93

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


(Approving Authority)

SUBHASH
Technical Manager



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Copy of marking plate:



Marking plate of ITE POWER SUPPLY



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Table – List of Attachments

Attachment No.	Attachment Description	No. of pages in Attachment
Attachment – 1	Plug Dimension	106
Attachment – 2	Photo Document	107

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

Date of receipt of test item.....: 06/11/2020

Date(s) of performance of tests.....: 06/11/2020 to 19/11/2020

Laboratory conditions

Ambient Temperature: 25 ± 10°C

Ambient Humidity: 45 to 75% Rh



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Test item particulars ITE POWER SUPPLY (Power Adaptor for IT Equipment)

Equipment mobility ☒ movable ☐ hand-held ☒ transportable
☐ stationary ☐ for building-in ☒ direct plug-in

Connection to the mains ☒ pluggable equipment ☒ type A ☐ type B
☐ permanent connection
☐ detachable power supply cord
☐ non-detachable power supply cord
☐ not directly connected to the mains

Operating condition ☒ continuous
☐ rated operating / resting time:

Access location ☒ operator accessible
☐ restricted access location

Over voltage category (OVC) ☐ OVC I ☒ OVC II ☐ OVC III ☐ OVC IV
☐ other:

Mains supply tolerance (%) or absolute mains supply values -10%, +6%

Class of equipment ☐ Class I ☒ Class II ☐ Class III
☐ Not classified

Considered current rating of protective device as a part of the building installation (A) 16A (for India)

Pollution degree (PD) ☐ PD 1 ☒ PD 2 ☐ PD 3

IP protection class IPX0

Altitude during operation (m) Up to 4000

Altitude of test laboratory (m) < 1000

Mass of equipment (kg) 0.045Kg

Abbreviations that may be used throughout this test report:

PE/PB : protective earth/protective bonding Pri : primary

CB : circuit breaker sec : secondary

(SW)PS : (switching) power supply gnd : ground

HV : high voltage I/O : input/output

PCB : printed circuit (wiring) board ii : installation instruction

TIW : triple insulated wire PSU : Power Supply Unit

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

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



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General product information:

1) Application details / Description of the product:

The equipment under the test is Class II direct plug-in
 "ITE POWER SUPPLY (Power Adaptor for IT Equipment)",
 Model: GT-83084-0806-0.8-USB-W2IN
 having rated Input: 100-240V~ 50/60Hz, 0.3A
 Output: 5.2V **===** 1.5A 7.8W

Max. specified ambient temperature (°C): 60°C

2) Differences between the models.....: N/A

Model No. tested with-in the family series.....: N/A

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 (Please see the table 1.5.1)	P
1.5.1	General:	EL 2100-01	See below	P
	Components shall be complying with IEC 60950-1 or relevant component standard.		Component certified with relevant component standard.	P
	Components and subassemblies approved for IEC 62368-1 can be considered as complying with this standard			N/A
1.5.2	Evaluation and testing of components	EL 2100-02	Components certified to IEC standards and / or their harmonized standards are used within their ratings (see table 1.5.1)	P
1.5.3	Thermal controls	EL 2100-03	No thermal controls used	N/A
1.5.4	Transformers	EL 2100-04	See annex C	P
1.5.5	Interconnecting cables*	EL 2100-05	No interconnecting cables	N/A
1.5.6	Capacitors bridging insulation *	EL 2100-06	Certified Y capacitor used (See table 1.5.1)	P
1.5.7	Resistors bridging insulation	EL 2100-07	No such insulation	N/A
1.5.7.1	Resistors bridging functional, basic or supplementary insulation*	EL 2100-08	See above cl. no. 1.5.7	N/A
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	EL 2100-09	See above cl. no. 1.5.7	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	See above cl. no. 1.5.7	N/A
1.5.8	Components in equipment for IT power distribution systems*	EL 2100-11	Not for IT power distribution systems	N/A
1.5.9	Surge suppressors	EL 2100-12	No Surge suppressors used	N/A
1.5.9.1	General*	EL 2100-13	See above cl no. 1.5.9	N/A
1.5.9.2	Protection of VDRs*	EL 2100-14	See above cl no. 1.5.9	N/A
1.5.9.3	Bridging of functional insulation by a VDR*	EL 2100-15	See above cl no. 1.5.9	N/A



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Tests relating to General Requirements

EL 2100 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
1.5.9.4	Bridging of basic insulation by a VDR*	EL 2100-16	See above cl no. 1.5.9	N/A
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR*	EL 2100-17	See above cl no. 1.5.9	N/A

* Total number of Requirements to be observed / inspected = 10
 Total No of applicable Requirement = 02
 No of Requirements for which the sample passed: = 02

Total number of tests to be conducted : = 08
 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.


 (Approving Authority)

SUBHASH
Technical Manager



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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		P
1.6.1	AC power distribution systems*	EL 2101-01	TN power distribution systems	P
1.6.2	Input current	EL 2101-02	See table 1.6.2	P
1.6.3	Voltage limit of hand-held equipment*	EL 2101-03	Not a hand held equipment	N/A
1.6.4	Neutral conductor *	EL 2101-04	Neutral conductor is insulated from the body throughout the equipment	P

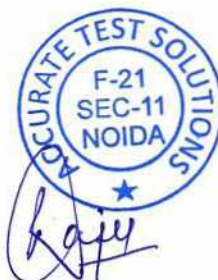
* Total number of Requirements to be observed / inspected = 04
 Total No of applicable Requirement = 03
 No of Requirements for which the sample passed: = 03

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

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


 (Approving Authority)

SUBHASH
Technical Manager



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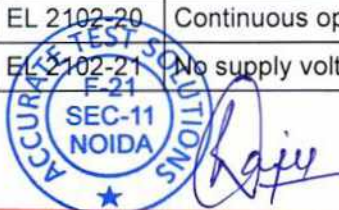
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Tests relating to Marking Requirements

EL 2102 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
1.7	Marking and instructions*	EL 2102-00		P
1.7.1	Power rating and identification markings		See below	P
1.7.1.1	Power rating marking*	EL 2102-01	See below	P
	Rated voltage(s) or voltage ranges(s) (V)*.	EL 2102-02	100-240V~	P
	Multiple mains supply connections*.	EL 2102-03	No multiple main supply connection	N/A
	Symbol for nature of supply, for d.c. only*:	EL 2102-04	AC supply	N/A
	Rated frequency or rated frequency range (Hz) *:	EL 2102-05	50/60Hz	P
	Rated current (mA or A)*:	EL 2102-06	0.3A	P
1.7.1.2	Identification markings*	EL 2102-07	See below	P
	Manufacturer's name or trade-mark or identification mark *:	EL 2102-08	 GlobTek, Inc.	P
	Model identification or type reference *:	EL 2102-09	GT-83084-0806-0.8-USB-W2IN	P
	Symbol for Class II equipment only*:	EL 2102-10	Symbol marked	P
	Other markings and symbols*:	EL 2102-11	Other markings and symbols does not give rise to misunderstanding	P
1.7.1.3	Use of graphical symbols*	EL 2102-12	Graphical symbol used	P
1.7.2	Safety instructions and marking*	EL 2102-13	See below	P
1.7.2.1	General	EL 2102-14	Safety instructions provided in instruction manual	P
1.7.2.2	Disconnect devices*	EL 2102-15	Plug is part of direct plug-in equipment, considered as disconnect device	P
1.7.2.3	Overcurrent protective devices*	EL 2102-16	Pluggable equipment TYPE A	N/A
1.7.2.4	IT power distribution systems*	EL 2102-17	Not for connection to IT power distribution systems	N/A
1.7.2.5	Operator access with a tool*	EL 2102-18	No tools required	N/A
1.7.2.6	Ozone*	EL 2102-19	No ozone generated	N/A
1.7.3	Short duty cycles*	EL 2102-20	Continuous operation	N/A
1.7.4	Supply voltage adjustment*	EL 2102-21	No supply voltage adjustment	N/A



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Tests relating to Marking Requirements

EL 2102 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
1.7.5	Power outlets on the equipment*	EL 2102-22	No standard power outlets	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	Fusible resistor is clearly and adequately marked with fusible resistor number (RF1)	P
1.7.7	Wiring terminals	EL 2102-24	See below	N/A
1.7.7.1	Protective earthing and bonding terminals*	EL 2102-25	Class II equipment	N/A
1.7.7.2	Terminals for a.c. mains supply conductors*	EL 2102-26	Not a permanently connected equipment	N/A
1.7.7.3	Terminals for d.c. mains supply conductors*	EL 2102-27	No dc mains supply	N/A
1.7.8	Controls and indicators	EL 2102-28	No controls and indicators used	N/A
1.7.8.1	Identification, location and marking*:	EL 2102-29	See above cl. no. 1.7.8	N/A
1.7.8.2	Colours*	EL 2102-30	See above cl. no. 1.7.8	N/A
1.7.8.3	Symbols according to IEC 60417*:	EL 2102-31	See above cl. no. 1.7.8	N/A
1.7.8.4	Markings using figures* :	EL 2102-32	No such 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 such components used	N/A
1.7.11	Durability	EL 2102-35	Marking were legible and durable after the test	P
1.7.12	Removable parts*	EL 2102-36	No such parts	N/A
1.7.13	Replaceable batteries*	EL 2102-37	No battery used	N/A
	Language(s)		See above	N/A
1.7.14	Equipment for restricted access locations*	EL 2102-38	Equipment not intended to installed in restricted access locations	N/A

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* Total number of Requirements to be observed / inspected = 35
Total No of applicable Requirement = 14
No of Requirements for which the sample passed: = 14

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

Certificate: It is certified that the above tests were performed and found to be passing/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		P
2.1.1	Protection in operator access areas*	EL 2103-01	Complies	P
2.1.1.1	Access to energized parts	EL 2103-02	Complies	P
	Test by inspection :		No hazardous parts are accessible to user	P
	Test with test finger (Figure 2A)		No access to any parts at hazardous voltage with the test finger	P
	Test with test pin (Figure 2B):		The test pin cannot touch bare hazardous parts	P
	Test with test probe (Figure 2C)		Complies	P
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 ELV wiring	N/A
	Working voltage (V _{peak} or V _{rms}); 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 hazardous voltage circuit wiring	N/A
2.1.1.5	Energy hazards :	EL 2103-06	No hazardous energy level (see 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		No such construction	N/A
	Measured voltage (V); time-constant (s):	EL 2103-08	See above	N/A
2.1.1.8	Energy hazards – d.c. mains supply		No dc 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 such type device	N/A
2.1.2	Protection in service access areas	EL 2103-12	No such area	N/A
2.1.3	Protection in restricted access locations	EL 2103-13	Not for restricted access locations	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 = 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 2104 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.2	SELV circuits*	EL 2104-00		P
2.2.2	Voltages under normal conditions	EL 2104-01	Within SELV limit under normal operating conditions (see table 2.2.2)	P
2.2.3	Voltages under fault conditions	EL 2104-02	Within SELV limit under fault conditions (see table 2.2.3)	P
2.2.4	Connection of SELV circuits to other circuits* :	EL 2104-03	SELV to SELV connection only	P

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

Total No of applicable Requirement = 02

No of Requirements for which the sample passed: = 02

Total number of tests to be conducted : = 02

Total No of applicable Tests = 02

No. of tests for which the sample passed: = 02

Certificate: It is certified that the above tests were performed and found to be passing/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		N/A
2.3.1	Type of TNV circuits: TNV-1 / TNV-2 / TNV-3	EL 2105-01	No TNV circuits	N/A
	a) Limits of TNV-1:	EL 2105-02	See above cl. no. 2.3.1	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. 2.3.1	N/A
2.3.2	Separation from other circuits and from accessible parts*	EL 2105-04	See above cl. no. 2.3.1	N/A
2.3.2.1	General Requirements	EL 2105-05	See above cl. no. 2.3.1	N/A
2.3.2.2	Protection by basic insulation	EL 2105-06	See above cl. no. 2.3.1	N/A
2.3.2.3	Protection by earthing	EL 2105-07	See above cl. no. 2.3.1	N/A
2.3.2.4	Protection by other constructions :	EL 2105-08	See above cl. no. 2.3.1	N/A
2.3.3	Separation from hazardous voltages	EL 2105-09	See above cl. no. 2.3.1	N/A
2.3.4	Connection of TNV circuits to other circuits	EL 2105-10	See above cl. no. 2.3.1	N/A
2.3.5	Test for operating voltages generated externally	EL 2105-11	See above cl. no. 2.3.1	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		P
2.4.1	General requirements *	EL 2106-01	See Below	P
2.4.2	Limit values	EL 2106-02	See table 2.4.2	P
2.4.3	Connection of limited current circuits to other circuits*	EL 2106-03	SELV to SELV circuit 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	P
	a) Inherently limited output	EL 2107-01	No inherently limited output	N/A
	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	See table 2.5	P
	d) Overcurrent protective device limited output	EL 2107-04	No such protective device	N/A
	Max. output voltage (V), Max. output current (A), Max. apparent power (VA)	EL 2107-05	See 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 = 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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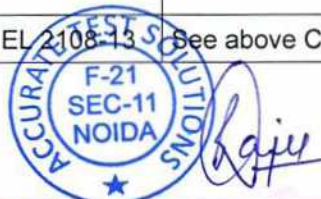
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Tests relating to Electrical Safety

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	Class II equipment	N/A
2.6.1	Protective earthing	EL 2108-01	See above Cl. No. 2.6	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	See above Cl. No. 2.6	N/A
	Use of symbol for functional earthing:*	EL 2108-03	See above Cl. No. 2.6	N/A
2.6.3	Protective earthing and protective bonding conductors*	EL 2108-04	See above Cl. No. 2.6	N/A
2.6.3.2	Size of protective earthing conductors	EL 2108-05	See above Cl. No. 2.6	N/A
	Rated current (A), cross-sectional area (mm ²),		See above Cl. No. 2.6	N/A
2.6.3.3	Size of protective bonding conductors	EL 2108-06	See above Cl. No. 2.6	N/A
	Protective current Rating(A), cross-sectional area (mm ²)		See above Cl. No. 2.6	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	N/A
2.6.3.5	Colour of insulation*:	EL 2108-08	See above Cl. No. 2.6	N/A
2.6.4	Terminals		See above Cl. No. 2.6	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	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	N/A
2.6.5	Integrity of protective earthing*		See above Cl. No. 2.6	N/A
2.6.5.1	Interconnection of equipment*	EL 2108-11	See above Cl. No. 2.6	N/A
2.6.5.2	Components in protective earthing conductors and protective bonding conductors*	EL 2108-12	See above Cl. No. 2.6	N/A
2.6.5.3	Disconnection of protective earth*	EL 2108-13	See above Cl. No. 2.6	N/A



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2.6.5.4	Parts that can be removed by an operator*	EL 2108-14	See above Cl. No. 2.6	N/A
2.6.5.5	Parts removed during servicing*	EL 2108-15	See above Cl. No. 2.6	N/A
2.6.5.6	Corrosion resistance*	EL 2108-16	See above Cl. No. 2.6	N/A
2.6.5.7	Screws for protective bonding*	EL 2108-17	See above Cl. No. 2.6	N/A
2.6.5.8	Reliance on telecommunication network or cable distribution system*	EL 2108-18	See above Cl. No. 2.6	N/A

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

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 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		P
2.7.1	Basic requirements: Protection in primary circuits against overcurrents, short-circuits and earth faults shall be provided, either as an integral part of the equipment or as part of building installation.	EL 2109-01	The equipment relies on Fusible resistor. A built-in Fusible resistor (RF1) provided as an overcurrent protection device	P
	If pluggable equipment Type B or permanently connected equipment relies on protective device external to the equipment for protection, the equipment installation Instructions shall so state and shall also specify the requirements for short-circuit protection or overcurrent protection or, where necessary, for both.		Pluggable equipment Type A	N/A
2.7.2	Faults not simulated in 5.3.7* need not be fitted as an integral part of the equipment	EL 2109-02	No such protection as integral part of the equipment	N/A
2.7.3	Short-circuit backup protection	EL 2109-03	The building installation is considered as providing short circuit backup protection	P
2.7.4	Number and location of protective devices :	EL 2109-04	One Fusible resistor (RF1) used in Line	P
2.7.5	Protection by several devices*	EL 2109-05	Protection by single devices	N/A
2.7.6	Warning to service personnel* :	EL 2109-06	No such warning required	N/A

* Total number of Requirements to be observed / inspected = 04

Total No of applicable Requirement = 01

No of Requirements for which the sample passed: = 01

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 Electrical Safety

EL 2110 – V1.4

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

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

Total number of tests to be conducted : = 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		P
2.9.1	Properties of insulating materials*	EL 2111-01	Natural rubber, materials, containing asbestos and hygroscopic materials are not used	P
2.9.2	Humidity conditioning	EL 2111-02	See below	P
	Relative Humidity : 93 ±3 %, Temperature: t at 40 ± 2°C Duration : 120 hours		Relative humidity: 93% Temperature: 40°C, Tested for 120 Hours.	P
2.9.3	Grade of insulation*	EL 2111-03	Primary- secondary: Reinforced insulation Other: Functional insulation	P
2.9.4	Separation from hazardous voltages*	EL 2111-04	See below	P
	Method(s) used		Method 1 (b) used	P

* Total number of Requirements to be observed / inspected = 04

Total No of applicable Requirement = 04

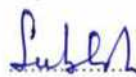
No of Requirements for which the sample passed: = 04

Total number of tests to be conducted : = 01

Total No of applicable Tests = 01

No. of tests for which the sample passed: = 01

Certificate: It is certified that the above tests were performed and found to be passing/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		P
2.10.1.1	Frequency *	EL 2112-01	50/60Hz	P
2.10.1.2	Pollution degrees*	EL 2112-02	Pollution degree 2	P
2.10.1.3	Reduced values for functional insulation	EL 2112-03	Functional insulations complies with requirements of cl. no 5.3.4 c)	P
2.10.1.4	Intervening unconnected conductive parts	EL 2112-04	No such transformer used	N/A
2.10.1.5	Insulation with varying dimensions	EL 2112-05	No such transformer	N/A
2.10.1.6	Special separation requirements	EL 2112-06	Special separation not used	N/A
2.10.1.7	Insulation in circuits generating starting pulses	EL 2112-07	No such circuits	N/A
2.10.2	Determination of working voltage	EL 2112-08	See table 2.10.2	P
2.10.2.2	RMS working voltage	EL 2112-09	See above cl. no. 2.10.2	P
2.10.2.3	Peak working voltage	EL 2112-10	See above cl. no. 2.10.2	P
2.10.3	Clearances	EL 2112-11	See below cl. no. 2.10.3.2 to 2.10.3.9	P
2.10.3.1	General	EL 2112-12	See below	P
2.10.3.2	Mains transient voltages*		See below	P
	a) AC mains supply * :	EL 2112-13	Overvoltage category II, mains transient voltage 2500Vpeak	P
	b) Earthed d.c. mains supplies* ..	EL 2112-14	No dc mains supply	N/A
	c) Unearthed d.c. mains supplies* :	EL 2112-15	No dc mains supply	N/A
	d) Battery operation* :	EL 2112-16	No battery used	N/A
2.10.3.3	Clearances in primary circuits	EL 2112-17	See table 2.10.3 and 2.10.4	P
2.10.3.4	Clearances in secondary circuits	EL 2112-18	Complied with cl. no. 5.3.4 c)	P
2.10.3.5	Clearances in circuits having starting pulses	EL 2112-19	No such circuits	N/A
2.10.3.6	Transients from a.c. mains supply :	EL 2112-20	Considered 2500Vpeak	P
2.10.3.7	Transients from d.c. mains supply :	EL 2112-21	No dc mains supply	N/A



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2.10.3.8	Transients from telecommunication networks and cable distribution systems :	EL 2112-22	No telecommunication network and cable distribution systems	N/A
2.10.3.9	Measurement of transient voltages		See below	N/A
	a) Transients from a mains supply	EL 2112-23	See below	N/A
	For an a.c. mains supply		Considered 2500Vpeak	N/A
	For a d.c. mains supply		No dc 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 below cl. no. 2.10.4.2 to 2.10.4.3	P
2.10.4.1	General	EL 2112-26	See below	P
2.10.4.2	Material group and comparative tracking index : CTI tests*	EL 2112-27	Material group IIIb assumed	P
2.10.4.3	Minimum creepage distances	EL 2112-28	See table 2.10.3 and 2.10.4	P
2.10.5	Solid insulation	EL 2112-29	See below	P
2.10.5.1	General	EL 2112-30	See below	P
2.10.5.2	Distances through insulation	EL 2112-31	See table 2.10.5	P
2.10.5.3	Insulating compound as solid insulation	EL 2112-32	See table 2.10.5	P
2.10.5.4	Semiconductor devices	EL 2112-33		N/A
2.10.5.5	Cemented joints	EL 2112-34	No cemented joints used	N/A
2.10.5.6	Thin sheet material – General	EL 2112-35		N/A
2.10.5.7	Separable thin sheet material	EL 2112-36	Reinforced insulation	P
2.10.5.8	Non-separable thin sheet material	EL 2112-37	Separable thin sheet material	N/A
2.10.5.9	Thin sheet material – standard test procedure	EL 2112-38	Alternate 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 to double layer of the insulation tape	P
	Electric strength test as per Cl.5.2.2		See table 5.2	P
2.10.5.11	Insulation in wound components	EL 2112-40	Electric strength test applied on transformer	P
2.10.5.12	Wire in wound components		See below	P

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	If Peak Working voltage >71 V		Working voltage exceeded 71 V peak	P
	a) Basic insulation not under stress	EL 2112-41	No such insulation	N/A
	b) Basic, supplementary, reinforced insulation	EL 2112-42	Reinforced insulation used	P
	c) Compliance with Annex U	EL 2112-43	Approved triple insulated wire used	P
	d) Where two winding wires in contact inside wound component; angle between 45° and 90°	EL 2112-44	Insulating layers used at crossover point.	P
2.10.5.13	Wire with solvent-based enamel in wound components		Not 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 components	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*		Uncoated printed boards used	P
2.10.6.1	Uncoated printed boards	EL 2112-49	See table 2.10.3 to 2.10.4	P
2.10.6.2	Coated printed boards	EL 2112-50	Not used	N/A
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	EL 2112-51	No such construction	N/A
2.10.6.4	Insulation between conductors on different surfaces of a printed board*		See above cl. no. 2.10.6.3	N/A
	a) Minimum Thickness of insulation: 0.4mm or	EL 2112-52	See above cl. no. 2.10.6.3	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. 2.10.6.3	N/A
2.10.7	Component external terminations	EL 2112-54	No external termination used	N/A
2.10.8	Tests on coated printed boards and coated components		Uncoated printed boards used	N/A



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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	Not used	N/A
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		N/A
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 = 07
No of Requirements for which the sample passed: = 07

Total number of tests to be conducted : = 53
Total No of applicable Tests = 19
No. of tests for which the sample passed: = 19

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

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SUBHASH
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Tests relating to Wiring

EL 2113 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
3.0	Wiring, connections and supply*	EL 2113-00	See below	P
3.1.1	Current rating and overcurrent protection	EL 2113-01	No internal wiring	N/A
3.1.2	Protection against mechanical damage*	EL 2113-02	No internal wiring	N/A
3.1.3	Securing of internal wiring*	EL 2113-03	No internal wiring	N/A
3.1.4	Insulation of conductors	EL 2113-04		N/A
3.1.5	Beads and ceramic insulators	EL 2113-05	Beads and ceramic insulators are not used	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 Insulating materials in electrical connections	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		N/A
3.1.10	Sleeving on wiring*	EL 2113-10	No sleeving used	N/A

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

Total No of applicable Requirement = 01

No of Requirements for which the sample passed: = 01

Total number of tests to be conducted : = 04

Total No of applicable Tests = 00

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

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


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Tests relating to Wiring

EL 2114 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
3.2	Connection to a mains supply*	EL 2114-00		P
3.2.1	Means of connection		See below	P
3.2.1.1	Connection to an a.c. mains supply*	EL 2114-01	Plug is part of direct plug-in equipment, considered as disconnect device	P
3.2.1.2	Connection to a d.c. mains supply*	EL 2114-02	No dc mains supply	N/A
3.2.2	Multiple supply connections	EL 2114-03	No multiple supply connections	N/A
3.2.3	Permanently connected equipment	EL 2114-04	Not a permanently connected equipment	N/A
3.2.4	Appliance inlets: Are so Located that parts at hazardous voltage are not accessible during insertion or removal of the connector, connector can be inserted without difficulty and after insertion of the connector, the equipment is not supported by the connector for any position of normal use on a flat surface (appliance inlets complying with IEC 60309 or IEC 60320 considered to comply with this requirement.	EL 2114-05	Appliance inlet not used	N/A
3.2.5	Power supply cords		Power supply cord set not used	N/A
3.2.5.1	AC power supply cords*	EL 2114-06	See above cl. no. 3.2.5	N/A
	Rated current (A), cross-sectional area (mm ²), AWG		See above cl. no. 3.2.5	N/A
3.2.5.2	DC power supply cords*	EL 2114-07	See above cl. no. 3.2.5	N/A
3.2.6	Cord anchorages and strain relief		See above cl. no. 3.2.5	N/A
	Mass of the equipment: Pull Force (N):	EL 2114-08	See above cl. no. 3.2.5	N/A
	b) Longitudinal displacement: 2 mm (Max)	EL 2114-09	See above cl. no. 3.2.5	N/A
3.2.7	Protection against mechanical damage	EL 2114-10	No sharp point & cutting edge	P



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3.2.8	Cord guards		See above cl. no. 3.2.5	N/A
	a) Diameter or minor dimension D (mm) : Test mass (g) :	EL 2114-11	See above cl. no. 3.2.5	N/A
	b) Radius of curvature of cord : 1.5 D (Min)	EL 2114-12	See above cl. no. 3.2.5	N/A
3.2.9	Supply wiring space	EL 2114-13	See above cl. no. 3.2.5	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 : = 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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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		N/A
3.3.1	Wiring terminals*	EL 2115-01	No wiring terminals	N/A
3.3.2	Connection of non-detachable power supply cords	EL 2115-02	See above cl. no. 3.3.1	N/A
3.3.3	Screw terminals*	EL 2115-03	See above cl. no. 3.3.1	N/A
3.3.4	Conductor sizes to be connected	EL 2115-04	See above cl. no. 3.3.1	N/A
	Rated current (A), cord/cable type, cross-sectional area (mm ²)		See above cl. no. 3.3.1	N/A
3.3.5	Wiring terminal sizes	EL 2115-05	See above cl. no. 3.3.1	N/A
	Rated current (A), type, nominal thread diameter (mm)		See above cl. no. 3.3.1	N/A
3.3.6	Wiring terminal design	EL 2115-06	See above cl. no. 3.3.1	N/A
3.3.7	Grouping of wiring terminals*	EL 2115-07	See above cl. no. 3.3.1	N/A
3.3.8	Stranded wire	EL 2115-08	See above cl. no. 3.3.1	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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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		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	P
3.4.2	Disconnect devices*	EL 2116-02	Direct plug-in equipment as disconnect devices	P
3.4.3	Permanently connected equipment*	EL 2116-03	Not a permanently connected equipment	N/A
3.4.4	Parts which remain energized*	EL 2116-04	No such parts	N/A
3.4.5	Switches in flexible cords*	EL 2116-05	Cord are not used	N/A
3.4.6	Number of poles - single-phase and d.c. equipment*	EL 2116-06	Disconnected devices, disconnected both poles simultaneously	P
3.4.7	Number of poles - three-phase equipment*	EL 2116-07	Single phase equipment	N/A
3.4.8	Switches as disconnect devices*	EL 2116-08	No switch used	N/A
3.4.9	Plugs as disconnect devices*	EL 2116-09	Direct plug-in equipment	N/A
3.4.10	Interconnected equipment*	EL 2116-10	No interconnected equipment	N/A
3.4.11	Multiple power sources*	EL 2116-11	No multiple power sources	N/A

* Total number of Requirements to be observed / inspected = 11
 Total No of applicable Requirement = 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 Wiring

EL 2117 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
3.5	Interconnection of equipment*	EL 2117-00		P
3.5.1	General requirements*	EL 2117-01	See below	P
3.5.2	Types of interconnection circuits*	EL 2117-02	SELV-SELV connection only	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	No such data ports for additional 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 : = 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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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		P
4.1	Stability	EL 2118-01	No such equipment	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 less than 7Kg.	N/A
	b) A floor-standing unit having a mass of 25 kg or more shall not fall over when a force equal to 20 % of the weight of the unit, but not more than 250 N, is applied in any direction except upwards, at a height not exceeding 2 m from the floor.	EL 2118-03	Not a floor standing 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	Not a floor standing equipment	N/A

* Total number of Requirements to be observed / inspected = 01

Total No of applicable Requirement = 01

No of Requirements for which the sample passed = 01

Total number of tests to be conducted = 04

Total No of applicable Tests = 00

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

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


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Tests relating to Mechanical Properties

EL 2119 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
4.2	Mechanical Strength	EL 2119-00		P
4.2.1	General	EL 2119-01	See below	P
4.2.2	Steady force test, 10 N	EL 2119-02	Force applied on component. Result: No damage, No hazards	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	Force applied on each side of the enclosure. Result: No damage, No hazards	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	Dropped three times from height of 1000mm. Result: No damage, No hazards	P
4.2.7	Stress relief test	EL 2119-09	Test performed at 70°C for 7 hours. No deformation of enclosure	P
4.2.8	Cathode Ray Tubes	EL 2119-10		N/A
4.2.9	High Pressure Lamps*	EL 2119-11	No such lamps used	N/A
4.2.10	Wall or ceiling mounted equipment; force(N)	EL 2119-12	No such equipment	N/A

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

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

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


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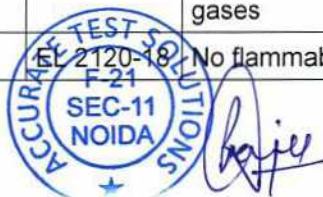
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Tests relating to Mechanical Properties

EL 2120 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
4.3	Design and Construction*	EL 2120-00		P
4.3.1	Edges and corners*	EL 2120-01	All edges or corners accessible to operator are rounded and smoothed	P
4.3.2	Handles and manual controls; force (N):	EL 2120-02	Handles and manual controls not used	N/A
4.3.3	Adjustable controls	EL 2120-03	No such controls used	N/A
4.3.4	Securing of parts	EL 2120-04	Internal parts are well secured against mechanical stress occurring in normal use	P
4.3.5	Connections by Plugs and Sockets*	EL 2120-05	No misconnection likely to create hazard	P
4.3.6	Direct plug-in equipment	EL 2120-06	See below	P
	Torque	EL 2120-07	Complies	P
	Compliance with the relevant mains plug standard	EL 2120-08	Comply with IS 1293: 2019	P
4.3.7	Heating elements in earthed equipment*	EL 2120-09	No heating elements	N/A
4.3.8	Batteries Portable secondary sealed cells and batteries (other than button) containing alkaline or other non-acid electrolyte shall comply with IEC 62133		No battery used	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 or grease	N/A
4.3.10	Dust, powders, liquids and gases	EL 2120-16	Equipment neither use nor produce them	N/A
4.3.11	Containers for liquids or gases	EL 2120-17	Equipment does not contain liquids or gases	N/A
4.3.12	Flammable liquids	EL 2120-18	No flammable liquids	N/A



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4.3.13	Radiation		See below	N/A
4.3.13.2	Ionizing radiation	EL 2120-19	No radiation	N/A
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	EL 2120-20		N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation	EL 2120-21		N/A
4.3.13.5	Lasers (including laser diodes) and LED's:			N/A
4.3.13.5.1	Lasers (including laser diodes) For laser see IEC 60825-1, respective part as applicable.	EL 2120-22		N/A
	Laser class :			N/A
4.3.13.5.2	Light emitting diodes (LED's)	EL 2120-23		N/A
4.3.13.6	Other types*	EL 2120-24	No other type radiations	N/A

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

Total No of applicable Requirement = 03

No of Requirements for which the sample passed: = 03

Total number of tests to be conducted : = 19

Total No of applicable Tests = 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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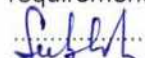
EL 2121 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
4.4	Protection against hazardous moving parts	EL 2121-00	No moving parts in the equipment	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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Tests relating to Thermal Properties

EL 2122 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
4.5	Thermal Requirements*	EL 2122-00	See table 4.5	P
4.5.1	General	EL 2122-01	See table 4.5	P
4.5.2	Temperature tests	EL 2122-02	See table 4.5	P
4.5.3	Temperature limits for materials*	EL 2122-03	See table 4.5	P
4.5.4	Touch temperature limits*	EL 2122-04	See table 4.5	P
4.5.5	Resistance to abnormal heat	EL 2122-05	Phenolic material used, No further test required (See 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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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		N/A
4.6.1	Top and side openings	EL 2123-01	No such opening	N/A
	Dimensions (mm) :			N/A
4.6.2	Bottoms of fire enclosures :	EL 2123-02		N/A
	Construction of the bottom, dimensions (mm) :			N/A
4.6.3	Doors or covers in fire enclosures*	EL 2123-03	No doors and covers used	N/A
4.6.4	Openings in transportable equipment	EL 2123-04	No such openings	N/A
4.6.4.1	Constructional design measures	EL 2123-05	See above cl. No. 4.6.4	N/A
	Dimensions (mm)		See above cl. No. 4.6.4	N/A
4.6.4.2	Evaluation measures for larger openings	EL 2123-06	See above cl. No. 4.6.4	N/A
4.6.4.3	Use of metallized parts	EL 2123-07	No metalized parts	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	No adhesives used	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. 4.6.5	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. 4.6.5	N/A
	c) Place the sample at – 40°C±2°C for 4 hours	EL 2123-11	See above cl. No. 4.6.5	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. 4.6.5	N/A



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e) Place the sample in a cabinet at 91 % to 95 % relative humidity for 72 h;	EL 2123-13	See above cl. No. 4.6.5	N/A
f) Remove the sample and leave it at any convenient temperature between 20 °C and 30 °C for 1 h;	EL 2123-14	See above cl. No. 4.6.5	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. 4.6.5	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. 4.6.5	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. 4.6.5	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		P
4.7.1	Reducing the risk of ignition and spread of flame		See below	P
	Method 1, selection and application of components wiring and materials OR	EL 2124-01	Method 1 used (see table 1.5.1)	P
	Method 2, application of all of simulated fault condition tests	EL 2124-02	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 in primary and secondary circuit	P
4.7.2.2	Parts not requiring a fire enclosure	EL 2124-04	Fire enclosure is required to cover all parts	N/A
4.7.3	Materials*	EL 2124-05	See below	P
4.7.3.1	General*	EL 2124-06	Components and material have adequate flammability classification (see table 1.5.1)	P
	a) Class of material used*	EL 2124-07	Certified material used (See table 1.5.1)	P
	b) Where HB40 CLASS MATERIAL, HB75 CLASS MATERIAL or HBF CLASS FOAMED MATERIAL, is required, material passing the glow-wire test at 550 °C according to IEC 60695-2-11 is acceptable as an Alternative.	EL 2124-08	Not 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	V-0 class material used	P
4.7.3.2	Materials for fire enclosures		Certified material used (See table 1.5.1)	P



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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	See above Cl. No. 4.7.3.2	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 <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	No such openings	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	No such arcing parts	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		N/A



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4.7.3.3	Materials for components and other parts outside fire enclosures *		No such components or parts	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		Certified material used (see table 1.5.1)	P

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	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	See above cl. No. 4.7.3.4	P
	Requirements for voltage dependent resistors (VDR's) are in Annex Q.*	EL 2124-18	Not used	N/A
4.7.3.5	Materials for air filter assemblies : Air filter assemblies shall be constructed of V-2 CLASS MATERIAL, or HF-2 CLASS FOAMED MATERIAL.	EL 2124-19	No air filter assemblies	N/A
4.7.3.6	Materials used in high-voltage components		No high voltage components used	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		N/A



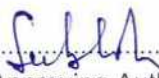
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b) Compliance is checked by inspection of the equipment and material data sheets and, if necessary, by – the tests for V-2 CLASS MATERIAL or HF-2 CLASS FOAMED MATERIAL; or – the test described in 14.4 of IEC 60065; or – the needle flame test according to IEC 60695-11-5.	EL 2124-21		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		N/A
Clause 8 – Conditioning	EL 2124-23		N/A
Clause 11 – Evaluation of test results	EL 2124-24		N/A

* Total number of Requirements to be observed / inspected = 08
 Total No of applicable Requirement = 05
 No of Requirements for which the sample passed: = 05

Total number of tests to be conducted : = 17
 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 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		P
5.1	Touch current and protective conductor current*	EL 2125-01	See below	P
5.1.2	Configuration of equipment under test (EUT)*	EL 2125-02	Complies	P
5.1.2.1	Single connection to an a.c. mains supply*	EL 2125-03	Complies	P
5.1.2.2	Redundant multiple connections to an a.c. mains supply*	EL 2125-04	No multiple connections	N/A
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply	EL 2125-05	See above cl. No. 5.1.2.2	N/A
5.1.3	Test circuit	EL 2125-06	As per figure 5A	P
5.1.4	Application of measuring instrument	EL 2125-07	Tested using figure D.1 measuring instrument of annex D	P
5.1.5	Test procedure	EL 2125-08	See table 5.1.6	P
5.1.6	Test measurements		See below	P
	a) r.m.s value of voltage, U ₂ 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, U ₂ , is measured using the measuring instrument described in Clause D.1	EL 2125-09	See table 5.1.6	P
	b) Measured touch current (mA):	EL 2125-10	Instrument as per figure D1 used	P
	c) Calculated value of TOUCH CURRENT (mA) = U ₂ / 500	EL 2125-11	See table 5.1.6	P
	d) Measured protective conductor current(mA)	EL 2125-12	See below cl. No. 5.1.7	N/A
	e) Max. protective conductor current =5% of Input current	EL 2125-13		N/A
5.1.7	Equipment with touch current exceeding 3.5 mA	EL 2125-14	No such equipment	N/A
5.1.7.1	General	EL 2125-15		N/A



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5.1.7.2	Simultaneous multiple connections to the supply	EL 2125-16	See above cl. No. 5.1.7	N/A
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks	EL 2125-17	No telecommunication network or cable distribution systems	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 = 04

No of Requirements for which the sample passed = 04

Total number of tests to be conducted = 15

Total No of applicable Tests = 06

No. of tests for which the sample passed = 06

Certificate: It is certified that the above tests were performed and found to be passing/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		P
5.2.1	General*	EL 2126-01	See below	P
5.2.2	Test procedure		Table 5B used	P
	a) The test voltages for electric strength for the appropriate grade of insulation [FUNCTIONAL INSULATION if required by 5.3.4 b), BASIC INSULATION, SUPPLEMENTARY INSULATION or REINFORCED INSULATION] are as specified in either: – Table 5B using the PEAK WORKING VOLTAGE (U), as determined in 2.10.2; or – Table 5C using the REQUIRED WITHSTAND VOLTAGE, as determined in G.4.	EL 2126-02	See 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		P
5.3.1	Protection against overload and abnormal operation	EL 2127-01	See table 5.3	P
5.3.2	Motors	EL 2127-02	No motor used	N/A
5.3.3	Transformers	EL 2127-03	See annex C	P
5.3.4	Functional insulation:	EL 2127-04	Complies with cl. No. 5.3.4 c)	P
5.3.5	Electromechanical components	EL 2127-05	No such components used	N/A
5.3.6	Audio amplifiers in ITE :	EL 2127-06	Not used	N/A
5.3.7	Simulation of faults	EL 2127-07	See table 5.3	P
5.3.8	Unattended equipment	EL 2127-08	No such equipment	N/A
5.3.9	Compliance criteria for abnormal operating and fault conditions*		See below	P
5.3.9.1	During the tests	EL 2127-09	No fire, no molten material or no shrinkage or distortion	P
5.3.9.2	After the tests	EL 2127-10	No breakdown occurs	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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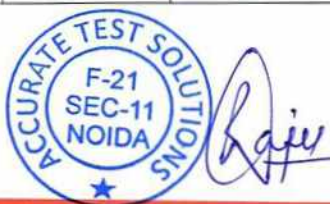
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Tests relating to Communicating Connection

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	Equipment is not for connection to 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	<p>Requirements:</p> <p>- Surge suppressors that bridge the insulation shall have a minimum rated operating voltage U_{op} of $U_{op}=U_{peak}+ \Delta U_{sp}+ \Delta U_{sa}$</p> <p>Where U_{peak} is 360V or 180V</p> <p>ΔU_{sp} is the maximum increase of the rated operating voltage due to variations in component production (If not specified by the manufacturer, shall be taken as 10% of the rated operating voltage of the component)</p> <p>ΔU_{sa} is the maximum increase of the rated operating voltage due to the component ageing over the expected life of the equipment (If not specified by the manufacturer, shall be taken as 10% of the rated operating voltage of the component)</p> <p>-Insulation is subjected to electric strength test according to 5.2.2. The a.c test voltage is 1.5kV or 1.0kV</p> <p>- 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.</p>	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



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

Total number of tests to be conducted : = 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 overvoltages on telecommunication networks*	EL 2129-00	Equipment is not for connection to 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	Equipment is not for connection to telecommunication wiring system	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 $1000/U$, 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



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<p>d) If current limiting is provided by an overcurrent protective device that does not have a specified time/current characteristic:</p> <ul style="list-style-type: none"> – 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.


 (Approving Authority)

SUBHASH
 Technical Manager



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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		N/A
7.1	General requirements*	EL 2131-01	Equipment is not for connection to cable distribution systems	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. 7.1	N/A
7.3	Protection of equipment users from overvoltages on the cable distribution system	EL 2131-03	See above cl. No. 7.1	N/A
7.4	Insulation between primary circuits and cable distribution systems	EL 2131-04	See above cl. No. 7.1	N/A
7.4.1	General	EL 2131-05	See above cl. No. 7.1	N/A
7.4.2	Voltage surge test	EL 2131-06	See above cl. No. 7.1	N/A
7.4.3	Impulse test	EL 2131-07	See above cl. No. 7.1	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	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 <18Kg.	N/A
A.1.1	Samples:	EL 2132-02	See above A.1	N/A
	Wall thickness (mm):		See above A.1	N/A
A.1.2	Conditioning of samples; temperature (°C) :	EL 2132-03	See above A.1	N/A
A.1.3	Mounting of samples :	EL 2132-04	See above A.1	N/A
A.1.4	Test flame (see IEC 60695-11-3)	EL 2132-05	See above A.1	N/A
	Flame A, B, C or D :		See above A.1	N/A
A.1.5	Test procedure	EL 2132-06	See above A.1	N/A
A.1.6	Compliance criteria	EL 2132-07	See above A.1	N/A
	Sample 1 burning time (s):		See above A.1	N/A
	Sample 2 burning time (s):		See above A.1	N/A
	Sample 3 burning time (s):		See above A.1	N/A
A.2	Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4)	EL 2132-08	Certified material used (see table 1.5.1)	P
A.2.1	Samples, material:	EL 2132-09	See above A.2	N/A
	Wall thickness (mm):		See above A.2	N/A
A.2.2	Conditioning of samples; temperature (°C) :	EL 2132-10	See above A.2	N/A
A.2.3	Mounting of samples :	EL 2132-11	See above A.2	N/A
A.2.4	Test flame (see IEC 60695-11-4)	EL 2132-12	See above A.2	N/A
	Flame A, B or C :		See above A.2	N/A
A.2.5	Test procedure	EL 2132-13	See above A.2	N/A



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

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

Total number of tests to be conducted : = 20
 Total No of applicable Tests = 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 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		N/A
B.1	General requirements	EL 2133-01	No motors used	N/A
	Position :		See above B.1	N/A
	Manufacturer :		See above B.1	N/A
	Type :		See above B.1	N/A
	Rated values :		See above B.1	N/A
B.2	Test conditions	EL 2133-02	See above B.1	N/A
B.3	Maximum temperatures	EL 2133-03	See above B.1	N/A
B.4	Running overload test	EL 2133-04	See above B.1	N/A
B.5	Locked-rotor overload test	EL 2133-05	See above B.1	N/A
	Test duration (days):		See above B.1	N/A
	Electric strength test: test voltage (V) :		See above B.1	N/A
B.6	Running overload test for d.c. motors in secondary circuits	EL 2133-06	See above B.1	N/A
B.6.1	General	EL 2133-07	See above B.1	N/A
B.6.2	Test procedure	EL 2133-08	See above B.1	N/A
B.6.3	Alternative test procedure	EL 2133-09	See above B.1	N/A
B.6.4	Electric strength test; test voltage (V):	EL 2133-10	See above B.1	N/A
B.7	Locked-rotor overload test for d.c. motors in secondary circuits	EL 2133-11	See above B.1	N/A
B.7.1	General	EL 2133-12	See above B.1	N/A
B.7.2	Test procedure	EL 2133-13	See above B.1	N/A
B.7.3	Alternative test procedure	EL 2133-14	See above B.1	N/A
B.7.4	Electric strength test; test voltage (V) :	EL 2133-15	See above B.1	N/A
B.8	Test for motors with capacitors	EL 2133-16	See above B.1	N/A
B.9	Test for three-phase motors	EL 2133-17	See above B.1	N/A
B.10	Test for series motors	EL 2133-18	See above B.1	N/A
	Operating voltage (V) :		See above B.1	N/A



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

Total No of applicable Requirement = 00

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

Total number of tests to be conducted : = 19

Total No of applicable Tests = 00

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

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



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Technical Manager



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Tests relating to Electrical Safety


EL 2134 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
C	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)*	EL 2134-00		P
	Position :		See table 1.5.1	P
	Manufacturer :		See table 1.5.1	P
	Type :		See table 1.5.1	P
	Rated values :		See table 1.5.1	P
	Method of protection:		See table 1.5.1	P
C.1	Overload test	EL 2134-01	See table 5.3	P
C.2	Insulation	EL 2134-02	See table 5.2 and C.2	P
	Protection from displacement of windings:		Windings mechanically secured and soldered to pins insulations tapes and coil spacer tapes provided to avoid displacement	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		P
D.1	Measuring instrument	EL 2135-01	Measuring Instrument D.1 used	P
D.2	Alternative measuring instrument	EL 2135-02	Alternative instrument 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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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		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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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	Complies	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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Tests relating to Electrical safety

EL 2138 – V1.4

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



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

Total number of tests to be conducted : = 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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Technical Manager



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Tests relating to Radiation Safety

EL 2139 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
H	ANNEX H, IONIZING RADIATION (see 4.3.13)	EL 2139-00		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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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 earthing and bonding terminals used	N/A
	Metal(s) used :			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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 Technical Manager



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Tests relating to General Requirement

EL 2141 – V1.4

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

*Total number of Requirements to be observed / inspected = 01

Total No of applicable Requirement = 00


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

Total number of tests to be conducted : = 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 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		P
L.1	Typewriters*	EL 2142-01	See below L.7	N/A
L.2	Adding machines and cash registers*	EL 2142-02	See below L.7	N/A
L.3	Erasers*	EL 2142-03	See below L.7	N/A
L.4	Pencil sharpeners*	EL 2142-04	See below L.7	N/A
L.5	Duplicators and copy machines*	EL 2142-05	See below L.7	N/A
L.6	Motor-operated files*	EL 2142-06	See below L.7	N/A
L.7	Other business equipment*	EL 2142-07	Maximum normal load is obtained by operating the equipment at rated output	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		N/A
M.1	Introduction*	EL 2143-01	No telephone ringing signals	N/A
M.2	Method A	EL 2143-02	See above M.1	N/A
M.3	Method B	EL 2143-03	See above M.1	N/A
M.3.1	Ringling signal	EL 2143-04	See above M.1	N/A
M.3.1.1	Frequency (Hz) :	EL 2143-05	See above M.1	N/A
M.3.1.2	Voltage (V) :	EL 2143-06	See above M.1	N/A
M.3.1.3	Cadence; time (s), voltage (V) :	EL 2143-07	See above M.1	N/A
M.3.1.4	Single fault current (mA) :	EL 2143-08	See above M.1	N/A
M.3.2	Tripping device and monitoring voltage :	EL 2143-09	See above M.1	N/A
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage	EL 2143-10	See above M.1	N/A
M.3.2.2	Tripping device	EL 2143-11	See above M.1	N/A
M.3.2.3	Monitoring voltage (V) :	EL 2143-12	See above M.1	N/A

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

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

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


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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		N/A
N.1	ITU-T impulse test generators	EL 2144-01		N/A
N.2	IEC 60065 impulse test generator	EL 2144-02		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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SUBHASH
Technical Manager



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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		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.


 (Approving Authority)

SUBHASH
 Technical Manager



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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	No VDRs used	N/A
	A VDR shall comply with iec 61051-2, whether a fire enclosure is provided or not, taking into account all of the following:		See above Q	N/A
	a) Preferred climatic categories Lower category temperature: -10°C Upper category temperature: +85°C Duration of damp Test, steady state test: 21 days		See above Q	N/A
	b) Maximum continuous voltage: Atleast 1,25 times the rated voltage of the equipment or Atleast 1,25 times the upper voltage of the rated voltage range		See above Q	N/A
	c) Combination pulse :	EL 2146-01	See above Q	N/A
	d) Body of the VDR shall comply with Needle flame test according to IEC 60695-11-5 with the following test severities: duration of application of the test flame: 10 s after flame time: 5s [This test is not required if VDR complies with V-1 CLASS MATERIAL]	EL 2146-02	See above Q	N/A



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

Total number of tests to be conducted : = 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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EL 2147- V1.4

Tests relating to General Requirement

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

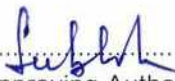
EL 2148 – V1.4

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		N/A
S.1	Test equipment*	EL 2148-01		N/A
S.2	Test procedure*	EL 2148-02		N/A
S.3	Examples of waveforms during impulse testing*	EL 2148-03		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		N/A
U.1	GENERAL	EL2150-01		N/A
U.2	TYPE TESTS	EL2150-02		N/A
U.2.1	GENERAL	EL2150-03		N/A
U.2.2	ELECTRIC STRENGTH	EL2150-04		N/A
U.2.2.1	SOLID ROUND WINDING WIRE AND STRANDED WINDING WIRES	EL2150-05		N/A
U.2.2.1.1	WIRES WITH NOMINAL CONDUCTOR DIAMETER UPTO AND INCLUDING 0.100MM	EL2150-06		N/A
U.2.2.1.2	WIRES WITH NOMINAL CONDUCTOR DIAMETER OVER 0.100MM AND INCLUDING 2.500MM	EL2150-07		N/A
U.2.2.1.3	WIRES WITH NOMINAL CONDUCTOR DIAMETER OVER 2.500MM	EL2150-08		N/A
U.2.2.2	SQUARE OR RECTANGULAR WIRES	EL2150-09		N/A
U.2.3	FLEXIBILITY AND ADHERENCE	EL2150-10		N/A
U.2.4	HEAT SHOCK	EL2150-11		N/A
U.2.5	RETENTION OF ELECTRIC STRENGTH AFTER BENDING	EL2150-12		N/A
U.3	TESTING DURING MANUFACTURING	EL2150-13		N/A
U.3.1	GENERAL	EL2150-14		N/A
U.3.2	ROUTINE TESTS	EL2150-15		N/A
U.3.3	SAMPLING TEST	EL2150-16		N/A



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

Total number of tests to be conducted = 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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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	TN power distribution system used	P
V.1	Introduction*	EL 2151-01	See Above	P
V.2	TN power distribution systems	EL 2151-02	TN-S power distribution system used	P
V.3	TT Power Distribution systems	EL 2151-03	See Above	N/A
V.4	IT Power Distribution systems	EL 2151-04	See Above	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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SUBHASH
Technical Manager



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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 construction	N/A
W.1	Touch current from electronic circuits*	EL 2152-01	See above	N/A
W.1.1	Floating circuits*	EL 2152-02	See above	N/A
W.1.2	Earthed circuits*	EL 2152-03	See above	N/A
W.2	Interconnection of several equipments*	EL 2152-04	See above	N/A
W.2.1	Isolation*	EL 2152-05	See above	N/A
W.2.2	Common return, isolated from earth*	EL 2152-06	See above	N/A
W.2.3	Common return, connected to protective earth*	EL 2152-07	See above	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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 Technical Manager



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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		P
X.1	Determination of maximum input current*	EL 2153-01	See below	P
X.2	Overload test procedure*	EL 2153-02	See table 5.3	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		N/A
Y.1	Test apparatus :	EL 2154-01		N/A
Y.2	Mounting of test samples :	EL 2154-02		N/A
Y.3	Carbon-arc light-exposure apparatus :	EL 2154-03		N/A
Y.4	Xenon-arc light exposure apparatus :	EL 2154-04		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 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 Categories 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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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		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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Tests relating to Electrical Safety

EL 2158 – V1.4

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

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

Total No of applicable Requirement = 00

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

Total number of tests to be conducted = 04

Total No of applicable Tests = 00

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

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



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Tests relating to Mechanical Properties

EL 2159 – V1.4

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

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

Total No of applicable Requirement = 00

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

Total number of tests to be conducted = 02

Total No of applicable Tests = 00

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

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


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Tests relating to Mechanical Properties

EL 2160 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
EE	ANNEX EE, Household and home/office document/media shredders	EL 2160-00	No such equipment	N/A
EE.1	General		See above EE	N/A
EE.2	Markings and instructions*	EL 2160-01	See above EE	N/A
	Use of markings or symbols* :		See above EE	N/A
	Information of user instructions, maintenance and/or servicing instructions* :		See above EE	N/A
EE.3	Inadvertent reactivation test :	EL 2160-02	See above EE	N/A
EE.4	Disconnection of power to hazardous moving parts*	EL 2160-03	See above EE	N/A
	Use of markings or symbols* :		See above EE	N/A
EE.5	Protection against hazardous moving parts		See above EE	N/A
	Test with test finger (Figure 2A) :	EL 2160-04	See above EE	N/A
	Test with wedge probe (Figure EE1 and EE2) :	EL 2160-05	See above EE	N/A

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

Total No of applicable Requirement = 00

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

Total number of tests to be conducted = 04

Total No of applicable Tests = 00

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

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


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1.5.1	TABLE: List of components					P
Object/part no.	Manufacturer/ trademark	Type/model	Technical data	Standard	Mark(s) of conformity ¹	
Enclosure	SABIC INNOVATIVE PLASTICS US L L C	SE1X(GG)(f1)	V-1, 105°C ,minimum thickness 1.5mm	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E121562	
Alternate	ASAHI KASEI CORPORATION	540V(f2)	V-1, 105°C ,minimum thickness 1.5mm	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E82268	
Alternate	SABIC JAPAN L L C	925U(GG)	V-0, 115°C ,minimum thickness 1.5mm	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E207780	
Alternate	COVESTRO DEUTSCHLAND AG [PC RESINS]	FR6005 + (Z)	V-0, 105°C ,minimum thickness 1.5mm	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E41613.	
Alternate	SABIC JAPAN L L C	945(GG)	V-0 , 120°C ,minimum thickness 1.5mm	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E207780	
Plug holder	SABIC INNOVATIVE PLASTICS US L L C	SE1X(GG)(f1)	V-1, 105°C ,minimum thickness 1.5mm	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E121562	
Alternate	ASAHI KASEI CORPORATION	540V(f2)	V-1, 105°C ,minimum thickness 1.5mm	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E82268	
Alternate	SABIC JAPAN L L C	925U(GG)	V-0, 105°C ,minimum thickness 1.5mm	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E207780	
Alternate	SABIC JAPAN L L C	945(GG)	V-0 , 120°C ,minimum thickness 1.5mm	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E207780	
PCB	CHIAN YOU CO LTD	02V0	V-0, 105°C	UL 796 (No equivalent IEC standard)	UL E112804	
Alternate	SHENZHEN JINSHIJIE ELECTRONISC CO LTD	JSJ-1, JSJ-3	V-0, 130°C	UL 796 (No equivalent IEC standard)	UL E503720	



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Alternate	WING SHING ELECTRONIC & PCB LTD	YS-1B, YS-2A, YS-2C, YS-3	V-0, 130°C	UL 796 (No equivalent IEC standard)	UL E190407
Alternate	CHIAN YOU CO LTD	02V0-1, 03V0, 12V0	V-0, 130°C	UL 796 (No equivalent IEC standard)	UL E112804
Alternate	GROW FAST DEVELOPMENT LTD	A2, A3, A4, A5	V-0, 130°C	UL 796 (No equivalent IEC standard)	UL E305467
Alternate	SHYE FENG (DONGGUAN) CO LTD	66V0, 99V0, 990V0	V-0, 130°C	UL 796 (No equivalent IEC standard)	UL E466059
Alternate	JIA HE ELECTRONIC LTD	D1, D3, B, B1	V-0, 130°C	UL 796 (No equivalent IEC standard)	UL E187621
Fusible resistor (RF1)	ANHUI CHANGSHENG ELECTRONICS CO LTD	FRT-2W	3.3Ω, 2W	UL 1412 (No equivalent IEC standard)	UL E306095
Alternate	TZAI YUAN ENTERPRISE CO LTD	KNF2W	3.3Ω, 2W	UL 1412 (No equivalent IEC standard)	UL E355632
Alternate	KAIHUA INDUSTRIAL HONG KONG LTD	FKN-2W Series	3.3Ω, 2W	UL 1412 (No equivalent IEC standard)	UL E341249
Alternate	Shimeng Electronics (Huizhou) Co Ltd	FKN-2W Series	10Ω, 2W	UL 1412 (No equivalent IEC standard)	UL E339430
Alternate	SHENZHEN GREAT ELECTRONICS CO LTD	RXF series	3.3Ω, 2W	UL 1412 (No equivalent IEC standard)	UL E301541
Alternate	SHENZHEN GREAT ELECTRONICS CO LTD	RXF series	10Ω, 2W	UL 1412 (No equivalent IEC standard)	UL E301541
Alternate	ANHUI CHANGSHENG ELECTRONICS CO LTD	FRT-2W	10Ω, 2W	UL 1412 (No equivalent IEC standard)	UL E306095
Alternate	TZAI YUAN ENTERPRISE CO LTD	KNF2W	10Ω, 2W	UL 1412 (No equivalent IEC standard)	UL E355632



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Y-capacitor (CY1) Optional	Yinan Don's Electronic Component Co., Ltd.	CT81	Max. 1000pF, Min. 250Vac, 125°C, Y1 type	IEC/EN 60384-14	VDE 135256
Alternate	Yinan Don's Electronic Component Co., Ltd.	CT81	Max. 2200pF, Min. 250Vac, 125°C, Y1 type	IEC/EN 60384-14	VDE 135256
Alternate	Murata Mfg. Co., Ltd.	KX	Max. 2200pF, Min. 250Vac, 125°C, Y1 type	IEC/EN 60384-14	VDE 40002831
Alternate	Success Electronics Co., Ltd.	SE	Max. 2200pF, Min. 250Vac, 125°C, Y1 type	IEC/EN 60384-14	VDE 40020002
Alternate	Success Electronics Co., Ltd.	SB	Max. 2200pF, Min. 250Vac, 125°C, Y1 type	IEC/EN 60384-14	VDE 40016621
Alternate	Walsin Technology Corp.	WD	Max. 2200pF, Min. 250Vac, 125°C, Y1 type	IEC/EN 60384-14	VDE 40016157
Alternate	Samwha Capacitor Co., Ltd.	SD	Max. 2200pF, Min. 250Vac, 125°C, Y1 type	IEC/EN 60384-14	VDE 40015804
Alternate	Nanjing Yuyue Electronics Co., Ltd.	CT7	Max. 2200pF, Min. 250Vac, 125°C, Y1 type	IEC/EN 60384-14	VDE 40008010
Alternate	TDK Corporation	CD (miniature series)	Max. 2200pF, Min. 250Vac, 125°C, Y1 type	IEC/EN 60384-14	VDE 40017931
Common choke (L1)	GlobTek, Inc.	30D001225-xxx ("xxx" to denote the part number, can be any alphanumeric character for marketing purposes only.)	Class B	IS 13252 (Part 1): 2010 + A1: 2013	Test within equipment

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Alternate	Dee Van	30D001225-xxx ("xxx" to denote the part number, can be any alphanumeric character for marketing purposes only.)	Class B	IS 13252 (Part 1): 2010 + A1: 2013	Test within equipment
Transformer (T1)	GlobTek, Inc.	90E10PFL0-xxx ("xxx" to denote the part number, can be any alphanumeric character for marketing purposes only.)	Class B	IS 13252 (Part 1): 2010 + A1: 2013	Test within equipment
Alternate	Dee Van	90E10PFL0-xxx ("xxx" to denote the part number, can be any alphanumeric character for marketing purposes only.)	Class B	IS 13252 (Part 1): 2010 + A1: 2013	Test within equipment
-Bobbin of (T1)	SHOWA DENKO MATERIALS CO., LTD.	CP-J-8800	Phenolic, V-0, 150 °C, min. Thickness 0.71 mm.	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E514814
-Bobbin of T1 (Alternate)	CHANG CHUN PLASTICS CO LTD	T375J, T375HF, T200HF	Phenolic, V-0, 150 °C, min. Thickness 0.71 mm.	UL94 (Flammability test equivalent to IEC 60695-11-10)	UL E59481
-Bobbin of T1 (Alternate)	SUMITOMO BAKELITE Co., LTD	PM-9820, PM-9823	Phenolic, V-0, 150 °C min. Thickness 0.71 mm.	UL94 (Flammability test equivalent to IEC 60695-11-10)	UL E41429
- Triple insulation wire	Young Chang Silicone Co., Ltd.	STW-B	130°C	IEC 60950-1	VDE 40013359



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- Triple insulation wire (Alternate)	Furukawa Electric Co Ltd	TEX-B	130°C	IEC 60950-1	VDE 40020335
- Triple insulation wire (Alternate)	Furukawa Electric Co Ltd	TEX-E	130°C	IEC 60950-1	VDE 006735
- Triple insulation wire (Alternate)	KBI COSMOLINK CO., LTD.	TIW-M	130°C	IEC 60950-1	VDE 138053
- Triple insulation wire (Alternate)	Great Leoflon Industrial Co., Ltd.	TRW(B)	130°C	IEC 60950-1	VDE 136581
- Triple insulation wire (Alternate)	E&B Technology Co., Ltd.	E&B-XXXB/ E&B-XXXB-1	130°C	IEC 60950-1	VDE 40023473
- Triple insulation wire (Alternate)	Dah Jin Technology Co., Ltd.	TLW-B	130°C	IEC 60950-1	VDE 40008834
- Triple insulation wire (Alternate)	Heyuan Koshen Insulator Co., Ltd.	TIW-B	130°C	IEC 60950-1	VDE 40039102
-Insulation Tape of T1	SYMBIO INC	35660Y	Min.130°C	UL 510 (No equivalent IEC standard)	UL E50292
-Insulation Tape of T1 (Alternate)	SYMBIO INC	35660, MY130	Min.130°C	UL 510 (No equivalent IEC standard)	UL E50292
-Insulation Tape of T1 (Alternate)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1, 1350F-2	Min.130°C	UL 510 (No equivalent IEC standard)	UL E17385
Magnet Wire	HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY	UEW	130°C	UL 1446 (Equivalent to applicable parts of IEC 60950-1)	UL E225143
Alternate of Magnet Wire	WA TAI ELECTROTECHNICAL MATERIALS FACTORY LTD	UEW	130°C	UL 1446 (Equivalent to applicable parts of IEC 60950-1)	UL E243939



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Alternate of Magnet Wire	SHENZHEN DAYANG INDUSTRY CO LTD	XUEW	130°C	UL 1446 (Equivalent to applicable parts of IEC 60950-1)	UL E176101
-Varnish of T1	SHOWA DENKO MATERIALS CO., LTD.	WP-2952F-2G	155°C	UL 1446 (Equivalent to applicable parts of IEC 60950-1)	UL E72979
- Varnish of T1 (Alternate)	ELANTAS PDG, INC.	468-2	155°C	UL 1446 (Equivalent to applicable parts of IEC 60950-1)	UL E75225
Myler sheet	SUMITOMO BAKELITE CO LTD	AV-Lite DP 901	V-0, 130°C, thickness: min. 0.4mm	UL94 (Flammability test equivalent to IEC 60695-11-10)	UL E41429
Alternate	SABIC INNOVATIVE PLASTICS US L L C	FR700	V-0, 125°C, thickness: min. 0.4mm	UL94 (Flammability test equivalent to IEC 60695-11-10)	UL E121562
Tube (Optional)	GREAT HOLDING INDUSTRIAL CO LTD	TFL	150V, 200°C	UL 224 (No equivalent IEC standard)	UL E156256
Alternate	GREAT HOLDING INDUSTRIAL CO LTD	TFS	600V, 200°C	UL 224 (No equivalent IEC standard)	UL E156256
Alternate	GREAT HOLDING INDUSTRIAL CO LTD	TFT	300V, 200°C	UL 224 (No equivalent IEC standard)	UL E156256
Alternate	ZEUS INDUSTRIAL PRODUCTS INC	TFE-SW-600	600V, 200°C	UL 224 (No equivalent IEC standard)	UL E64007
Alternate	ZEUS INDUSTRIAL PRODUCTS INC	TFE-TW-300	300V, 200°C	UL 224 (No equivalent IEC standard)	UL E64007
Alternate	SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD	RSFR	600V, 125°C	UL 224 (No equivalent IEC standard)	UL E203950
Supplementary information:					
1. Evidences provided by the manufacturer for the listed components are verified by us and the evidences conforming to the requirements of the relevent standard.					
2. Data of Alternate Transformer are same except manufacturer name.					

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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	0.180	0.3	10.36	RF1	0.180	Measurement at 50Hz
100	0.168	0.3	10.11	RF1	0.168	
240	0.086	0.3	9.54	RF1	0.086	
254.4	0.083	0.3	9.46	RF1	0.083	
Supplementary information: Maximum normal load						

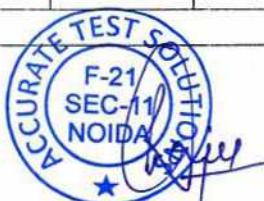
2.1.1.5 TABLE: Energy hazard measurement					P
Voltage (rated) (V)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)	
5.2	1.5	4.45	1.93	8.58	
Supplementary information: Nil.					

2.1.1.7 TABLE: Discharge test					N/A
Condition	τ calculated (s)	τ measured (s)	t u → 0V (s)	Comments	
--	--	--	--	--	
Supplementary information: No such construction.					

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 6 to Pin 7	23.4	--	--	
--	Across capacitor (C7)	--	5.44	--	
Supplementary information: Nil					

2.2.3 TABLE: SELV measurement (under fault conditions)			P
Location	Voltage (max.) (V)	Comments	
C7	Output=0V	short-circuited	
Supplementary information: Nil			

2.4.2 TABLE: Limited current circuit measurement						P
Location	Voltage (V)	Current (mA)	Freq. (kHz)	Limit (mA)	Comments	
Y-Capacitor (CY1)	0.036	0.072	--	0.7	--	
Supplementary information: Nil						



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2.5	TABLE: Limited power source measurement			P
	Limits	Measured	Verdict	
According to Table 2B/2C (normal condition) Output voltage Uoc = 5.12Vdc				
current (in A)	≤8	1.93	P	
apparent power (in VA)	≤100	8.58	P	
According to Table 2B/2C (single fault condition) C7 short circuit Output Voltage= 0V				
current (in A)	≤8	0.0	P	
apparent power (in VA)	≤100	0.0	P	
Supplementary information: Nil				

2.6.3.4	TABLE: Resistance of earthing measurement			N/A
Location	Resistance measured (Ω)		Comments	
--	--		--	
Supplementary information: Class II equipment.				
<OR>				
2.6.3.4	TABLE: Resistance of earthing measurement			N/A
Location	Voltage drop (V)		Comments	
--	--		--	
Supplementary information: Class II equipment.				

2.10.2	Table: Working voltage measurement			P
Location	RMS voltage (V)	Peak voltage (V)	Comments	
Line- Neutral	240	340	Max. Vpeak and Vrms	
Y capacitor (CY1)	106	158	--	
T1 pin 1 to Pin 6	183	268	--	
T1 pin 2 to Pin 6	204	288	--	
T1 pin 4 to Pin 6	112	146	--	
T1 pin 5 to Pin 6	218	325	Max. Vpeak and Vrms	
T1 pin 1 to Pin 7	117	151	--	
T1 pin 2 to Pin 7	103	139	--	
T1 pin 4 to Pin 7	131	186	--	
T1 pin 5 to Pin 7	107	141	--	
Supplementary information: Nil.				



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2.10.3 and 2.10.4	TABLE: Clearance and creepage distance measurements						P
Clearance (cl) and creepage distance (cr) at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)	
Functional:							
Line to neutral	340	240	1.94	4.83	2.5	4.83	
Basic / supplementary							
--		--	--	--	--	--	
Reinforced:							
T1(primary to secondary pin on PCB trace)	325	218	5.16	17.76	5.16	17.76	
Y-Capacitor (CY1)	158	106	5.16	7.95	5.16	7.95	
Supplementary information: NIL.							

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:							
Plastic Enclosure	340	240	3000	0.4	1.86		
Supplementary information: Nil							

4.3.8	TABLE: Batteries								N/A
The tests of 4.3.8 are applicable only when appropriate battery data is not available								---	N/A
Is it possible to install the battery in a reverse polarity position?								--	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:									
- Chemical leaks								--	--
- Explosion of the battery								--	--
- Emission of flame or expulsion of molten metal								--	--
- Electric strength tests of equipment after completion of tests								--	--
Supplementary information: No battery used									

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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 60°C (T_{ma}), as specified by the manufacturer.

Test voltage(s) (V):		A: 90V, 50Hz		B: 254.4V, 50Hz		
t_{amb1} (°C):		A: 26 B: 26		t_{amb2} (°C):		
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)	
External enclosure (Plastic)		11	09	71	69	85
Transformer T1 coil		31	28	91	88	120
Transformer T1 coil Alternate		29	30	89	90	120
Choke (L1)		12	14	72	74	120
Choke (L1) Alternate		13	12	73	72	120
PCB near transformer (T1)		16	14	76	74	105
USB Port		05	04	65	64	70

Supplementary information: Thermocouple method used to determine transformer coil temperature

Temperatures measured with winding resistance method: Not used

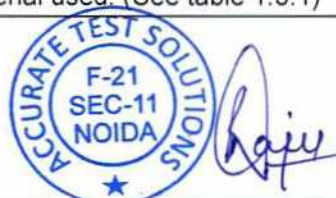
temperature T of winding: (winding resistance method)	(V)	R_1 (Ω)	R_2 (Ω)	T (°C)	allowed T_{max} (°C)	insulation class
--	--	--	--	--	--	--

Supplementary information: Nil

4.5.5	TABLE: Ball pressure test of thermoplastic parts			P
	Allowed impression diameter (mm) : ≤ 2 mm			—
Part	Test temperature (°C)		Impression diameter (mm)	
Supplementary information: Phenolic material used, no test required				

4.6.1, 4.6.2	Table: Enclosure opening measurements		N/A
Location	Size (mm)	Comments	
Supplementary information: No openings			

4.7	Table: Resistance to fire					P
Part	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence	
Supplementary information: Certified material used. (See table 1.5.1)						



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5.1.6	TABLE: Touch current and protective conductor current measurement					P
	Test voltage (V).....: AC254.4V, 50Hz					—
Measurement location (Terminal A connected to...)	Polarity (normal) [mA]		Polarity (reverse) [mA]		Limit (mA)	Comments
	Switch: ON	Switch: OFF	Switch: ON	Switch: OFF		
L/N to output	0.032	--	0.038	--	0.25	--
L/N to plastic enclosure wrapped with metal foil	0.007	--	0.016	--	0.25	--
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:				
Line to neutral(Fusible resistor opened)		AC	1500	No
Basic / supplementary:				
--		--	--	--
Reinforced:				
Alternate Transformer (T1) primary winding to secondary winding		AC	3000	No
Insulation tape of 2 layer		AC	3000	No
L/N to enclosure		AC	3000	No
Supplementary information:NIL.				

5.3	TABLE: Fault condition tests					P
	Ambient temperature (°C)				26°C	P
	Power source for EUT: Manufacturer, model/type, output rating				See table 1.5.1	P
Component No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (A)	Observation
Output	Short-circuit	90Vac	4min.	RF1	--	Unit shut down immediately Result: No Fire, No hazards
Transformer (T1)	Overload	254.4Vac	3 hours	RF1	--	Temperature at Transformer (T1) Coil : 60°C Result: No Fire, No hazards
Supplementary information: Nil						



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C.2	TABLE: Insulation of transformers						P
	Transformer part name.....:		See table 1.5.1				—
	Manufacturer		See above				—
	Type.....:		See above				—
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)	325	218	5.16	T.I.W.	5.16	T.I.W.	
Primary/input winding and core (internal)			5.16	T.I.W.	5.16	T.I.W.	
Secondary/output winding and core (internal)			5.16	T.I.W.	5.16	T.I.W.	
Primary/input part and secondary/output part (external)			5.16	18.83	5.16	18.83	
Primary/input part and core (external)			5.16	T.I.W.	5.16	T.I.W.	
Primary/input part and secondary/output winding (external)			5.16	T.I.W.	5.16	T.I.W.	
Secondary/output part and core (external)			5.16	T.I.W.	5.16	T.I.W.	
Secondary/output part and primary/input winding (external)			5.16	T.I.W.	5.16	T.I.W.	
Description of design:							
(a) Bobbin							
Primary/input pins			1,3,4,5				
Secondary/output pins			6, 7				
Material (manufacturer, type, ratings).....:			See table 1.5.1				
Thickness (mm)			See table 1.5.1				
(b) General							
Concentric windings on Bobbin/Core. Winding ends additionally fixed with tape, outer winding is secondary. Teflon tube on all winding exits are provided. Core is considered as primary. The distance insulation tape is 1.5mm min. winding ends additionally fixed with tape.							
Supplementary information:							
1. T.I.W.= Triple insulated wire.							

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Attachment No. 1

Plug Dimension.:

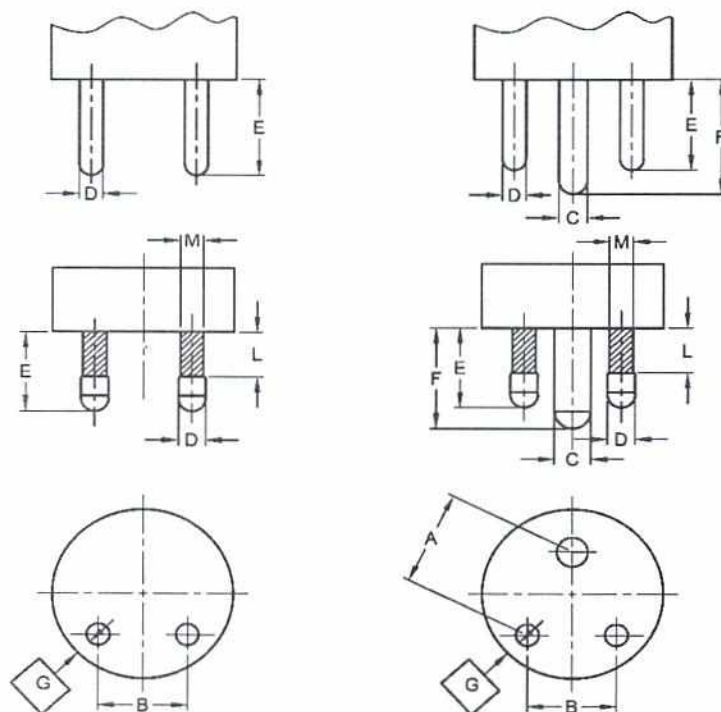


Table 1 : Plug Dimensions

Type of Plug: Two pin [X] Three pin []

Reference points	Ratings					
	2.5A [X]		6A []		16A []	
	Limits	Measured	Limits	Measured	Limits	Measured
A	--	--	22.05-22.35	--	28.45-28.75	--
B	18.95-19.25	19.18	18.95-19.25	--	25.25-25.55	--
C	--	--	7.01-7.085	--	8.66-8.735	--
D	5.03-5.105	5.08	5.03-5.105	--	7.01-7.085	--
E	15.77-16.94	15.98	15.77-16.94	--	20.47-21.64	--
F	--	--	20.47-21.64	--	28.47-29.64	--
G	7.94 (min.)	11.28	7.94 (min.)	--	9.52 (min.)	--
L	7.5	--	7.5	--	9	--
M	4.58 (max)	--	4.58 (max)	--	6.56 (max)	--

Supplementary information: Above dimensional limits are as per IS 1293:2019 in mm.



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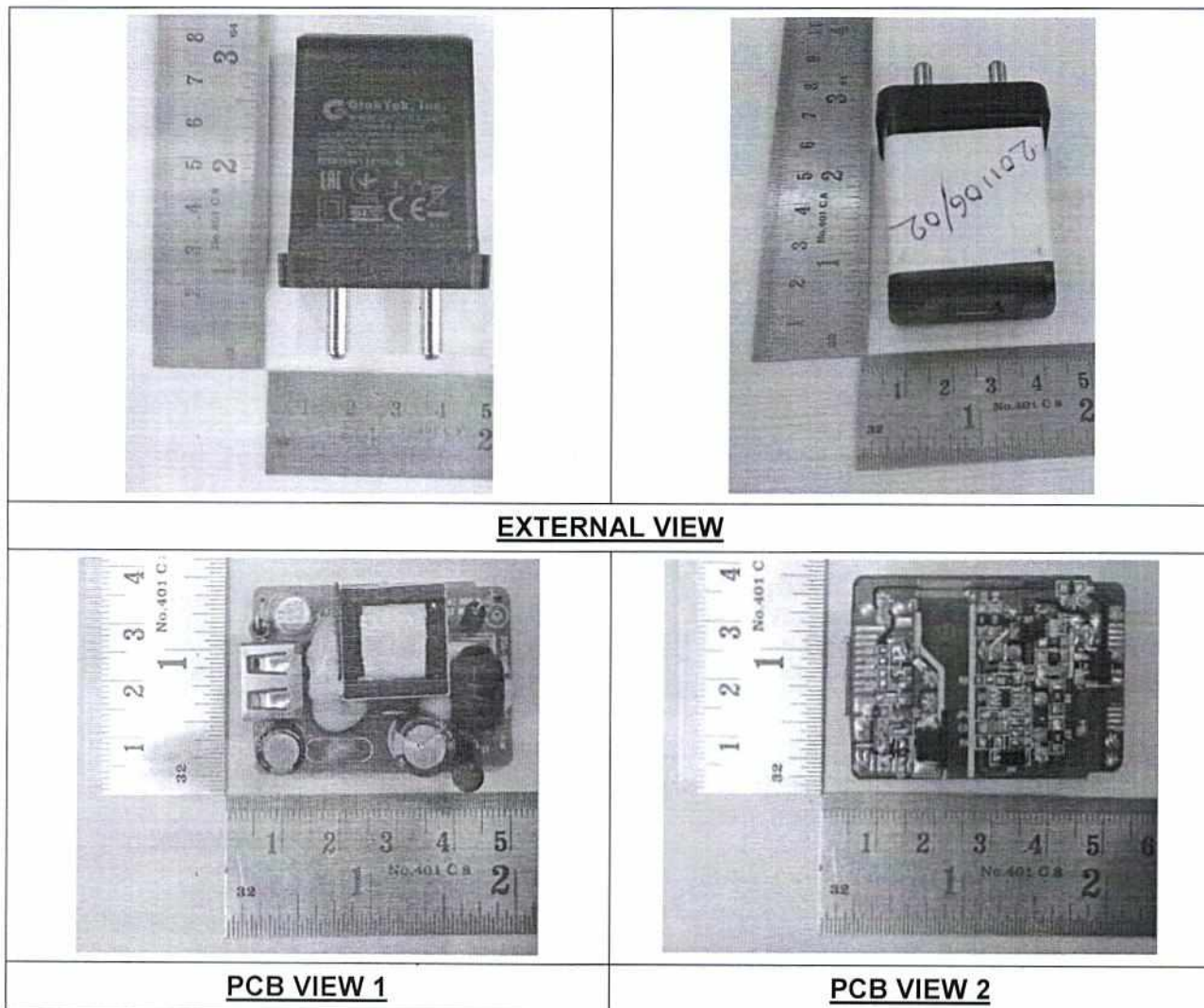
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Attachment No. 2

Photo Document



**** End of Test Report ****

