

**SUMMARY OF TEST REPORT**

TEST REPORT NO... **D210325028/D210325028-1**...DATED **28.04.2021**

(Number of pages in test report: page no. 1 to 100)

ULR: TC631421000003691F

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

- Name of Manufacturer: **GlobTek (Suzhou) Co., Ltd**  
No. 76, Jinling East Road, Suzhou Industrial Park, China
- Product: ITE POWER SUPPLY (Power Adaptor for IT Equipment)
- Models: Lead Model: GT-46401-4015 with Trademark:  **GlobTek, Inc.**  
Series Models: GT-46401-4019-3.0, GT-46401-4024, GT-46401-3612, GT-46401-3615-1.5, GT-46401-3012, GT-46401-3015,  
GT-46401-3019-3.0, GT-46401-3024, GT-46401-2412 with Trademark:  **GlobTek, Inc.**
- Model differences provided (if applicable) : Yes
- Model differences verified as per MEITY Guidelines for series formulation: Yes
- Test Results :

**PART A : GENERAL**

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

**PART B : PROTECTION FROM HAZARDS**

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

**PART C : WIRING, CONNECTIONS AND PHYSICAL REQUIREMENTS**

SL. NO.	TEST REQUIREMENT	CLAUSE	VERDICT
1	General	3.1	P
2	Connection to a mains supply	3.2	P
3	Wiring terminals for connection of external conductors	3.3	N/A

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

**PART D: ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS**

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

**PART E: CONNECTION TO TELECOM AND CABLED DISTRIBUTION SYSTEM**

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

**General Information:**

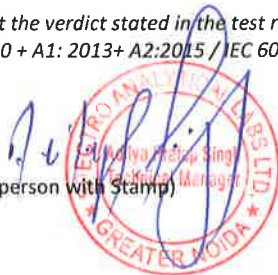
1.The conformity certificates of critical components are verified to ensure complete testing of apparatus under test and details regarding harmonized IEC standards (where IEC standards are not available) are also provided in the list of critical component.

**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 v

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



(Signature of Authorized person with Stamp)



Test Report No.:	D210325028/D210325028-1	Page 1 of 100
ULR No.:	TC631421000003691F	Issue Date: 28/04/2021

<b>Manufacturer:</b>	<b>GlobTek (Suzhou) Co., Ltd</b> No. 76, Jinling East Road, Suzhou Industrial Park, China		
<b>Test item:</b>	ITE POWER SUPPLY (Power Adaptor for IT Equipment)		
<b>Identification:</b>	Lead Model: GT-46401-4015 Series Models: GT-46401-4019-3.0, GT-46401-4024, GT-46401-3612, GT-46401-3615-1.5, GT-46401-3012, GT-46401-3015, GT-46401-3019- 3.0, GT-46401-3024, GT-46401-2412	<b>Serial No.:</b>	Nil
<b>Receipt No.:</b>	D210325028	<b>Date of receipt:</b>	25/03/2021
<b>Testing laboratory and its address:</b>	<b>SPECTRO ANALYTICAL LABS LIMITED</b> S-1,GNEPIP,SURAJPUR INDUSTRIAL AREA PHASE-5,KASNA,GREATER NOIDA-201308		
<b>Test specification:</b>	<b>IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 /</b> <b>IEC 60950-1: 2005 + A1: 2009 + A2 : 2013</b>		
<b>Test Result:</b>	<i>The test item passed the test specification(s).</i>		
<b>Other Aspects:</b>	<p>1. P = Pass, F = Fail, N/A = Not Applicable</p> <p>2. Models: GT-46401-4019-3.0, GT-46401-4024, GT-46401-3612, GT-46401-3615-1.5, GT-46401-3012, GT-46401-3015, GT-46401-3019-3.0, GT-46401-3024, GT-46401-2412 with trademark  <b>GlobTek, Inc.</b> are in the same product family and can be undertaken in series with model <b>GT-46401-4015</b> with trademark:  <b>GlobTek, Inc.</b> . All the tests have been Performed on <b>GT-46401-4015</b> (worst case) with trademark:  <b>GlobTek, Inc.</b></p>		
<i>This test report relates to the test sample submitted and list of documents attached.</i>			

<b>Tested by:</b>	<b>Approved by / Authorized Signatory:</b>	<b>Issued by:</b>
	 	 
(Renu/Engineer)	(Aditya Pratap Singh/Technical Manager)	(Aditya Pratap Singh/Technical Manager)
Date: 28/04/2021	Date: 28/04/2021	Date: 28/04/2021

<b>TEST REPORT</b>	
<b>IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC 60950-1: 2005 + A1: 2009 + A2: 2013 Information technology equipment – Safety – Part 1: General requirements “Power Adaptor for IT Equipment”</b>	
Report Reference No.....	D210325028/D210325028-1
ULR No.....	TC631421000003691F
Date of issue .....	28/04/2021
Total number of pages.....	100
Testing Laboratory .....	<b>SPECTRO ANALYTICAL LABS LIMITED</b>
Address .....	S-1,GNEPIP,SURAJPUR INDUSTRIAL AREA PHASE-5,KASNA,GREATER NOIDA-201308
Manufacturer's name .....	<b>GlobTek (Suzhou) Co., Ltd</b>
Address .....	No. 76, Jinling East Road, Suzhou Industrial Park, China
<b>Test specification:</b>	
Standard .....	<b>IS 13252 (Part 1): 2010 + A1: 2013+ A2:2015 / IEC 60950-1: 2005 + A1: 2009 +A2:2013</b>
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 .....	 <b>GlobTek, Inc.</b>
Model/Type reference .....	Lead Model: GT-46401-4015 Series Models: GT-46401-4019-3.0, GT-46401-4024, GT-46401-3612, GT-46401-3615-1.5, GT-46401-3012, GT-46401-3015, GT-46401-3019-3.0, GT-46401-3024, GT-46401-2412
Ratings .....	Input:100-240Vac,50/60Hz,1.0A Output: 15V  2.66A, 40W
Other Documents submitted .....	Please refer to Table – List of Attachments at Page No. 86

Tested by:	Approved by / Authorized Signatory:	Issued by:
	 	 
(Renu/Engineer)	(Aditya Pratap Singh/Technical Manager)	(Aditya Pratap Singh/Technical Manager)
Date: 28/04/2021	Date: 28/04/2021	Date: 28/04/2021

Report No. D210325028/D210325028-1

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Dated: 28/04/2021

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

ULR No.: TC631421000003691F

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	07	07	11
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
EL 2103	Electrical safety	Protection from electric shock and energy hazards (Cl.2.1)	14	05	05	16
EL 2104	Electrical safety	SELV Circuits (Cl.2.2)	04	04	04	17
EL 2105	Electrical safety	TNV Circuits (Cl.2.3)	12	00	N/A	18
EL 2106	Electrical safety	Limited current circuits (Cl.2.4)	04	04	04	19
EL 2107	Electrical safety	Limited Power sources (Cl.2.5)	07	04	04	20
EL 2108	Electrical safety	Provisions for earthing and bonding (Cl.2.6)	19	00	N/A	21
EL 2109	Electrical safety	Overcurrent and earth fault protection in primary circuits (Cl.2.7)	07	04	04	23
EL 2110	Electrical safety	Safety Interlocks (Cl.2.8)	13	00	N/A	24
EL 2111	Electrical safety	Electrical Insulation (Cl.2.9)	05	05	05	25
EL 2112	Electrical safety	Clearances, Creepage distances and distances through insulation (Cl.2.10)	63	28	28	26
EL 2113	Wiring	Wiring, connections and supply (Cl.3)	11	02	02	29
EL 2114	Wiring	Connection to a main supply (Cl.3.2)	14	03	03	30
EL 2115	Wiring	Wiring terminals for connection of external conductors (Cl.3.3)	09	00	N/A	32
EL 2116	Wiring	Disconnection for the main supply (Cl.3.4)	12	04	04	33
EL 2117	Wiring	Interconnection of equipment (Cl.3.5)	05	03	03	34
EL 2118	Mechanical properties	Stability (Cl.4.1)	05	00	N/A	35
EL 2119	Mechanical properties	Mechanical strength (Cl.4.2)	13	06	06	36
EL 2120	Mechanical properties	Design and construction (Cl.4.3)	25	07	07	37
EL 2121	Mechanical properties	Protection against hazardous moving parts (Cl.4.4)	14	00	N/A	39
EL 2122	Thermal Properties	Thermal requirements (Cl.4.5)	06	06	06	40
EL 2123	Mechanical properties	Openings in Enclosures (Cl.4.6)	18	00	N/A	41
EL 2124	Fire Safety	Resistance to fire (Cl.4.7)		10	10	43
EL 2125	Insulating properties	Electrical requirements and simulated abnormal conditions(Cl.5),5.1		11	11	47

*(Handwritten signature and red circular stamp of Spectro Analytical Labs Limited, Greater Noida)*

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EL 2126	Insulating properties	Electric Strength (Cl.5.2)	03	03	03	49
EL 2127	Insulating properties	Abnormal operating and fault conditions (Cl.5.3)	11	07	07	50
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	51
EL 2129	Communicating connection	Protection of equipment users from overvoltages on telecommunication networks (Cl.6.2)	06	00	N/A	52
EL 2130	Communicating connection	Protection of the telecommunication wiring system from overheating (Cl.6.3)	05	00	N/A	53
EL 2131	Connection to cable distribution systems	Connection to cable distribution systems(Cl.7)	08	00	N/A	55
EL 2132	Fire safety	Tests for resistance to heat and fire (Annex A)	20	02	02	56
EL 2133	Insulating properties	Motor tests under abnormal conditions (Annex B)	19	00	N/A	58
EL 2134	Electrical Safety	Transformers (Annex C)	03	03	03	60
EL 2135	Insulating properties	Measuring Instruments For Touch-Current Tests (Annex D)	03	02	02	61
EL 2136	Thermal Properties	Temperature Rise Of A Winding(Annex E)	01	00	N/A	62
EL 2137	Electrical safety	Measurement Of Clearances And Creepage Distances(Annex F)	01	01	01	63
EL 2138	Electrical safety	Alternative Method For Determining Minimum Clearances(Annex G)	17	00	N/A	64
EL 2139	Radiation Safety	Ionizing Radiation(Annex H)	01	00	N/A	65
EL 2140	Electrical Safety	Table of electrochemical potentials (Annex J)	01	00	N/A	66
EL 2141	General Requirements	Thermal controls (Annex K)	07	00	N/A	67
EL 2142	General Requirements	Normal load conditions for some types of electrical business equipment (Annex L)	08	02	02	68
EL 2143	Electrical Safety	Criteria for telephone ringing signals (Annex M)	13	00	N/A	69
EL 2144	Electrical safety	Impulse Test Generators(Annex N)	03	00	N/A	70

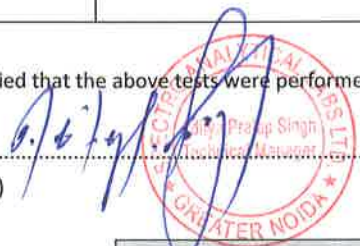
  
 SPECTRO ANALYTICAL LABS LTD.  
 Addl. In-charge Spec. Technol. Manager  
 GREATER NOIDA

Report No. D210325028/D210325028-1	IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 /	Page 5 of 100
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EL 2145	General Requirements	Normative References(Annex P)	01	00	N/A	71
EL 2146	General Requirements	Voltage dependent resistors (VDRs) (Annex Q)	03	00	N/A	72
EL 2147	General Requirements	Examples Of Requirements For Quality Control Programmes(Annex R)	03	00	N/A	73
EL 2148	General Requirements	Procedure For Impulse Testing (Annex S)	04	00	N/A	74
EL 2149	Protection against Ingress of water	Guidance On Protection Against Ingress Of Water (Annex T)	01	00	N/A	75
EL 2150	Wiring	Insulated Winding Wires For Use Without Interleaved Insulation (Annex U)	17	17	17	76
EL 2151	Electrical Safety	Ac Power Distribution Systems(Annex V)	05	03	03	77
EL 2152	Electrical Safety	Summation Of Touch Currents (Annex W)	08	00	N/A	78
EL 2153	Electrical Safety	Maximum Heating Effect In Transformer Tests(Annex X)	03	03	03	79
EL 2154	Radiation safety	Ultraviolet light conditioning test (Annex Y)	05	00	N/A	80
EL 2155	Electrical Safety	Overvoltage Categories (Annex Z)	01	01	01	81
EL 2156	Mechanical properties	Mandrel Test(Annex AA)	01	00	N/A	82
EL 2157	Electrical Safety	Changes In The Second Edition(Annex BB)	01	--	--	--
EL 2158	Electrical Safety	Evaluation Of Integrated Circuit (IC) Current Limiters (Annex CC)	06	00	N/A	83
EL 2159	Mechanical properties	Requirements For The Mounting Means Of Rack-Mounted Equipment (Annex DD)	04	00	N/A	84
EL 2160	Electrical Safety	Household And Home/Office Document/Media Shredders (Annex EE)	06	00	N/A	85

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

.....  
 (Approving Authority)



**Copy of marking plate:**

**ITE Power Supply marking labels:**

Lead Model: GT-46401-4015

**GlobTek, Inc.**  
www.globtek.com

Fuente de alimentación de ITE  
 ITE POWER SUPPLY/电源供应器/ адаптер питания  
 P/N /номер/Número de pieza/料号:  
 MODEL /модель/Modelo/型号:GT-46401-4015  
 INPUT /вход/Entrada/输入 :100-240V~, 50-60 Hz, 1.0A  
 Input only for India: 100-240v~, 50/60Hz,1.0A  
 OUTPUT/выход/Salida/输出:15.0V == 2.66A,40.0W

仅适用于海拔2000米以下地区使用 CAN ICES-3 (B)/NMB-3(B) RoHS  
 제조국가:중국 Китай Производство EFFICIENCY LEVEL (VI) IP40  
 HECHO EN CHINA MADE IN CHINA 中国制造 WWWW

**GlobTek, Inc.**  
www.globtek.com

Fuente de alimentación de ITE  
 ITE POWER SUPPLY/电源供应器/ адаптер питания  
 P/N /номер/Número de pieza/料号:  
 MODEL /модель/Modelo/型号:GT-46401-4019-3.0  
 INPUT /вход/Entrada/输入 :100-240V~, 50-60 Hz, 1.0A  
 Input only for India: 100-240v~, 50/60Hz,1.0A  
 OUTPUT/выход/Salida/输出:16.0V == 2.5A,40.0W

仅适用于海拔2000米以下地区使用 CAN ICES-3 (B)/NMB-3(B) RoHS  
 제조국가:중국 Китай Производство EFFICIENCY LEVEL (VI) IP40  
 HECHO EN CHINA MADE IN CHINA 中国制造 WWWW

Series Model: GT-46401-4019-3.0

**GlobTek, Inc.**  
www.globtek.com

Fuente de alimentación de ITE  
 ITE POWER SUPPLY/电源供应器/ адаптер питания  
 P/N /номер/Número de pieza/料号:  
 MODEL /модель/Modelo/型号:GT-46401-4024  
 INPUT /вход/Entrada/输入 :100-240V~, 50-60 Hz, 1.0A  
 Input only for India: 100-240v~, 50/60Hz,1.0A  
 OUTPUT/выход/Salida/输出:24.0V == 1.66A,40.0W

仅适用于海拔2000米以下地区使用 CAN ICES-3 (B)/NMB-3(B) RoHS  
 제조국가:중국 Китай Производство EFFICIENCY LEVEL (VI) IP40  
 HECHO EN CHINA MADE IN CHINA 中国制造 WWWW

Series Model: GT-46401-4024

**GlobTek, Inc.**  
www.globtek.com

Fuente de alimentación de ITE  
 ITE POWER SUPPLY/电源供应器/ адаптер питания  
 P/N /номер/Número de pieza/料号:  
 MODEL /модель/Modelo/型号:GT-46401-3612  
 INPUT /вход/Entrada/输入 :100-240V~, 50-60 Hz, 1.0A  
 Input only for India: 100-240v~, 50/60Hz,1.0A  
 OUTPUT/выход/Salida/输出:12.0V == 3.0A,36.0W

仅适用于海拔2000米以下地区使用 CAN ICES-3 (B)/NMB-3(B) RoHS  
 제조국가:중국 Китай Производство EFFICIENCY LEVEL (VI) IP40  
 HECHO EN CHINA MADE IN CHINA 中国制造 WWWW

Series Model: GT-46401-3612



**GlobTek, Inc.**  
www.globtek.com

Fuente de alimentación de ITE  
ITE POWER SUPPLY/电源供应器/ адаптер питания  
P/N /номер/Número de pieza/料号:  
MODEL /модель/Modelo/型号: GT-46401-3615-1.5  
INPUT /вход/Entrada/输入 :100-240V~, 50-60 Hz, 1.0A  
Input only for India: 100-240V~, 50/60Hz,1.0A  
OUTPUT/выход/Salida/输出:13.5V == 2.66A,36.0W

仅适用于海拔2000米以下地区使用 CAN ICES-3 (B)/NMB-3(B) RoHS  
제조국가:중국 Китай Производство EFFICIENCY LEVEL 1 IP40  
HECHO EN CHINA MADE IN CHINA 中国制造 WWWW

Series Model: GT-46401-3615-1.5

**GlobTek, Inc.**  
www.globtek.com

Fuente de alimentación de ITE  
ITE POWER SUPPLY/电源供应器/ адаптер питания  
P/N /номер/Número de pieza/料号:  
MODEL /модель/Modelo/型号: GT-46401-3012  
INPUT /вход/Entrada/输入 :100-240V~, 50-60 Hz, 1.0A  
Input only for India: 100-240V~, 50/60Hz,1.0A  
OUTPUT/выход/Salida/输出:12.0V == 2.5A,30.0W

仅适用于海拔2000米以下地区使用 CAN ICES-3 (B)/NMB-3(B) RoHS  
제조국가:중국 Китай Производство EFFICIENCY LEVEL 1 IP40  
HECHO EN CHINA MADE IN CHINA 中国制造 WWWW

Series Model: GT-46401-3012

**GlobTek, Inc.**  
www.globtek.com

Fuente de alimentación de ITE  
ITE POWER SUPPLY/电源供应器/ адаптер питания  
P/N /номер/Número de pieza/料号:  
MODEL /модель/Modelo/型号: GT-46401-3015  
INPUT /вход/Entrada/输入 :100-240V~, 50-60 Hz, 1.0A  
Input only for India: 100-240V~, 50/60Hz,1.0A  
OUTPUT/выход/Salida/输出:15.0V == 2.0A,30.0W

仅适用于海拔2000米以下地区使用 CAN ICES-3 (B)/NMB-3(B) RoHS  
제조국가:중국 Китай Производство EFFICIENCY LEVEL 1 IP40  
HECHO EN CHINA MADE IN CHINA 中国制造 WWWW

Series Model: GT-46401-3015

**GlobTek, Inc.**  
www.globtek.com

Fuente de alimentación de ITE  
ITE POWER SUPPLY/电源供应器/ адаптер питания  
P/N /номер/Número de pieza/料号:  
MODEL /модель/Modelo/型号: GT-46401-3019-3.0  
INPUT /вход/Entrada/输入 :100-240V~, 50-60 Hz, 1.0A  
Input only for India: 100-240V~, 50/60Hz,1.0A  
OUTPUT/выход/Salida/输出:16.0V == 1.875A,30.0W

仅适用于海拔2000米以下地区使用 CAN ICES-3 (B)/NMB-3(B) RoHS  
제조국가:중국 Китай Производство EFFICIENCY LEVEL 1 IP40  
HECHO EN CHINA MADE IN CHINA 中国制造 WWWW

Series Model: GT-46401-3019-3.0

**GlobTek, Inc.**  
www.globtek.com

Fuente de alimentación de ITE  
ITE POWER SUPPLY/电源供应器/ адаптер питания  
P/N /номер/Número de pieza/料号:  
MODEL /модель/Modelo/型号: GT-46401-3024  
INPUT /вход/Entrada/输入 :100-240V~, 50-60 Hz, 1.0A  
Input only for India: 100-240V~, 50/60Hz,1.0A  
OUTPUT/выход/Salida/输出:24.0V == 1.25A,30.0W

仅适用于海拔2000米以下地区使用 CAN ICES-3 (B)/NMB-3(B) RoHS  
제조국가:중국 Китай Производство EFFICIENCY LEVEL 1 IP40  
HECHO EN CHINA MADE IN CHINA 中国制造 WWWW

Series Model: GT-46401-3024

**GlobTek, Inc.**  
www.globtek.com

Fuente de alimentación de ITE  
ITE POWER SUPPLY/电源供应器/ адаптер питания  
P/N /номер/Número de pieza/料号:  
MODEL /модель/Modelo/型号: GT-46401-2412  
INPUT /вход/Entrada/输入 :100-240V~, 50-60 Hz, 1.0A  
Input only for India: 100-240V~, 50/60Hz,1.0A  
OUTPUT/выход/Salida/输出:12.0V == 2.0A,24.0W

仅适用于海拔2000米以下地区使用 CAN ICES-3 (B)/NMB-3(B) RoHS  
제조국가:중국 Китай Производство EFFICIENCY LEVEL 1 IP40  
HECHO EN CHINA MADE IN CHINA 中国制造 WWWW

Series Model: GT-46401-2412

SPECTRO ANALYTICAL LABS LIMITED  
Aditya Prakash Singh  
Technical Manager

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<b>Table – List of Attachments</b>		
Attachment No.	Attachment Description	No. of pages in Attachment
Attachment – 1	Photo Documents	01
<b>General remarks:</b> 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.		
<b>Possible test case verdicts:</b> - 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 (Fall)		
<b>Testing</b> ..... : Date of receipt of test item ..... : 25/03/2021 Date(s) of performance of tests ..... : 25/03/2021 to 02/04/2021		
<b>Laboratory conditions</b> ..... : Ambient Temperature ..... : (25±10)°C Ambient Humidity ..... : Upto 75% Rh		


<b>Test item particulars</b> ..... Equipment mobility ..... Connection to the mains..... Operating condition..... Access location ..... Over voltage category (OVC) ..... Mains supply tolerance (%) or absolute mains supply values .... Class of equipment ..... Considered current rating of protective device as a part of the building installation (A) ..... Pollution degree (PD) ..... IP protection class ..... Altitude during operation (m) ..... Altitude of test laboratory (m) ..... Mass of equipment (kg) .....	<b>ITE POWER SUPPLY (Power Adaptor for IT Equipment)</b> <input checked="" type="checkbox"/> movable <input type="checkbox"/> hand-held <input checked="" type="checkbox"/> transportable <input type="checkbox"/> stationary <input type="checkbox"/> for building-in <input checked="" type="checkbox"/> direct plug-in <input checked="" type="checkbox"/> pluggable equipment [V] type A <input type="checkbox"/> type B <input type="checkbox"/> permanent connection <input type="checkbox"/> detachable power supply cord <input type="checkbox"/> non-detachable power supply cord <input type="checkbox"/> not directly connected to the mains <input checked="" type="checkbox"/> continuous <input type="checkbox"/> rated operating / resting time: <input checked="" type="checkbox"/> operator accessible <input type="checkbox"/> restricted access location <input type="checkbox"/> OVC I <input checked="" type="checkbox"/> OVC II <input type="checkbox"/> OVC III <input type="checkbox"/> OVC IV <input type="checkbox"/> other: +6%, -10% <input type="checkbox"/> Class I <input checked="" type="checkbox"/> Class II <input type="checkbox"/> Class III <input type="checkbox"/> Not classified 16A (for India) <input type="checkbox"/> PD 1 <input checked="" type="checkbox"/> PD 2 <input type="checkbox"/> PD 3 IPX0 Up to 2000 < 1000 0.245
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**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:**

Item: ITE POWER SUPPLY (Power Adaptor for IT Equipment)

Trademark:  **GlobTek, Inc.**

Model: Lead Model: GT-46401-4015  
 Series Models: GT-46401-4019-3.0, GT-46401-4024, GT-46401-3612, GT-46401-3615-1.5, GT-46401-3012, GT-46401-3015, GT-46401-3019-3.0, GT-46401-3024, GT-46401-2412

Rating- Input:100-240Vac,50/60Hz,1.0A  
 Output: 15V  $\overline{\text{---}}$  2.66A, 40W

---

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

Laser classification ..... : N/A

**2) Differences between the models: Yes**

**Differences:** Model Number, Output voltage, Output current, Output power.

Model Number	Output Voltage (DC)	Output Current (A)	Output Power (W)
<b>GT-46401-4015 (Lead Model)</b>	15	2.66	40
GT-46401-4019-3.0 (Series Model)	16	2.5	40
GT-46401-4024 (Series Model)	24	1.66	40
GT-46401-3612 (Series Model)	12	3	36
GT-46401-3615-1.5 (Series Model)	13.5	2.66	36
GT-46401-3012 (Series Model)	12	2.5	30
GT-46401-3015 (Series Model)	15	2	30
GT-46401-3019-3.0 (Series Model)	16	1.875	30
GT-46401-3024 (Series Model)	24	1.25	30
GT-46401-2412 (Series Model)	12	2	24

**Similarities:**

- Same rated Input Voltage (100-240Vac).
- Same class of Construction and transformer (CLASS II).
- Same mains PCB layout and Design.

**Series Models:** GT-46401-4019-3.0, GT-46401-4024, GT-46401-3612, GT-46401-3615-1.5, GT-46401-3012, GT-46401-3015, GT-46401-3019-3.0, GT-46401-3024, GT-46401-2412

**Model No. tested with-in the family series...:** GT-46401-4015 (worst case)

**3) Options: N/A**

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)  Components and subassemblies that comply with IEC 62368-1 are acceptable as part of an equipment covered by this standard without further evaluation other than to give consideration to the appropriate use of the component or subassembly in the end-product.	P
1.5.1	General:	EL 2100-01	Satisfactory (see table 1.5.1)	P
	Components shall be complying with IEC 60950-1 or relevant component standard.		Verification of approvals with due correlation between the components used and the approval certificates submitted. (Please see the table 1.5.1)	P
	Components and subassemblies approved for IEC 62368-1 can be considered as complying with this standard		Complies (See table 1.5.1)	P
1.5.2	Evaluation and testing of components	EL 2100-02	Component that has been demonstrated to comply with a standard harmonized with the relevant IEC component standard shall be subjected to the applicable tests of this standard, as part of the equipment, with the exception of those tests that are part of the relevant IEC component standard Component that has not been demonstrated to comply with a relevant standard as above shall be subjected to the applicable tests of this standard, as part of the equipment, and to the applicable tests of the component standard, under the conditions occurring in the equipment	P
1.5.3	Thermal controls	EL 2100-03	No thermal control	N/A
1.5.4	Transformers	EL 2100-04	Transformer (T1) Tested with in appliance (See Annex C and table C.2)	P
1.5.5	Interconnecting cables*	EL 2100-05	No Interconnecting cables	N/A
1.5.6	Capacitors bridging insulation *	EL 2100-06	Approved Y capacitor (CY1) used (see table 1.5.1)	P
1.5.7	Resistors bridging insulation	EL 2100-07	See below	P
1.5.7.1	Resistors bridging functional, basic or supplementary insulation*	EL 2100-08	Resistor bridging functional insulation only	P
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	EL 2100-09		N/A



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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		N/A
1.5.8	Components in equipment for IT power distribution systems*	EL 2100-11		N/A
1.5.9	Surge suppressors	EL 2100-12	See table 1.5.1	N/A
1.5.9.1	General*	EL 2100-13	See table 1.5.1	N/A
1.5.9.2	Protection of VDRs*	EL 2100-14	See table 1.5.1	N/A
1.5.9.3	Bridging of functional insulation by a VDR*	EL 2100-15	See table 1.5.1	N/A
1.5.9.4	Bridging of basic insulation by a VDR*	EL 2100-16	See table 1.5.1	N/A
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR*	EL 2100-17	Not permitted to bridge Supplementary insulation, Double insulation or Reinforced insulation by a VDR	N/A

\*- Total number of Requirements to be observed / inspected = 10  
 Total No of applicable Requirement = 03  
 No of Requirements for which the sample passed= 03

Total number of tests to be conducted = 08  
 Total No of applicable Tests = 04  
 No. of tests for which the sample passed= 04

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

.....  
 (Approving Authority)

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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	See below	P
1.6.1	AC power distribution systems*	EL 2101-01	Satisfactory	P
1.6.2	Input current	EL 2101-02	Satisfactory (See table 1.6.2)	P
1.6.3	Voltage limit of hand-held equipment*	EL 2101-03	The equipment is not hand-held	N/A
1.6.4	Neutral conductor *	EL 2101-04	Satisfactory	P

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

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


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

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 (Approving Authority)

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Tests relating to Marking Requirements

EL 2102 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
1.7	Marking and instructions*	EL 2102-00	Satisfactory	P
1.7.1	Power rating and identification markings		See below	P
1.7.1.1	Power rating marking*	EL 2102-01	Satisfactory	P
	Rated voltage(s) or voltage ranges(s) (V)*.	EL 2102-02	100-240Vac	P
	Multiple mains supply connections*.	EL 2102-03	Single mains supply provided	N/A
	Symbol for nature of supply, for d.c. only*:	EL 2102-04	Mains from AC source	N/A
	Rated frequency or rated frequency range (Hz) *:	EL 2102-05	50/60Hz	P
	Rated current (mA or A)*:	EL 2102-06	1.0A	P
1.7.1.2	Identification markings*	EL 2102-07	See below	P
	Manufacturer's name or trade-mark or identification mark *:	EL 2102-08		P
	Model identification or type reference *:	EL 2102-09	Lead Model: GT-46401-4015 Series Models: GT-46401-4019-3.0, GT-46401-4024, GT-46401-3612, GT-46401-3615-1.5, GT-46401-3012, GT-46401-3015, GT-46401-3019-3.0, GT-46401-3024, GT-46401-2412	P
	Symbol for Class II equipment only* :	EL 2102-10	Proper symbol marked on the EUT <input checked="" type="checkbox"/>	p
	Other markings and symbols*:	EL 2102-11	Other Markings or symbol do not give rise to misunderstanding	P
1.7.1.3	Use of graphical symbols*	EL 2102-12	IEC 60417:5957[for indoor use only] symbol is used and conform to IEC 60417.	P
1.7.2	Safety instructions and marking*	EL 2102-13	No such user manual provided	N/A
1.7.2.1	General	EL 2102-14	See Below	P
1.7.2.2	Disconnect devices*	EL 2102-15	Direct plug is used as disconnect device	P
1.7.2.3	Overcurrent protective devices*	EL 2102-16	Plug-gable equipment type A	N/A
1.7.2.4	IT power distribution systems*	EL 2102-17	No such system available	N/A
1.7.2.5	Operator access with a tool*	EL 2102-18	No such area	N/A
1.7.2.6	Ozone*	EL 2102-19	Device does not produce ozone	N/A
1.7.3	Short duty cycles*	EL 2102-20	The EUT is continuous operating type	N/A
1.7.4	Supply voltage adjustment*	EL 2102-21	No voltage adjustment	N/A
1.7.5	Power outlets on the equipment*	EL 2102-22	No such power outlet found within EUT	N/A





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Tests relating to Marking Requirements

EL 2102 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
1.7.6	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 provided FS1 (2.0A /250V)	P
1.7.7	Wiring terminals	EL 2102-24		N/A
1.7.7.1	Protective earthing and bonding terminals*	EL 2102-25	Class II equipment hence no earthing terminal available	N/A
1.7.7.2	Terminals for a.c. mains supply conductors*	EL 2102-26		N/A
1.7.7.3	Terminals for d.c. mains supply conductors*	EL 2102-27	Not Connected to DC Mains Supply	N/A
1.7.8	Controls and indicators	EL 2102-28	No controls or indicators used	N/A
1.7.8.1	Identification, location and marking *:	EL 2102-29	No controls and switches within the EUT	N/A
1.7.8.2	Colours*	EL 2102-30		N/A
1.7.8.3	Symbols according to IEC 60417*:	EL 2102-31	No such symbol	N/A
1.7.8.4	Markings using figures* :	EL 2102-32	No such controls used	N/A
1.7.9	Isolation of multiple power sources*	EL 2102-33	No multiple power sources	N/A
1.7.10	Thermostats and other regulating devices*	EL 2102-34	No such device within the EUT	N/A
1.7.11	Durability	EL 2102-35	Marking is durable and legible after the test	P
1.7.12	Removable parts*	EL 2102-36	No removable parts	N/A
1.7.13	Replaceable batteries*	EL 2102-37	No batteries used	N/A
	Language(s)			N/A
1.7.14	Equipment for restricted access locations*	EL 2102-38	Not intended to be installed in restricted access location	N/A

\*- Total number of Requirements to be observed / inspected = 35  
 Total No of applicable Requirement = 13  
 No of Requirements for which the sample passed=13

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

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

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 (Approving Authority)



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Tests relating to Electrical Safety

EL 2103 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.1	Protection from electric shock and energy hazards*	EL 2103-00	See below	P
2.1.1	Protection in operator access areas*	EL 2103-01	Satisfactory	P
2.1.1.1	Access to energized parts	EL 2103-02	There is a adequate protection against operator to contact with hazardous parts	P
	Test by inspection :		No access to hazardous parts	P
	Test with test finger (Figure 2A)		The hazardous parts are not accessible	P
	Test with test pin (Figure 2B):			P
	Test with test probe (Figure 2C)		No connection to TNV circuit	N/A
2.1.1.2	Battery compartments *	EL 2103-03	No battery compartments	N/A
2.1.1.3	Access to ELV wiring	EL 2103-04	No ELV wiring in operator access area	N/A
	Working voltage (V <sub>peak</sub> or V <sub>rms</sub> ); minimum distance through insulation (mm)			N/A
2.1.1.4	Access to hazardous voltage circuit wiring	EL 2103-05	No hazardous voltage circuit in operator access area	N/A
2.1.1.5	Energy hazards :	EL 2103-06	Energy does not exceed 240VA between any two points (See table 2.1.1.5)	P
2.1.1.6	Manual controls	EL 2103-07	No manual controls used	N/A
2.1.1.7	Discharge of capacitors in equipment		(CX1) X-Capacitors used	P
	Measured voltage (V); time-constant (s):	EL 2103-08	(See table 1.5.1)	P
2.1.1.8	Energy hazards – d.c. mains supply		Not connected to DC mains supply	N/A
	a) Capacitor connected to the d.c. mains supply :	EL 2103-09		N/A
	b) Internal battery connected to the d.c. mains supply :	EL 2103-10		N/A
2.1.1.9	Audio amplifiers to be tested according to IEC 60065, cl. 9.1.1.:	EL 2103-11	No audio Amplifier	N/A
2.1.2	Protection in service access areas	EL 2103-12	No serviceable part inside the equipment	N/A
2.1.3	Protection in restricted access locations	EL 2103-13	Not intended to be installed in restricted access location	N/A

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

Total No of applicable Requirement = 02

No of Requirements for which the sample passed=02

Total number of tests to be conducted = 11

Total No of applicable Tests = 03

No. of tests for which the sample passed=03

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

.....  
 (Approving Authority)



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Tests relating to Electrical Safety

**EL 2104 – V1.4**


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

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

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

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

.....  
 (Approving Authority)

*(Handwritten Signature)*  


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Tests relating to Electrical Safety

EL 2105 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.3	TNV circuits*	EL 2105-00	No TNV circuits within the equipment	N/A
2.3.1	Type of TNV circuits: TNV-1 / TNV-2 / TNV-3	EL 2105-01		N/A
	a) Limits of TNV-1:	EL 2105-02		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		N/A
2.3.2	Separation from other circuits and from accessible parts*	EL 2105-04		N/A
2.3.2.1	General Requirements	EL 2105-05		N/A
2.3.2.2	Protection by basic insulation	EL 2105-06		N/A
2.3.2.3	Protection by earthing	EL 2105-07		N/A
2.3.2.4	Protection by other constructions :	EL 2105-08		N/A
2.3.3	Separation from hazardous voltages	EL 2105-09		N/A
2.3.4	Connection of TNV circuits to other circuits	EL 2105-10		N/A
2.3.5	Test for operating voltages generated externally	EL 2105-11		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 in the requirement tested.

(Approving Authority)



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Tests relating to Electrical Safety

EL 2106 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.4	Limited current circuits *	EL 2106-00	See below	P
2.4.1	General requirements *	EL 2106-01	The limit of 2.4.2 were not exceeding under normal operating condition	P
2.4.2	Limit values	EL 2106-02	Satisfactory (see table 2.4.2)	P
2.4.3	Connection of limited current circuits to other circuits*	EL 2106-03	The limit of 2.4.2 were not exceeding under normal operating condition	P

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

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

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

.....  
 (Approving Authority)



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Tests relating to Electrical Safety

EL 2107 – V1.4

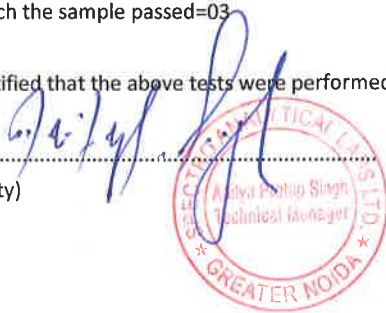
Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.5	Limited power sources *	EL 2107-00	See below	P
	a) Inherently limited output	EL 2107-01		N/A
	b) Impedance limited output	EL 2107-02		N/A
	c) Regulating network limited output under normal operating and single fault condition Use of integrated circuit (IC) current limiters	EL 2107-03	Satisfactory (see table 2.5)	P
	d) Overcurrent protective device limited output	EL 2107-04	Fuse is used as a current protection device	P
	Max. output voltage (V), Max. output current (A), Max. apparent power (VA)	EL 2107-05	See table 2.1.1.5	P
	Current rating of over-current protective device (A)	EL 2107-06		N/A

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

Total number of tests to be conducted = 06  
 Total No of applicable Tests = 03  
 No. of tests for which the sample passed=03

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

.....  
 (Approving Authority)



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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, No provision of earthing and bonding	N/A
2.6.1	Protective earthing	EL 2108-01	Class II equipment	N/A
2.6.2	Functional earthing : The Functional earthing either separated from hazardous voltages by double- or reinforced insulation or safely connected to Protective Bonding Conductor.*	EL 2108-02		N/A
	Use of symbol for functional earthing:*	EL 2108-03		N/A
2.6.3	Protective earthing and protective bonding conductors*	EL 2108-04		N/A
2.6.3.2	Size of protective earthing conductors	EL 2108-05		N/A
	Rated current (A), cross-sectional area (mm <sup>2</sup> ), AWG			N/A
2.6.3.3	Size of protective bonding conductors	EL 2108-06		N/A
	Rated current (A), cross-sectional area (mm <sup>2</sup> ), AWG			N/A
2.6.3.4	Resistance of earthing conductors and their terminations; resistance ( $\Omega$ ), voltage drop (V), test current (A), duration (min):	EL 2108-07		N/A
2.6.3.5	Colour of insulation*:	EL 2108-08		N/A
2.6.4	Terminals		No such terminals	N/A
2.6.4.2	Protective earthing and bonding terminals : Rated current(A), Type, Nominal thread diameter (mm)	EL 2108-09		N/A
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors*	EL 2108-10		N/A
2.6.5	Integrity of protective earthing*			N/A
2.6.5.1	Interconnection of equipment*	EL 2108-11		N/A
2.6.5.2	Components in protective earthing conductors and protective bonding conductors*	EL 2108-12		N/A
2.6.5.3	Disconnection of protective earth*	EL 2108-13		N/A
2.6.5.4	Parts that can be removed by an operator*	EL 2108-14		N/A
2.6.5.5	Parts removed during servicing*	EL 2108-15		N/A
2.6.5.6	Corrosion resistance*	EL 2108-16	No such part	N/A
2.6.5.7	Screws for protective bonding*	EL 2108-17	No Screws	N/A
2.6.5.8	Reliance on telecommunication network or cable distribution system*	EL 2108-18	No TNV circuit	N/A



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

Total No of applicable Requirement = 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 in the requirement tested.

.....  
(Approving Authority)





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Tests relating to Electrical Safety

EL 2109 – V1.4

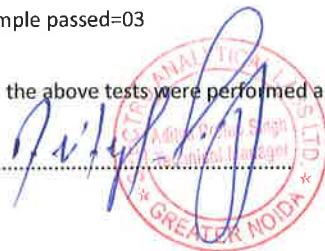
Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.7	Overcurrent and earth fault protection in primary circuits*	EL 2109-00	Satisfactory	P
2.7.1	Basic requirements: Protection in primary circuits against overcurrents, short-circuits and earth faults shall be provided, either as an integral part of the equipment or as part of building installation.	EL 2109-01	Integral part of equipment provides over current protection	P
	If pluggable equipment Type B or permanently connected equipment relies on protective device external to the equipment for protection, the equipment installation Instructions shall so state and shall also specify the requirements for short-circuit protection or overcurrent protection or, where necessary, for both.		Neither Pluggable equipment type B nor Permanently connected equipment	N/A
2.7.2	Faults not simulated in 5.3.7* need not be fitted as an integral part of the equipment	EL 2109-02		N/A
2.7.3	Short-circuit backup protection	EL 2109-03	The Building installation is considered as short circuit backup protection	P
2.7.4	Number and location of protective devices :	EL 2109-04	Over current protection by one built in Fuse (FS1)	P
2.7.5	Protection by several devices*	EL 2109-05	Over current protection by one built in Fuse (FS1)	N/A
2.7.6	Warning to service personnel* :	EL 2109-06	No protection used for neutral conductor	N/A

\*- Total number of Requirements to be observed / inspected = 05  
 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 in the requirement tested.

.....  
 (Approving Authority)



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Tests relating to Electrical Safety

EL 2110 – V1.4

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

.....  
 (Approving Authority)

Technical Director  
 GREATER NOIDA

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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	Satisfactory	P
2.9.1	Properties of insulating materials*	EL 2111-01	Natural rubber, Hygroscopic materials are not used as insulation	P
2.9.2	Humidity conditioning	EL 2111-02	Satisfactory	P
	Relative Humidity : 93 ±3 %, Temperature: t at 40 ± 2°C Duration : 120 hours		93%  40°C  120 hours	P
2.9.3	Grade of insulation*	EL 2111-03	Insulation considered is to be functional, basic, supplementary, reinforced or double insulation	P
2.9.4	Separation from hazardous voltages*	EL 2111-04	See below	P
	Method(s) used		Method 1 used	P

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

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

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

.....  
 (Approving Authority)

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Tests relating to Electrical Safety

EL 2112 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.10	Clearances, creepage distances and distances through Insulation*	EL 2112-00	See below	P
2.10.1.1	Frequency *	EL 2112-01	Frequency not exceeding 30kHz	P
2.10.1.2	Pollution degrees*	EL 2112-02	Pollution Degree 2	P
2.10.1.3	Reduced values for functional insulation	EL 2112-03	Functional insulation complies with 5.3.4 (c)	P
2.10.1.4	Intervening unconnected conductive parts	EL 2112-04	contacts of a connector provided	P
2.10.1.5	Insulation with varying dimensions	EL 2112-05	Insulation with varying dimension is not used	N/A
2.10.1.6	Special separation requirements	EL 2112-06	Special Separation is not used	N/A
2.10.1.7	Insulation in circuits generating starting pulses	EL 2112-07	No circuit generating starting pulses	N/A
2.10.2	Determination of working voltage	EL 2112-08	See below	P
2.10.2.2	RMS working voltage	EL 2112-09	See table 2.10.2	P
2.10.2.3	Peak working voltage	EL 2112-10	See table 2.10.2	P
2.10.3	Clearances	EL 2112-11	See below	P
2.10.3.1	General	EL 2112-12	Satisfactory	P
2.10.3.2	Mains transient voltages*		Over Voltage Category II 2500 V peak	P
	a) AC mains supply * :	EL 2112-13	100-240Vac between supply terminals	P
	b) Earthed d.c. mains supplies* .....	EL 2112-14	The Equipment is not intended to be supplied by DC Mains	N/A
	c) Unearthed d.c. mains supplies* :	EL 2112-15	The Equipment is not intended to be supplied by DC Mains	N/A
	d) Battery operation* :	EL 2112-16	The Equipment is not intended to be supplied by Battery	N/A
2.10.3.3	Clearances in primary circuits	EL 2112-17	See appended table 2.10.3 and 2.10.4	P
2.10.3.4	Clearances in secondary circuits	EL 2112-18		P
2.10.3.5	Clearances in circuits having starting pulses	EL 2112-19		N/A
2.10.3.6	Transients from a.c. mains supply :	EL 2112-20	Satisfactory	P
2.10.3.7	Transients from d.c. mains supply :	EL 2112-21	The Equipment is not connected to DC Mains	N/A
2.10.3.8	Transients from telecommunication networks and cable distribution systems .....	EL 2112-22	Not Connected to telecommunication network & cable distribution system	N/A
2.10.3.9	Measurement of transient voltage levels			N/A
	a) Transients from a mains supply	EL 2112-23		N/A
	For an a.c. mains supply			N/A
	For a d.c. mains supply		Not connected to DC Main Supply	N/A
	b) Transients from a telecommunication network	EL 2112-24	Not Connected to Telecommunication Network	N/A

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2.10.4	Creepage distances*	EL 2112-25	See Below	P
2.10.4.1	General	EL 2112-26	Satisfactory (See appended table 2.10.3 & 2.10.4)	P
2.10.4.2	Material group and comparative tracking index : CTI tests*	EL 2112-27	Material Group IIIb assumed to be used	P
2.10.4.3	Minimum creepage distances	EL 2112-28	(See appended table 2.10.3 & 2.10.4)	P
2.10.5	Solid insulation	EL 2112-29	See Below	P
2.10.5.1	General	EL 2112-30	Satisfactory	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	No such construction used	N/A
2.10.5.5	Cemented joints	EL 2112-34	No cemented joints	N/A
2.10.5.6	Thin sheet material – General	EL 2112-35	Satisfactory	P
2.10.5.7	Separable thin sheet material	EL 2112-36	Six layers insulating tape wrapped around T1 body as reinforced insulation	P
2.10.5.8	Non-separable thin sheet material	EL 2112-37		N/A
2.10.5.9	Thin sheet material – standard test procedure	EL 2112-38		N/A
	Electric strength test as per Cl.5.2.2			N/A
2.10.5.10	Thin sheet material – alternative test procedure	EL 2112-39	See below	P
	Electric strength test as per Cl.5.2.2		See table 5.2	P
2.10.5.11	Insulation in wound components	EL 2112-40		P
2.10.5.12	Wire in wound components		Approved triple insulation wire	P
	If Peak Working voltage >71 V		See table 2.10.3 and 2.10.4	P
	a) Basic insulation not under stress	EL 2112-41	No such construction	N/A
	b) Basic, supplementary, reinforced insulation	EL 2112-42	Reinforced insulation	P
	c) Compliance with Annex U	EL 2112-43	Approved triple insulation wire	P
	d) Where two winding wires in contact inside wound component; angle between 45° and 90°	EL 2112-44	The insulation tape and bobbin are provide to protect against mechanical stress	P
2.10.5.13	Wire with solvent-based enamel in wound components			N/A
	a) Electric strength test (Type test as per Cl.5.2.2)	EL 2112-45		N/A
	b) Electric Strength test (Routine test as per Cl.5.2.2)	EL 2112-46		N/A
2.10.5.14	Additional insulation in wound components			N/A
	If Peak Working Voltage >71V			N/A
	a) Basic insulation not under stress	EL 2112-47		N/A
	b) Supplementary, reinforced insulation	EL 2112-48		N/A



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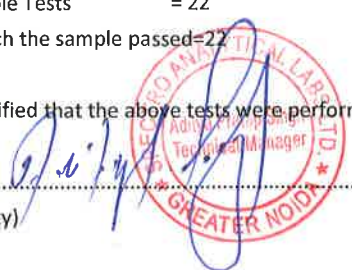
2.10.6	Construction of printed boards*		See below	P
2.10.6.1	Uncoated printed boards	EL 2112-49	Satisfactory	P
2.10.6.2	Coated printed boards	EL 2112-50	No coated printed wiring boards	N/A
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	EL 2112-51	No such construction	N/A
2.10.6.4	Insulation between conductors on different layers of a printed board*		Not used to provide supplementary or double reinforced insulation	N/A
	a) Minimum Thickness of insulation: 0.4mm or	EL 2112-52		N/A
	b) Confirm with one of the specification and pass the relevant tests as per Table 2R	EL 2112-53		N/A
2.10.7	Component external terminations	EL 2112-54		N/A
2.10.8	Tests on coated printed boards and coated components			N/A
2.10.8.1	Sample preparation and preliminary inspection*	EL 2112-55		N/A
2.10.8.2	Thermal conditioning	EL 2112-56		N/A
2.10.8.3	Electric strength test	EL 2112-57		N/A
2.10.8.4	Abrasion resistance test	EL 2112-58		N/A
2.10.9	Thermal cycling	EL 2112-59	No such component	N/A
2.10.10	Test for Pollution Degree 1 environment and for insulating compound	EL 2112-60	Pollution degree II	N/A
2.10.11	Tests for semiconductor devices and for cemented joints	EL 2112-61		N/A
2.10.12	Enclosed and sealed parts	EL 2112-62		N/A

\*- Total number of Requirements to be observed / inspected = 10  
 Total No of applicable Requirement = 06  
 No of Requirements for which the sample passed= 06

Total number of tests to be conducted : 53  
 Total No of applicable Tests = 22  
 No. of tests for which the sample passed=22

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

.....  
 (Approving Authority)



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Tests relating to Wiring

EL 2113 – V1.4

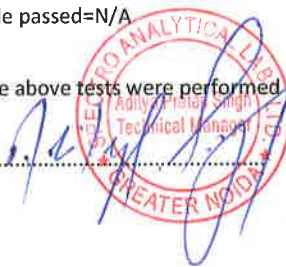
Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
3.0	Wiring, connections and supply*	EL 2113-00	See below	P
3.1.1	Current rating and overcurrent protection	EL 2113-01		N/A
3.1.2	Protection against mechanical damage*	EL 2113-02		N/A
3.1.3	Securing of internal wiring*	EL 2113-03		N/A
3.1.4	Insulation of conductors	EL 2113-04	No such conductor	N/A
3.1.5	Beads and ceramic insulators	EL 2113-05	No such insulators	N/A
3.1.6	Screws for electrical contact pressure*	EL 2113-06	No screws used for electrical contact pressure	N/A
3.1.7	Insulating materials in electrical connections*	EL 2113-07	No contact pressure through insulating material	N/A
3.1.8	Self-tapping and spaced thread screws*	EL 2113-08	No Self-tapping and spaced thread screws used	N/A
3.1.9	Termination of conductors : 10 N pull test	EL 2113-09	No such conductor	N/A
3.1.10	Sleeving on wiring*	EL 2113-10	Proper sleeving on wiring	P

\*- Total number of Requirements to be observed / inspected = 07  
 Total No of applicable Requirement = 02  
 No of Requirements for which the sample passed=02

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

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

.....  
 (Approving Authority)



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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	See below	P
3.2.1	Means of connection		Satisfactory	P
3.2.1.1	Connection to an a.c. mains supply*	EL 2114-01	Direct plug in equipment	P
3.2.1.2	Connection to a d.c. mains supply*	EL 2114-02	The Equipment is not intended to be connected to DC mains	N/A
3.2.2	Multiple supply connections	EL 2114-03	Single supply connections	N/A
3.2.3	Permanently connected equipment	EL 2114-04	Not 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	Direct plug in equipment	N/A
3.2.5	Power supply cords		Direct plug in equipment	N/A
3.2.5.1	AC power supply cords*	EL 2114-06	No AC power supply cord	N/A
	Rated current (A), cross-sectional area (mm <sup>2</sup> ), AWG		As above	N/A
3.2.5.2	DC power supply cords*	EL 2114-07	The EUT is not intended to be connected to be DC mains	N/A
3.2.6	Cord anchorages and strain relief			N/A
	Mass of the equipment: Pull Force (N):	EL 2114-08		N/A
	b) Longitudinal displacement: 2 mm (Max)	EL 2114-09		N/A
3.2.7	Protection against mechanical damage	EL 2114-10	No such sharp points or cutting edges	P
3.2.8	Cord guards		No cord guards	N/A
	a) Diameter or minor dimension D (mm) : Test mass (g) :	EL 2114-11		N/A
	b) Radius of curvature of cord : 1.5 D (Min)	EL 2114-12		N/A
3.2.9	Supply wiring space	EL 2114-13		N/A

Aditya Pratap Singh  
 Technical Manager  
 SPECTRO ANALYTICAL LABS LIMITED  
 GREATER NOIDA, INDIA



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

Total No of applicable Requirement = 02

No of Requirements for which the sample passed=02


Total number of tests to be conducted = 09

Total No of applicable Tests = 01

No. of tests for which the sample passed= 01

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

.....  
(Approving Authority)

*Anil Singh*  


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Tests relating to Wiring

EL 2115 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
3.3	Wiring terminals for connection of external conductors*	EL 2115-00	No such wiring terminal used	N/A
3.3.1	Wiring terminals*	EL 2115-01		N/A
3.3.2	Connection of non-detachable power supply cords	EL 2115-02		N/A
3.3.3	Screw terminals*	EL 2115-03	No such screw terminal	N/A
3.3.4	Conductor sizes to be connected	EL 2115-04		N/A
	Rated current (A), cord/cable type, cross-sectional area (mm <sup>2</sup> )			N/A
3.3.5	Wiring terminal sizes	EL 2115-05		N/A
	Rated current (A), type, nominal thread diameter (mm)			N/A
3.3.6	Wiring terminal design	EL 2115-06		N/A
3.3.7	Grouping of wiring terminals*	EL 2115-07		N/A
3.3.8	Stranded wire	EL 2115-08		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 in the requirement tested.

.....  
 (Approving Authority)

*(Signature)*  


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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	See below	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	Satisfactory	P
3.4.2	Disconnect devices*	EL 2116-02	Plug is used as disconnect device (Direct plug-in equipment )	P
3.4.3	Permanently connected equipment*	EL 2116-03	Not permanently connected equipment	N/A
3.4.4	Parts which remain energized*	EL 2116-04	No such parts remain energized	N/A
3.4.5	Switches in flexible cords*	EL 2116-05	No such flexible cords used	N/A
3.4.6	Number of poles - single-phase and d.c. equipment*	EL 2116-06	Plug is used as disconnect device which 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	Plug is used as disconnect device	N/A
3.4.9	Plugs as disconnect devices*	EL 2116-09	As above	N/A
3.4.10	Interconnected equipment*	EL 2116-10	No interconnection to circuit with hazardous voltage and hazardous energy level	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 in the requirement tested.

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Tests relating to Wiring

**EL 2117 – V1.4**

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

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

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 (Approving Authority)

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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	See below	N/A
4.1	Stability	EL 2118-01		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 7 kg	N/A
	b) A floor-standing unit having a mass of 25 kg or more shall not fall over when a force equal to 20 % of the weight of the unit, but not more than 250 N, is applied in any direction except upwards, at a height not exceeding 2 m from the floor.	EL 2118-03	No 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	No floor standing equipment	N/A

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

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

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

.....  
 (Approving Authority)

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Tests relating to Mechanical Properties

EL 2119 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
4.2	Mechanical Strength	EL 2119-00	See below	P
4.2.1	General	EL 2119-01	Considered	P
4.2.2	Steady force test, 10 N	EL 2119-02	10N Applied to parts other than serving enclosure	p
4.2.3	Steady force test, 30 N	EL 2119-03	No such door and cover	N/A
4.2.4	Steady force test, 250 N	EL 2119-04	Enclosure withstood the steady force test of 250N	P
4.2.5	Impact testish	EL 2119-05	Transportable equipment	N/A
	a) Fall test as per Fig. 4A	EL 2119-06	As above	N/A
	b) Swing test as per Fig. 4A	EL 2119-07	As above	N/A
4.2.6	Drop test; height (mm) :	EL 2119-08	Equipment is dropped from the height 1000mm. No damage or breakage observed after the test.	P
4.2.7	Stress relief test	EL 2119-09	No shrinkage or distortion observed in external enclosure	P
4.2.8	Cathode Ray Tubes	EL 2119-10	No cathode ray tube	N/A
4.2.9	High Pressure Lamps*	EL 2119-11	No high pressure lamps	N/A
4.2.10	Wall or ceiling mounted equipment; force(N)	EL 2119-12	No such equipment	N/A

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

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

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

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Tests relating to Mechanical Properties

EL 2120 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
4.3	Design and Construction*	EL 2120-00	See below	P
4.3.1	Edges and corners*	EL 2120-01	Edges and corners of the enclosure are well rounded	P
4.3.2	Handles and manual controls; force (N).....	EL 2120-02	No handles and manual controls used	N/A
4.3.3	Adjustable controls	EL 2120-03	No safety relevant adjustable controls provided	N/A
4.3.4	Securing of parts	EL 2120-04	All parts are secured	P
4.3.5	Connections by Plugs and Sockets*	EL 2120-05	No mismatch connection by plugs and sockets	P
4.3.6	Direct plug-in equipment	EL 2120-06	See below	P
	Torque	EL 2120-07	Torque shall not exceed 0.25Nm	P
	Compliance with the relevant mains plug standard	EL 2120-08	Satisfactory	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 Comply with IEC 62133.		No battery in the equipment	N/A
	a) Overcharging of a rechargeable battery	EL 2120-10		N/A
	b) Unintentional charging of a non-rechargeable battery	EL 2120-11		N/A
	c) Reverse charging of a rechargeable battery	EL 2120-12		N/A
	d) Excessive discharging rate for any battery	EL 2120-13		N/A
	e) Electric strength as per Cl.5.3.9.2	EL 2120-14		N/A
4.3.9	Oil & grease*	EL 2120-15	No Oil & Grease	N/A
4.3.10	Dust, powders, liquids and gases	EL 2120-16	Equipment does not produce dust, powder, liquids and gases	N/A
4.3.11	Containers for liquids or gases	EL 2120-17	No such containers	N/A
4.3.12	Flammable liquids	EL 2120-18	No flammable liquid	N/A
4.3.13	Radiation		See below	N/A
4.3.13.2	Ionizing radiation	EL 2120-19	No ionizing radiation	N/A
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	EL 2120-20	No UV radiation	N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation	EL 2120-21		N/A
4.3.13.5	Lasers (including laser diodes) and LED's:		No LED indicator used	N/A
4.3.13.5.1	Lasers (including laser diodes) For laser see IEC 60825-1, respective part as applicable.	EL 2120-22	No laser used	N/A
	Laser class .....			N/A
4.3.13.5.2	Light emitting diodes (LED's)	EL 2120-23	No such LED	N/A

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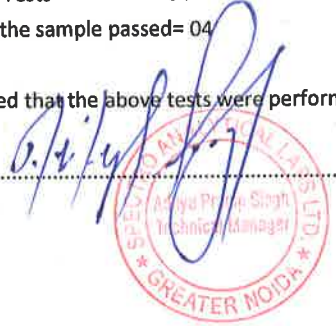
4.3.13.6	Other types*	EL 2120-24	N/A
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\*- Total number of Requirements to be observed / Inspected = 06  
 Total No of applicable Requirement = 03  
 No of Requirements for which the sample passed= 03

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 in the requirement tested.

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Tests relating to Mechanical Properties

**EL 2121 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
4.4	Protection against hazardous moving parts	EL 2121-00	See below	N/A
4.4.1	General	EL 2121-01	No hazardous moving part	N/A
4.4.2	Protection in operator access areas	EL 2121-02		N/A
4.4.3	Protection in restricted access locations *	EL 2121-03	Not intended to be installed in restricted access location	N/A
4.4.4	Protection in service access areas*	EL 2121-04	No service access areas	N/A
4.4.5	Protection against moving fan blades	EL 2121-05		N/A
4.4.5.1	General*	EL 2121-06	m = r = N = K =	N/A
	Not considered likely to cause pain or injury. a).....:	EL 2121-07	$\frac{r}{15000} + \frac{K \text{ factor}}{2400}$	N/A
	Is considered likely to cause pain, not injury. b)	EL 2121-08	$\frac{r}{22000} + \frac{K \text{ factor}}{3600}$	N/A
	Considered likely to cause injury. c).....:	EL 2121-09		N/A
4.4.5.2	Protection for users*	EL 2121-10		N/A
	Use of symbol or warning*	EL 2121-11		N/A
4.4.5.3	Protection for service persons*	EL 2121-12		N/A
	Use of symbol or warning *	EL 2121-13		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 = 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 in the requirement tested.

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Tests relating to Thermal Properties

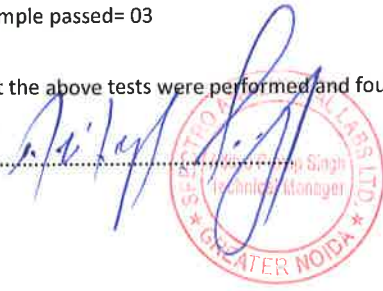
EL 2122 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
4.5	Thermal Requirements*	EL 2122-00	See below	P
4.5.1	General	EL 2122-01	Satisfactory (See table 4.5)	P
4.5.2	Temperature tests under normal load condition as per Cl.1.4.5	EL 2122-02	Operating the EUT under normal load condition until obtaining the steady state condition (See table 4.5)	P
4.5.3	Temperature limits for materials*	EL 2122-03	Temperature rise of different parts is still complying the relevant requirement of this standard (See table 4.5)	P
4.5.4	Touch temperature limits*	EL 2122-04	Touch temperature limits is still complying the relevant requirement of this standard (See table 4.5)	P
4.5.5	Resistance to abnormal heat	EL 2122-05	Satisfactory (See table 4.5.5)	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 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	See below	N/A
4.6.1	Top and side openings	EL 2123-01	No opening enclosure are available in this Equipment	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		N/A
4.6.4	Openings in transportable equipment	EL 2123-04		N/A
4.6.4.1	Constructional design measures	EL 2123-05		N/A
	Dimensions (mm)			N/A
4.6.4.2	Evaluation measures for larger openings	EL 2123-06		N/A
4.6.4.3	Use of metallized parts	EL 2123-07		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		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		N/A
	After temperature conditioning b) Leave the sample between 20°C to 30°C for 1 hour	EL 2123-10		N/A
	c) Place the sample at - 40°C±2°C for 4 hours	EL 2123-11		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		N/A
	e) Place the sample in a cabinet at 91 % to 95 % relative humidity for 72 h;	EL 2123-13		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		N/A
	g) Place the sample in an oven at the temperature used for the temperature conditioning for 4 h;	EL 2123-15		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		N/A

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	l) The sample is then immediately subjected to the tests of Cl.4.2 as applicable.	EL 2123-17		N/A
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\*- Total number of Requirements to be observed / inspected = 02  
 Total No of applicable Requirement = 00  
 No of Requirements for which the sample passed= N/A

Total number of tests to be conducted = 16  
 Total No of applicable Tests = 00  
 No. of tests for which the sample passed= N/A

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

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 (Approving Authority)

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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	Satisfactory	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	Material with suitable flammability classes are used	P
	Method 2, application of all of simulated fault condition tests	EL 2124-02	Method 1 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	Fire enclosure is required to cover all parts	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	Propagation of fire is minimized through the fire enclosure construction	P
	a) Class of material used*	EL 2124-07	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		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	Components are mounted approved class of material (see table 1.5.1)	P
4.7.3.2	Materials for fire enclosures		See appended table 1.5.1	P
	a) For MOVABLE EQUIPMENT having a total mass not exceeding 18 kg, the material of a FIRE ENCLOSURE, in the thinnest significant wall thickness used, shall be of V-1 CLASS MATERIAL or shall pass the test of Clause A.2.	EL 2124-10	Approved Plastic material used (see table 1.5.1)	P
	b) For MOVABLE EQUIPMENT having a total mass exceeding 18 kg and for all STATIONARY EQUIPMENT, the material of a FIRE ENCLOSURE, in the thinnest significant wall thickness used, shall be of 5VB CLASS MATERIAL or shall pass the test of Clause A.1.	EL 2124-11	Equipment is less than 18 kg	N/A

  
 Aditya Pratej Singh  
 Technical Manager

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	c) Materials for components that fill an opening in a FIRE ENCLOSURE, and that are intended to be mounted in this opening shall : be of V-1 CLASS MATERIAL; or pass the tests of Clause A.2; or comply with the flammability requirements of the relevant IEC component standard	EL 2124-12		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	EL 2124-14		N/A
4.7.3.3	Materials for components and other parts outside fire enclosures *		No parts outside of fire enclosure	N/A
	a) Materials shall be of : - HB75 CLASS MATERIAL if the thinnest significant thickness of this material is < 3 mm, or - HB40 CLASS MATERIAL if the thinnest significant thickness of this material is ≥ 3 mm, or - HBF CLASS FOAMED MATERIAL.*	EL 2124-15		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		N/A
4.7.3.4	Materials for components and other parts inside fire enclosures		Satisfactory	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	All components are mounted on approved class of material (See table 1.5.1)	P
	Requirements for voltage dependent resistors (VDR's) are in Annex Q.*	EL 2124-18	No such component	N/A
4.7.3.5	Materials for air filter assemblies : Air filter assemblies shall be constructed of V-2 CLASS MATERIAL, or HF-2 CLASS FOAMED MATERIAL.	EL 2124-19	No air filter assemblies	N/A
4.7.3.6	Materials used in high-voltage components		No high voltage components	N/A
	a) High-voltage components operating at peak-to-peak voltages exceeding 4 kV shall either be of V-2 CLASS MATERIAL, or HF-2 CLASS FOAMED MATERIAL, or comply with 14.4 of IEC 60065 or pass the needle flame test according to IEC 60695-11-5.	EL 2124-20	Voltage not exceeding 4kV	N/A
	b) Compliance is checked by inspection of the equipment and material data sheets and, if necessary, by – the tests for V-2 CLASS MATERIAL or HF-2 CLASS FOAMED MATERIAL; or – the test described in 14.4 of IEC 60065; or – the needle flame test according to IEC 60695-11-5.	EL 2124-21		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

  
*(Signature)*

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

Total No of applicable Requirement = 05

No of Requirements for which the sample passed= 05

Total number of tests to be conducted = 18

Total No of applicable Tests = 05

No. of tests for which the sample passed= 05

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

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(Approving Authority)





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Tests relating to Insulating Properties

EL 2125 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
5.0	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS*	EL 2125-00	See below	P
5.1	Touch current and protective conductor current*	EL 2125-01	Satisfactory	P
5.1.2	Configuration of equipment under test (EUT)*	EL 2125-02	See below	P
5.1.2.1	Single connection to an a.c. mains supply*	EL 2125-03	Equipment has only single a.c. mains connection	P
5.1.2.2	Redundant multiple connections to an a.c. mains supply*	EL 2125-04	No multiple power sources	N/A
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply	EL 2125-05	No multiple power sources	N/A
5.1.3	Test circuit	EL 2125-06	See below	P
5.1.4	Application of measuring instrument	EL 2125-07	Testing using D-1 measuring instrument	P
5.1.5	Test procedure	EL 2125-08	Applied	P
5.1.6	Test measurements		See table 5.1.6	P
	a) Value of voltage, U <sub>2</sub> measured using the instrument as per Fig. D.1	EL 2125-09	See table 5.1.6	P
	b) Measured touch current (mA):	EL 2125-10	See table 5.1.6	P
	c) Calculated value of TOUCH CURRENT (A) = U <sub>2</sub> / 500	EL 2125-11	See table 5.1.6	P
	d) Measured protective conductor current(mA)	EL 2125-12	See table 5.1.6	P
	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	See below	N/A
5.1.7.1	General	EL 2125-15	The touch current not exceeded 3.5 mA	N/A
5.1.7.2	Simultaneous multiple connections to the supply	EL 2125-16		N/A
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks	EL 2125-17	No connection to the telecommunication network or cable distribution system	N/A
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system	EL 2125-18		N/A
	Supply voltage (V)			N/A
	Measured touch current (mA)			N/A
	Max. allowed touch current (mA)			N/A
5.1.8.2	Summation of touch currents from telecommunication networks	EL 2125-19	No connection to the telecommunication network or cable distribution	N/A
	a) EUT with earthed telecommunication ports :			N/A

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b) EUT whose telecommunication ports have no reference to protective earth			N/A
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\*- Total number of Requirements to be observed / inspected = 05  
 Total No of applicable Requirement = 04  
 No of Requirements for which the sample passed= 04

Total number of tests to be conducted = 15  
 Total No of applicable Tests = 07  
 No. of tests for which the sample passed= 07

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

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Tests relating to Insulating Properties

**EL 2126 – V1.4**

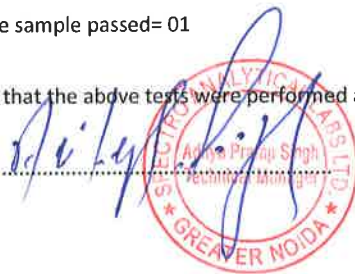
Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
5.2	Electric strength*	EL 2126-00	See below	P
5.2.1	General*	EL 2126-01	See appended table 5.2	P
5.2.2	Test procedure		Table 5B Used	P
	a) The test voltages for electric strength for the appropriate grade of insulation [FUNCTIONAL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

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

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

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

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Tests relating to Insulating Properties

EL 2127 – V1.4

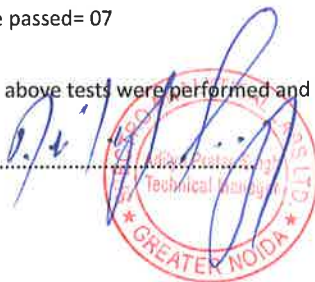
Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
5.3	Abnormal operating and fault conditions	EL 2127-00	See below	P
5.3.1	Protection against overload and abnormal operation	EL 2127-01	See appended table 5.3	P
5.3.2	Motors	EL 2127-02	No such motor used	N/A
5.3.3	Transformers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

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

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

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

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Tests relating to Communicating Connection

EL 2128 – V1.4

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

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

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

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

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 (Approving Authority)



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Tests relating to Communicating Connection

**EL 2129 – V1.4**

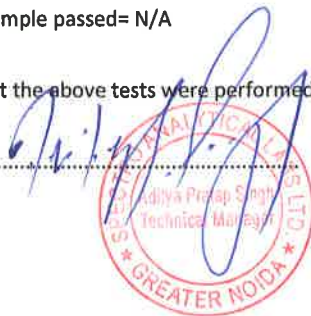
Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
6.2	Protection of equipment users from overvoltages on telecommunication networks*	EL 2129-00	No connection to telecommunication networks	N/A
6.2.1	Separation requirements	EL 2129-01		N/A
6.2.2	Electric strength test procedure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

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 (Approving Authority)



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Tests relating to Communicating Connection

EL 2130 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
6.3	Protection of the telecommunication wiring system from overheating	EL 2130-00	No connection to telecommunication networks	N/A
	a) If current limiting is due to the inherent impedance of the power source, the output current into any resistive load, including a short-circuit, is measured. The current limit shall not be exceeded after 60 s of test. Max. output current (A) :	EL 2130-01		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		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		N/A
	d) If current limiting is provided by an overcurrent protective device that does not have a specified time/current characteristic: – the output current into any resistive load, including a short-circuit, shall not exceed the current limit after 60 s of test; and – the output current into any resistive load, including a short-circuit, with the overcurrent protective device bypassed, measured after 60 s of test, shall not exceed $1000/U$ , where U is the output voltage measured in accordance with 1.4.5 with all load circuits Disconnected.	EL 2130-04		N/A

  
 Adilvir Prasad Singh  
 Technician  
 Greater Noida, India

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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 = 05

Total No of applicable Tests = 00

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

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

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Tests relating to Connection to cable distribution system

**EL 2131 – V1.4**

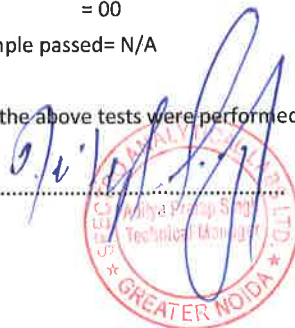
Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
7	Connection to cable distribution systems*	EL 2131-00	No connection to cable distribution system	N/A
7.1	General requirements*	EL 2131-01		N/A
7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment	EL 2131-02		N/A
7.3	Protection of equipment users from overvoltages on the cable distribution system	EL 2131-03		N/A
7.4	Insulation between primary circuits and cable distribution systems	EL 2131-04		N/A
7.4.1	General	EL 2131-05		N/A
7.4.2	Voltage surge test	EL 2131-06		N/A
7.4.3	Impulse test	EL 2131-07		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 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 is less than 18 Kg	N/A
A.1.1	Samples:	EL 2132-02		N/A
	Wall thickness (mm):			N/A
A.1.2	Conditioning of samples; temperature (°C) :	EL 2132-03		N/A
A.1.3	Mounting of samples :	EL 2132-04		N/A
A.1.4	Test flame (see IEC 60695-11-3)	EL 2132-05		N/A
	Flame A, B, C or D :			N/A
A.1.5	Test procedure	EL 2132-06		N/A
A.1.6	Compliance criteria	EL 2132-07		N/A
	Sample 1 burning time (s):			N/A
	Sample 2 burning time (s):			N/A
	Sample 3 burning time (s):			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 materials used (See table 1.5.1)	P
A.2.1	Samples, material:	EL 2132-09		N/A
	Wall thickness (mm):			N/A
A.2.2	Conditioning of samples; temperature (°C) :	EL 2132-10		N/A
A.2.3	Mounting of samples :	EL 2132-11		N/A
A.2.4	Test flame (see IEC 60695-11-4)	EL 2132-12		N/A
	Flame A, B or C :			N/A
A.2.5	Test procedure	EL 2132-13		N/A
A.2.6	Compliance criteria	EL 2132-14		N/A
	Sample 1 burning time (s):			N/A
	Sample 2 burning time (s):			N/A
	Sample 3 burning time (s):			N/A
A.2.7	Alternative test acc. to IEC 60695-11-5, cl. 5 and 9	EL 2132-15		N/A
	Sample 1 burning time (s):			N/A
	Sample 2 burning time (s):			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
	Sample 3 burning time (s):			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		N/A
A.3.2	Test procedure	EL 2132-18		N/A
A.3.3	Compliance criterion	EL 2132-19		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 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	See below	N/A
B.1	General requirements	EL 2133-01	No such motor used	N/A
	Position :			N/A
	Manufacturer :			N/A
	Type :			N/A
	Rated values :			N/A
B.2	Test conditions	EL 2133-02		N/A
B.3	Maximum temperatures	EL 2133-03		N/A
B.4	Running overload test	EL 2133-04		N/A
B.5	Locked-rotor overload test	EL 2133-05		N/A
	Test duration (days):			N/A
	Electric strength test: test voltage (V) :			N/A
B.6	Running overload test for d.c. motors in secondary circuits	EL 2133-06		N/A
B.6.1	General	EL 2133-07		N/A
B.6.2	Test procedure	EL 2133-08		N/A
B.6.3	Alternative test procedure	EL 2133-09		N/A
B.6.4	Electric strength test; test voltage (V):	EL 2133-10		N/A
B.7	Locked-rotor overload test for d.c. motors in secondary circuits	EL 2133-11		N/A
B.7.1	General	EL 2133-12		N/A
B.7.2	Test procedure	EL 2133-13		N/A
B.7.3	Alternative test procedure	EL 2133-14		N/A
B.7.4	Electric strength test; test voltage (V) :	EL 2133-15		N/A
B.8	Test for motors with capacitors	EL 2133-16		N/A
B.9	Test for three-phase motors	EL 2133-17		N/A
B.10	Test for series motors	EL 2133-18		N/A
	Operating voltage (V) :			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 in the requirement tested.

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Tests relating to Electrical Safety

**EL 2134 – V1.4**

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

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

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

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

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Tests relating to Insulating Properties

EL 2135 – V1.4

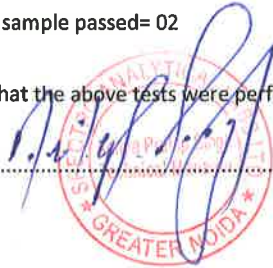
Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
D	ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4)	EL 2135-00	Satisfactory (See Clause 5.1.4)	P
D.1	Measuring instrument	EL 2135-01	Satisfactory	P
D.2	Alternative measuring instrument	EL 2135-02		N/A

\*- 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 = 02  
 No. of tests for which the sample passed= 02

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

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Tests relating to Thermal Properties

**EL 2136- V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
E	ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13)	EL2136-00		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 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	Satisfactory (See clause 2.10)	P

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

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

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

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Tests relating to Electrical safety

**EL 2138 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
G	ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES	EL 2138-00		N/A
G.1	Clearances	EL 2138-01		N/A
G.1.1	General	EL 2138-02		N/A
G.1.2	Summary of the procedure for determining minimum clearances	EL 2138-03		N/A
G.2	Determination of mains transient voltage (V)	EL 2138-04		N/A
G.2.1	AC Mains supply	EL 2138-05		N/A
G.2.2	Earthed d.c. mains supplies	EL 2138-06		N/A
G.2.3	Unearthed d.c. mains supplies	EL 2138-07		N/A
G.2.4	Battery operation	EL 2138-08		N/A
G.3	Determination of telecommunication network transient voltage (V)	EL 2138-09		N/A
G.4	Determination of required withstand voltage (V)	EL 2138-10		N/A
G.4.1	Mains transients and internal repetitive peaks	EL 2138-11		N/A
G.4.2	Transients from telecommunication networks:	EL 2138-12		N/A
G.4.3	Combination of transients	EL 2138-13		N/A
G.4.4	Transients from cable distribution systems	EL 2138-14		N/A
G.5	Measurement of transient voltages (V)	EL 2138-15		N/A
	a) Transients from a mains supply			N/A
	For an a.c. mains supply			N/A
	For a d.c. mains supply			N/A
	b) Transients from a telecommunication network			N/A
G.6	Determination of minimum clearances	EL 2138-16		N/A

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

Total No of applicable Requirement = 00

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

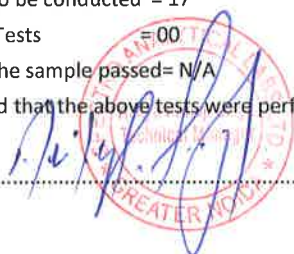
Total number of tests to be conducted = 17

Total No of applicable Tests = 00

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

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

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 (Approving Authority)



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Tests relating to Radiation Safety

**EL 2139 – V1.4**

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

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

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

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

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 (Approving Authority)



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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 Such parts	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 in the requirement tested.

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 (Approving Authority)

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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	See below	N/A
K.1	Making and breaking capacity	EL 2141-01	No thermal control inside the equipment	N/A
K.2	Thermostat reliability; operating voltage (V) :	EL 2141-02		N/A
K.3	Thermostat endurance test; operating voltage (V) :	EL 2141-03		N/A
K.4	Temperature limiter endurance; operating voltage (V) :	EL 2141-04		N/A
K.5	Thermal cut-out reliability	EL 2141-05		N/A
K.6	Stability of operation	EL 2141-06		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 in the requirement tested.

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 (Approving Authority)

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Tests relating to General Requirement

EL 2142 – V1.4

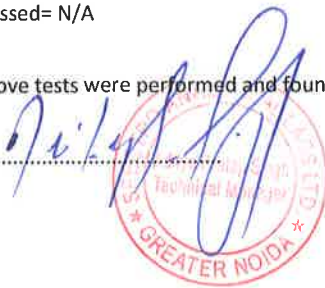
Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
L	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)*	EL 2142-00	Satisfactory	P
L.1	Typewriters*	EL 2142-01	No typewriters used	N/A
L.2	Adding machines and cash registers*	EL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

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

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

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

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 (Approving Authority)



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Tests relating to Electrical Safety

**EL 2143 – V1.4**

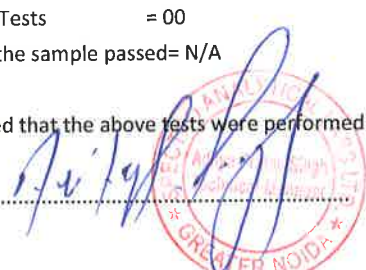
Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
M	ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)	EL 2143-00	See below	N/A
M.1	Introduction*	EL 2143-01	No telephone ringing signals	N/A
M.2	Method A	EL 2143-02		N/A
M.3	Method B	EL 2143-03		N/A
M.3.1	Ringling signal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

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 (Approving Authority)



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Tests relating to Electrical safety

EL 2144 – V1.4

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

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 (Approving Authority)





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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 in the requirement tested.

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 (Approving Authority)

Technical Manager  
 GREATER NOIDA

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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	See table 1.5.1	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 table 1.5.1	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 table 1.5.1	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 table 1.5.1	N/A
	c) Combined pulse :	EL 2146-01	See table 1.5.1	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 table 1.5.1	N/A

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

Total No of applicable Requirement = 00

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

Total number of tests to be conducted = 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 in the requirement tested.

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 (Approving Authority)



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Tests relating to General Requirement

EL 2147-V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES*	EL 2147-00	See below	N/A
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)*	EL 2147-01	No coated printed wiring boards	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 in the requirement tested.

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 (Approving Authority)



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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	No such equipment	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 in the requirement tested.

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 (Approving Authority)

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Tests relating to Protection against Ingress of water

EL 2149 – V1.4

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

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

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

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

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 (Approving Authority)



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Tests relating to Wiring

**EL 2150 – V1.4**

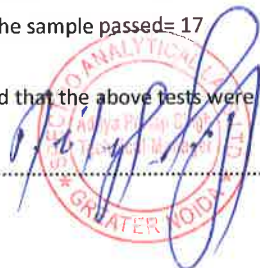
Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
U	ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)	EL2150-00	See below	P
U.1	GENERAL	EL2150-01	Approved insulated wire is used (see table 1.5.1)	P
U.2	TYPE TESTS	EL2150-02	See above	P
U.2.1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

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

Total number of tests to be conducted = 17  
 Total No of applicable Tests = 17  
 No. of tests for which the sample passed= 17

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

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 (Approving Authority)



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Tests relating to Electrical Safety

**EL 2151 – V1.4**

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

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

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

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

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 (Approving Authority)



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Tests relating to Electrical Safety

EL 2152 – V1.4

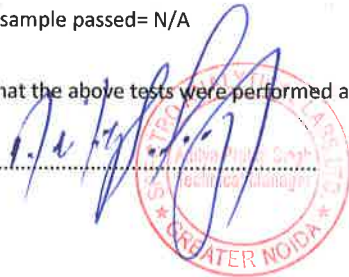
Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
W	ANNEX W, SUMMATION OF TOUCH CURRENTS *	EL 2152-00	No connection to the telecommunication network or cable distribution	N/A
W.1	Touch current from electronic circuits*	EL 2152-01		N/A
W.1.1	Floating circuits*	EL 2152-02		N/A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

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 (Approving Authority)





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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	Complies	P
X.1	Determination of maximum Input current*	EL 2153-01	See Table 5.3	P
X.2	Overload test procedure*	EL 2153-02	Electronic Protection	P

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

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

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

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 (Approving Authority)



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Tests relating to Radiation Safety

EL 2154– V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
Y	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)	EL 2154-00	No ultraviolet light	N/A
Y.1	Test apparatus .....	EL 2154-01		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 in the requirement tested.

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 (Approving Authority)



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**Tests relating to Electrical Safety**

**EL 2155- V1.4**

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

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

Total No of applicable Requirement = 01

No of Requirements for which the sample passed= 01

Total number of tests to be conducted = 00

Total No of applicable Tests = 00

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

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

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 (Approving Authority)



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Tests relating to Mechanical Properties

**EL 2156 – V1.4**

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

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

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

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

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 (Approving Authority)

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Tests relating to Electrical Safety

EL 2158 – V1.4

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

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 (Approving Authority)



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Tests relating to Mechanical Properties

**EL 2159 – V1.4**

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

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 (Approving Authority)



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Tests relating to Mechanical Properties

EL 2160 – V1.4

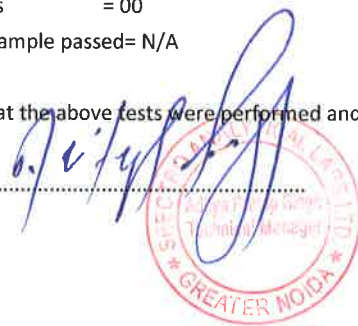
Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
EE	ANNEX EE, Household and home/office document/media shredders	EL 2160-00	The equipment is not a household and home/office document/media shredders.	N/A
EE.1	General			N/A
EE.2	Markings and instructions*	EL 2160-01		N/A
	Use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

.....  
 (Approving Authority)



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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 <sup>1</sup>
Plastic enclosure and Plug holder	SABIC INNOVATIVE PLASTICS B V	SE1X(GG)(f1)	Min.V-1, min. 2.0mm thickness, 105°C	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E45329
Alternate	SABIC JAPAN L L C	SE1X(GG)(C)(f1)	Min.V-1, min. 2.0mm thickness, 105°C	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E207780
Alternate	SABIC JAPAN L L C	945(GG)	Min.V-0, min. 2.0mm thickness, 130°C	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E207780
Alternate	SABIC INNOVATIVE PLASTICS US L L C	915R(GG)	Min. V-0, min. 2.0 mm thickness, 120°C	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E121562
Alternate	TEIJIN CHEMICALS LTD	LN-1250P(#)(f1), LN-1250G(#)(*)	Min. V-0 at 1.5 mm thickness, 115°C	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E50075
Alternate	LG CHEM (GUANGZHOU) ENGINEERING PLASTICS CO LTD	LUPOY EF- 1006F(m)	Min. V-0, min. 2.5 mm thickness, 125°C	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E248280
Alternate	COVESTRO DEUTSCHLAN D AG [PC RESINS]	FR6005 + (z)	Min. V-0, min. 2.0 mm thickness, 105°C	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E41613
Alternate	SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD	PC2330	Min. V-0, min. 2.0 mm thickness, 115°C	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E225348
PCB	CHEERFUL PLASTIC ELECTRONIC PRODUCTS	02	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796 (No such equivalent IEC available)	UL E199724
Alternate	WALEX ELECTRONIC (WUXI) CO LTD	T2, T2A, T2B, T4	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796 (No such equivalent IEC available)	UL E154355
Alternate	YUANMAN PRINTED CIRCUIT CO LTD	1V0	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796 (No such equivalent IEC available)	UL E74757
Alternate	GUANGDE XINKE ELECTRONICS CO LTD	XK-2,XK1	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796 (No such equivalent IEC available)	UL E231590
Alternate	GUANGDONG HETONG TECHNOLOGY CO LTD	CEM1, 2V0, FR4	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796 (No such equivalent IEC available)	UL E243157
Alternate	CHEERFUL PLASTIC ELECTRONIC PRODUCTS	03, 03A	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796 (No such equivalent IEC available)	UL E199724
Alternate	JIANGSU DIFEIDA ELECTRONICS CO LTD	DFD-1	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796 (No such equivalent IEC available)	UL E213009



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Alternate	DONGGUAN DAYSUN ELECTRONIC CO LTD	DS2	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796 (No such equivalent IEC available)	UL E251754
Alternate	SUZHOU CITY YILIHUA ELECTRONICS CO LTD	YLH-1	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796 (No such equivalent IEC available)	UL E251781
Alternate	DAFENG AREX ELECTRONICS TECHNOLOGY CO LTD	02V0, 03V0, 04V0	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796 (No such equivalent IEC available)	UL E186016
Alternate	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DKV0-3A, DGV0-3A	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796 (No such equivalent IEC available)	UL E177671
Alternate	KUOTIANG ENT LTD	C-2, C-2A	Min. V-0, min 1.6 mm thickness, 130°C	UL 796 (No such equivalent IEC available)	UL E227299
Alternate	PACIFIC WIN INDUSTRIAL LTD	PW-02 PW-03	Min. V-0, min 1.6 mm thickness, 130°C	UL 796 (No such equivalent IEC available)	UL E228070
Alternate	SHENZHEN TONGCHUANGXIN ELECTRONICS CO LTD	TCX	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796 (No such equivalent IEC available)	UL E250336
Alternate	SHANGHAI H-FAST ELECTRONICS CO LTD	211001	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796 (No such equivalent IEC available)	UL E337862
Alternate	JIANGXI ZHONG XIN HUA ELECTRONICS INDUSTRY CO LTD	ZXH-2	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796 (No such equivalent IEC available)	UL E331298
Alternate	SHUANG MING INDUSTRY CO LTD	T005V0	Min. 1,6 mm thickness, min. V-0, 130°C	UL 796 (No such equivalent IEC available)	UL E78017
Fuse (FS1)	Conquer Electronics Co., Ltd.	MST	T2A, 250V	IEC 60127-1 IEC 60127-3 UL 248-1, UL 248-14 (No such equivalent IEC available)	VDE 40017118  UL E82636
Alternate	Suzhou Walter Electronic Co. Ltd.	2010 Serie(s)	T2A, 250V	IEC 60127-1 IEC 60127-3	VDE 40018781
Alternate	Ever Island Electric Co., Ltd. & Walter Electric	2010	T2A, 250V	UL 248-1, UL 248-14 (No such equivalent IEC available)	UL E220181
Alternate	Bel Fuse Ltd.	RST	T2A, 250V	IEC 60127-1 IEC 60127-3	VDE 40011144
Alternate	BEL FUSE LTD	RSTA	T2A, 277V	UL 248-1, UL 248-14 (No such equivalent IEC available)	UL E506667
Alternate	Cooper Bussmann LLC	SS-5	T2A, 250V	IEC 60127-1 IEC 60127-3	VDE 40015513
Alternate	Cooper Bussmann LLC	SS-5F	T2A, 250V	UL 248-1, UL 248-14 (No such equivalent IEC available)	UL E19180

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Alternate	LITTELFUSE INC	392 392 +	T2AL, 250 Vac	IEC 60127-1 IEC 60127-3 UL 248-1, UL 248-14 (No such equivalent IEC available)	VDE 126983 UL E67006
Alternate	Dongguan Better Electronics Technology Co., Ltd.	932	T2A, 250V	IEC 60127-1 IEC 60127-3 UL 248-1, UL 248-14 (No such equivalent IEC available)	VDE 40033369 UL E300003
Alternate	Hollyland Company Limited	5ET	T2A, 250V	IEC 60127-1 IEC 60127-3	VDE 40015669
X capacitor (CX1) (optional)	Cheng Tung Industrial Co., Ltd.	CTX series	Max 0.33µF, Min.250V,100°C X1 or X2	IEC/EN 60384-14	ENEC-01396-M1
Alternate	Cheng Tung Industrial Co., Ltd.	CTX	Max 0.33µF, Min.250V,100°C X1 or X2	UL 60384-14 (No such equivalent IEC available)	UL E193049
Alternate	Tenta Electric Industrial Co. Ltd.	MEX	Max 0.33µF, Min.250V,100°C X1 or X2	IEC/EN 60384-14 UL 60384-14 (No such equivalent IEC available)	VDE 119119 UL E222911
Alternate	Joey Electronics (Dong Guan) Co., Ltd.	MPX	Max 0.33µF, Min.250V,100°C X1 or X2	IEC/EN 60384-14 UL 60384-14 (No such equivalent IEC available)	VDE 40032481 UL E216807
Alternate	Ultra Tech Xiphi Enterprise Co. Ltd.	HQX	Max 0.33µF, Min.250V,100°C X1 or X2	IEC/EN 60384-14 UL 60384-14 (No such equivalent IEC available)	VDE 40015608 UL E183780
Alternate	Xiangtai Electronic (Shenzhen) Co., Ltd.	MKP/MPX	Max 0.33µF, Min.250V,100°C X1 or X2	IEC/EN 60384-14 UL 60384-14 (No such equivalent IEC available)	VDE 40036065 UL E357475
Alternate	Carli Electronics Co., Ltd.	MPX	Max 0.33µF, Min.250V,100°C X1 or X2	IEC/EN 60384-14 UL 60384-14 (No such equivalent IEC available)	VDE 40008520 UL E120045
Alternate	Dain Electronics Co., Ltd.	MEX, MPX, NPX	Max 0.33µF, Min.250V,100°C X1 or X2	IEC/EN 60384-14 UL 60384-14 (No such equivalent IEC available)	VDE 40018798 UL E147776
Y capacitor (CY1) (optional)	TDK Corporation	CD	Min.250V, Min.125°C Y1	IEC/EN 60384-14 UL 60384-14 (No such equivalent IEC available)	VDE 40029780 UL E37861
Alternate	Success Electronics Co., Ltd.	SB	Min.250V, Min.125°C, Y1	IEC/EN 60384 14	VDE 40037221
		SE		IEC/EN 60384-14	VDE 40037211
		SE, SB, SF		UL 60384-14 (No such equivalent IEC available)	UL E114280

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Alternate	Walsin Technology Corp.	AH	Min.250V, Min.125°C Y1	IEC/EN 60384-14	VDE 40001804
		AH Series (#){&}		UL 60384-14 (No such equivalent IEC available)	UL E146544
Alternate	Haohua Electronic Co.	CT7	Min.250V, Min.125°C Y1	IEC/EN 60384-14 UL 60384-14 (No such equivalent IEC available)	VDE 40003902 UL E233106
Alternate	Xiangtai Electronic (Shenzhen) Co., Ltd.	YO-series	Min.250V, Min.125°C Y1	IEC/EN 60384-14	VDE 40036880
		YOB		UL 60384-14 (No such equivalent IEC available)	UL E319473
Alternate	JUHONG ELECTRONICS LTD	JB- series	Min.250V, Min.125°C Y1	IEC/EN 60384-14	VDE 40035339
Alternate	JUHONG ELE COMPANY	JB	Min.250V, Min.125°C Y1	UL 60384-14 (No such equivalent IEC available)	UL E253194
Alternate	Murata Mfg. Co., Ltd.	KX, 2nd reduced version	Y1, min. 250VAC, max 4700pF	IEC/EN 60384-14	VDE 40002831
		KX \$\$		UL 60384-14 (No such equivalent IEC available)	UL E37921
Photo Coupler (U1)	Everlight Electronics Co., Ltd.	EL817	Dti=0.5mm Int. dcr=6.0mm EXT.dcr=7.7mm, thermal cycling test,110°C	IEC/EN 60747-5-5	VDE 132249
Alternate	COSMO Electronics Corporation	K1010 / KP1010	Dti=0.6mm Int. dcr=4.0mm, Ext.dcr=5.0mm, thermal cycling test,115°C	IEC/EN 60747-5-5	VDE 101347
Alternate	Lite-On Technology Corporation	LTV-817	Dti=0.8mm EXT. dcr=7.8mm, thermal cycling test,100°C	IEC/EN 60747-5-5	VDE 40015248
Alternate	Fairchild Semiconductor Pte Ltd	H11A817B / FOD817B	Insulation voltage: 850V; Transient overvoltage: 6000V; CT1175; Int. Cr/ Ext. Cr: ≥7,0/ 7,0 mm; 30/110/21	IEC/EN 60747-5-5	VDE 40026857
Alternate	Sharp Corporation Electronic	PC817 Option Y	Insulation voltage: 890V; Transient overvoltage: 9000V Int. Cr/ Ext. Cr: 7,62/ 7,62 mm; 30/100/21	IEC/EN 60747-5-5	VDE 40008087
Alternate	Bright Led Electronics Corp.	BPC-817 (A/B/C/D/L), BPC-817 M, BPC-817 S	Dti=0.4mm EXT. dcr=7.0mm, thermal cycling test,100°C	IEC/EN 60747-5-5	VDE 40007240

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Alternate	Renesas Electronics Corporation	PS2561-1	Dti=0.4mm Ext.dcr=7.0mm,thermal cycling test,100°C	IEC/EN 60747-5-5	VDE 40008862
Alternate	SHENZHEN ORIENT COMPONENTS CO LTD	ORPC-817Mx, ORPC-817Sx, ORPC-817x	Dti=0.4 mm Ext. dcr=7.6 mm, thermal cycling test, 110°C,	IEC/EN 60747-5-5 UL 1577 (No such equivalent IEC available)	VDE 40029733 UL E323844
Transformer (T1)	GlobTek	XF00936	Class B	IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / IEC 60950-1: 2005 + A1:2009 + A2 : 2013	Tested within appliance
Alternate	ENG	XF00936	Class B	IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / IEC 60950-1: 2005 + A1:2009 + A2 : 2013	Tested within appliance
Alternate	Haopuwei	XF00936	Class B	IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / IEC 60950-1: 2005 + A1:2009 + A2 : 2013	Tested within appliance
Alternate	GlobTek	XF00946	Class B	IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / IEC 60950-1: 2005 + A1:2009 + A2 : 2013	Tested within appliance
Triple insulated wire (Secondary)	Great Leoflon Industrial Co., Ltd.	TRW (B) Serie(s)	Class B, reinforced insulation	IEC/EN 62368-1	VDE 136581
		TRW(B)-1		UL 2353 (No such equivalent IEC available)	UL E211989
Alternate	KBI COSMOLINK CO., LTD.	TIW-M	Class B, reinforced insulation	IEC/EN 62368-1 UL 2353 (No such equivalent IEC available)	VDE 138053 UL E213764
Alternate	Furukawa Electric Co., Ltd.	TEX-E	Class B, reinforced insulation	IEC/EN 62368-1 UL 2353 (No such equivalent IEC available)	VDE 006735 UL E206440
Alternate	TOTOKU ELECTRIC CO LTD	TIW-2S	130 °C	IEC/EN 62368-1 UL 2353 (No such equivalent IEC available)	VDE 40005152
		TIW-2X\$+			UL E166483
Alternate	E&B TECHNOLOGY CO LTD	E&B-XXXB* , E&B-XXXB-1*	130 °C	IEC/EN 62368-1	VDE 40023473
		E&B-XXXB, E&B-XXXB-1			UL 2353 (No such equivalent IEC available)
Alternate	SHENZHEN JIUDING NEW MATERIAL CO LTD	DTFW-B	Class B	IEC/EN 62368-1 UL 2353 (No such equivalent IEC available)	VDE 40037495 UL E357999
Bobbin	CHANG CHUN PLASTICS CO LTD	T375J T375HF	V-0, 150°C, thickness 0,45 mm min.	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E59481
Alternate	SUMITOMO BAKELITE CO LTD	PM-9820	V-0, 150°C, thickness 0,45 mm min.	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E41429
Alternate	CHANG CHUN PLASTICS CO LTD	4130	V-0, 140°C, thickness 0,74 mm min.	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E59481

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Alternate	Showa Denko Materials Techno Service Co., Ltd.	CP-J-8800	V-0, 150°C, thickness 0,45 mm min.	UL 94 (Flammability test equivalent to IEC 60695-11-10)	UL E42956
Insulating tape	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1(b)	Min.130°C	UL 510A (No such equivalent IEC available)	UL E17385
Alternate	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350T-1 (b), 44 (a)	Min.130°C	UL 510A (No such equivalent IEC available)	UL E17385
Alternate	BONDTEC PACIFIC CO LTD	370S (b)	Min.130°C	UL 510A (No such equivalent IEC available)	UL E175868
Alternate	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ* (b), CT* (c)(g), CT (b)(g)	Min.130°C	UL 510A (No such equivalent IEC available)	UL E165111
Alternate	JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A(b)	Min.130°C	UL 510A (No such equivalent IEC available)	UL E246950
Alternate	CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX*	Min.130°C	UL 510A (No such equivalent IEC available)	UL E246820
Choke (LF1)	GlobTek/ ENG Electric Co Ltd	NF00124	130 °C	IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / IEC 60950-1: 2005 + A1:2009 + A2 : 2013	Tested within appliance
Choke (LF2)	GlobTek / ENG Electric Co Ltd	NF00125	130 °C	IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / IEC 60950-1: 2005 + A1:2009 + A2 : 2013	Tested within appliance

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

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1.5.2 / 4.3.6	Table: Plug Dimensions					P				
Type of Plug: <input type="checkbox"/> Two pin <input checked="" type="checkbox"/> Three pin										
Reference points	Ratings									
	<input checked="" type="checkbox"/> 2.5A		<input type="checkbox"/> 6A/10A		<input type="checkbox"/> 16A					
	Limits	Measured	Limits	Measured	Limits	Measured				
B	19.10 ± 0.15		19.02		19.1 ± 0.15		--	25.4 ± 0.15		--
C	--		--		7.06 +0.025 -0.050		--	8.71 +0.025 -0.050		--
D	5.08 +0.025 -0.050		5.08		5.08 +0.025 -0.050		--	7.06 +0.025 -0.050		--
E	15.9 +1.04 -0.13		16.54		15.9 +1.04 -0.13		--	20.6 +1.04 -0.13		--
F	--		--		20.6 +1.04 -0.13		--	28.6 +1.04 -0.13		--
G	7.94 (min.)		8.44		7.94 (min.)		--	9.52 (min.)		--
Supplementary information: Above dimensional limits are as per IS 1293:2019 in mm, Earthing Pin is used as Dummy Pin										

1.6.2	TABLE: Electrical data (in normal conditions)						P
U (V)	I (A)	I rated (A)	P (W)	Fuse#	I fusible resistor Current(A)	Condition/status	
90	0.640	--	30.64	FS1	0.640	Maximum Normal load (15V $\overline{---}$ 2.66A)	
100	0.599	1.0	30.54	FS1	0.599		
240	0.350	1.0	30.07	FS1	0.350		
254.4	0.335	--	30.25	FS1	0.335		

2.1.1.5	TABLE: Energy hazard measurement				P
Voltage (rated) (V)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.)(VA)	
15	2.66	11.9	4.2	49.98	
Supplementary information:					

2.1.1.7	TABLE: Discharge test				P
Condition	$\tau$ calculated (s)	$\tau$ measured (s)	t u $\rightarrow$ 0V (s)	Comments	
Line to neutral	--	--	--	V0= 335V, 37% of VQ=123.95V, After 1 sec V0=42V	
Supplementary information: Tested at 254.4V, 50Hz(Including tolerance), V0=Peak working voltage.					

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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)	Capacitor (C3)	--	15.16	Capacitor (C3)
Transformer (T1)	Capacitor (C4)	--	15.15	Capacitor (C4)
Supplementary information:				

2.2.3	TABLE: SELV measurement (under fault conditions)		P
Location	Voltage (max.) (V)	Comments	
Capacitor (C3)	0	--	
Capacitor (C4)	0	--	
Supplementary information:			

2.4.2	TABLE: Limited current circuit measurement					P
Location	Voltage (V)	Current (mA)	Freq. (kHz)	Limit (mA)	Comments	
Y- Capacitor (CY1)	0.069	0.146	0.05	0.7	--	
Supplementary information:						

2.5	TABLE: Limited power source measurement			P
	Limits	Measured	Verdict	
According to Table 2B normal condition : (normal condition (15V $\overline{---}$ 2.66A) output)				
current (in A)	$\leq 8$	4.2	P	
apparent power (in VA)	$\leq 100$	49.98	P	
According to Table 2B (single fault condition : output S-C)				
current (in A)	$\leq 8$	0	P	
apparent power (in VA)	$\leq 100$	0	P	
Supplementary information:				

2.6.3.4	TABLE: Resistance of earthing measurement		N/A
Location	Resistance measured (m $\Omega$ )	Comments	
--	--	--	
Supplementary information: Class II equipment; No such earthing used.			

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<OR>

2.6.3.4	TABLE: Resistance of earthing measurement	N/A
Location	Voltage drop (V)	Comments
--	--	--
Supplementary information: Class II equipment; No such earthing used.		

2.10.2	Table: Working voltage measurement	P	
Location	RMS voltage (V)	Peak voltage (V)	Comments
T1 Pin 1-Pin 7	211	325	--
T1 Pin 1-Pin 6	232	333	--
T1 Pin 2-Pin 7	221	311	--
T1 Pin 2-Pin 6	215	329	--
T1 Pin 4-Pin 7	195	328	--
T1 Pin 4-Pin 6	228	328	--
T1 Pin 3-Pin 7	219	321	--
T1 Pin 3-Pin 6	234	333	--
<b>Line to Neutral</b>	<b>235</b>	<b>335</b>	<b>max</b>
Supplementary information:			

2.10.3 and 2.10.4	TABLE: Clearance and creepage distance measurements					P
Clearance (cl) and creepage distance (cr) at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)
Functional:						
Trace under primary fusible resistor (FS1)	335	235	1.5	4.5	2.5	4.5
Basic / supplementary:						
--	--	--	--	--	--	--
Reinforced:						
Transformer (primary pin - secondary pin)	335	235	4.0	26.02	5.0	26.02
Y-Capacitor(CY1)	335	235	4.0	9.44	5.0	9.44
Supplementary information:						

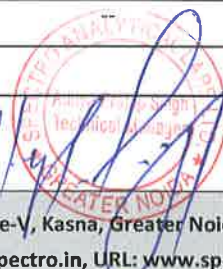




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2.10.5	TABLE: Distance through insulation measurements					P
Distance through insulation (DTI) at/of:		U peak (V)	U r.m.s. (V)	Test voltage (V)	Required DTI (mm)	DTI (mm)
Basic:						
--		--	--	--	--	--
Supplementary:						
--		--	--	--	--	--
Reinforced:						
Enclosure		335	235	3000	0.4	2.48
Insulation Tape		335	235	3000	Two Layers	Six Layers
Supplementary information:						

4.3.8	TABLE: Batteries					N/A			
The tests of 4.3.8 are applicable only when appropriate battery data is not available				No such battery used		N/A			
Is it possible to install the battery in a reverse polarity position?						N/A			
	Non-rechargeable batteries			Rechargeable batteries					
	Discharging		Un-intentional charging	Charging		Discharging		Reversed charging	
	Meas. current	Manuf. Specs.		Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during normal condition	--	--	--	--	--	--	--	--	--
Max. current during fault condition	--	--	--	--	--	--	--	--	--
Test results:						Verdict			
- Chemical leaks						--	N/A		
- Explosion of the battery						--	N/A		
- Emission of flame or expulsion of molten metal						--	N/A		
- Electric strength tests of equipment after completion of tests						--	N/A		
Supplementary information: No such 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 40 °C(T <sub>ma</sub> ), as specified by the manufacturer.						
test voltage(s) (V):		A: V= 90, 50Hz		B: V= 254.4, 50Hz		
t <sub>amb1</sub> (°C):		A: 27.4 B:27.8		t <sub>amb2</sub> (°C):		
				A: 27.4 B:27.8		
Temperature of part/at: (measured with thermocouples)		Measured temperature rise at T <sub>amb</sub>		Calculated temperature at T <sub>ma</sub>		Allowed T <sub>max</sub> (°C)
		A dT (K)	B dT (K)	A T (°C)	B T (°C)	
Transformer T1 coil		25.7	26.8	65.7	66.8	110
PCB		22.0	19.7	62.0	59.7	130
Enclosure (outside)		11.7	9.6	51.7	49.6	95
Enclosure (inside)		21.3	17.9	61.3	57.9	95
Choke (LF1)		27.1	18.7	67.1	58.7	130
Supplementary information: Thermocouple Method Used						
Temperatures measured with winding resistance method: Not used						
temperature T of winding: (winding resistance method)	(V)	R1 (Ω)	R2(Ω)	T(°C)	allowed T <sub>max</sub> (°C)	insulation class
Supplementary information:						

4.5.5	TABLE: Ball pressure test of thermoplastic parts				P
Allowed impression diameter (mm) .....		≤2 mm			
Part			Test temperature (°C)	Impression diameter (mm)	
Enclosure			125	0.69	
Supplementary information:					

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



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4.7	Table: Resistance to fire				P
Part	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence
PCB	*	*	1.24	*	*
Enclosure	*	*	2.48	*	*
Supplementary information: * See table 1.5.1					

5.1.6	TABLE: Touch current and protective conductor current measurement				P	
	Test voltage (V) .....			AC 254.4V	---	
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 Enclosure with metal foil	0.0095	--	0.0163	--	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 and neutral (FS1 open)	AC	1500	No	
Basic / supplementary:				
---	--	--	--	
Reinforced:				
Primary to core and secondary T1	AC	3000	No	
L/N and enclosure cover with metal foil	AC	3000	No	
Insulation tape	AC	3000	No	
Supplementary information:				



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5.3	TABLE: Fault condition tests					P
	Ambient temperature (°C) .....				27.1°C	—
	Power source for EUT: Manufacturer, model/type, output rating .....				See table 1.5.1	—
Component No.	Fault	Supply voltage (V)	Test time	Fusible Resistor #	Fuse current (A)	Observation
Capacitor (C3)	Short Circuit	254.4 Vac	1sec	FS1	--	EUT shutdown Immediately No fire no hazard
Output	Overload	254.4 Vac	2 hrs	FS1	--	Temperature on transformer coil : 84.5°C No damage, No hazards
Transformer (primary pin 1-Secondary pin 6)	Short Circuit	254.4 Vac	1sec	FS1	--	EUT shutdown immediately No fire no hazard
Supplementary information:						



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C.2	TABLE: Insulation of transformers						P
	Transformer part name .....	Isolating Transformer T1					
	Manufacturer .....	See table 1.5.1					
	Type.....	See table 1.5.1					
Clearance (cl) and creepage distance (cr) at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)	
Primary /input winding and secondary/output winding (internal)	335	235	4.0	TIW	5.0	TIW	
Primary/input winding and core (internal)			4.0	TIW	5.0	TIW	
Secondary/output winding and core (internal)			4.0	TIW	5.0	TIW	
Primary/input part and secondary/output part (external)			4.0	26.02	5.0	26.02	
Primary/input part and core (external)			4.0	TIW	5.0	TIW	
Primary/input part and secondary/output winding (external)			4.0	TIW	5.0	TIW	
Secondary/output part and core (external)			4.0	TIW	5.0	TIW	
Secondary/output part and primary/input winding (external)			4.0	TIW	5.0	TIW	
					4.0	TIW	5.0
<b>Description of design:</b>							
<b>(a) Bobbin</b>							
Primary/input pins .....			1-5-2-4-3				
Secondary/output pins .....			7-6				
Material (manufacturer, type, ratings) .....			See Table 1.5.1				
Thickness (mm) .....			0.69 mm				
<b>(b) General</b>							
Supplementary information: TIW : Triple insulated wire							



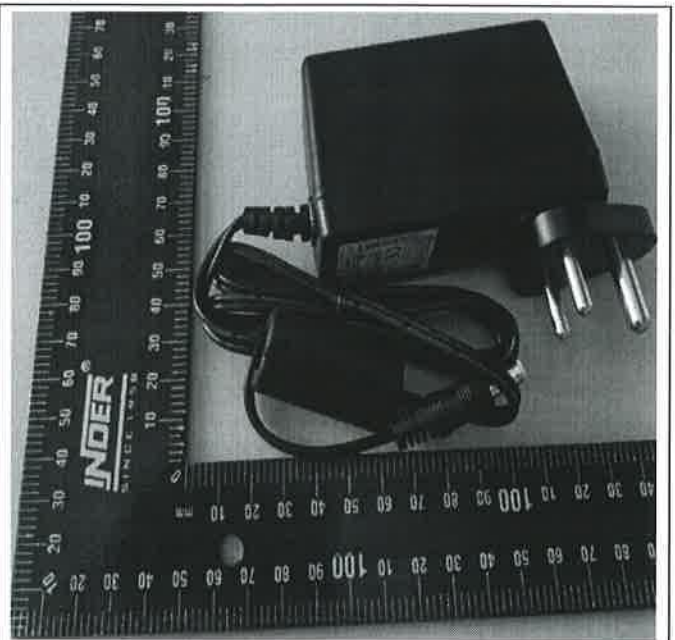
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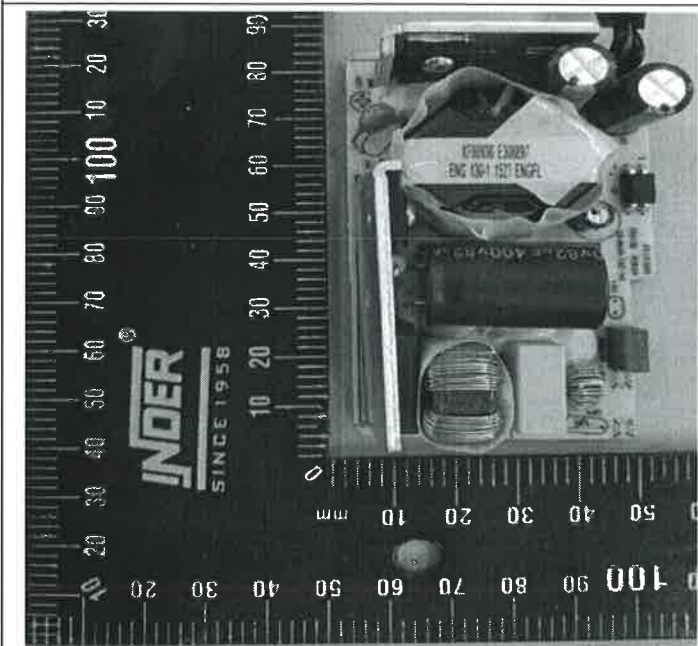
**PHOTOGRAPHS**



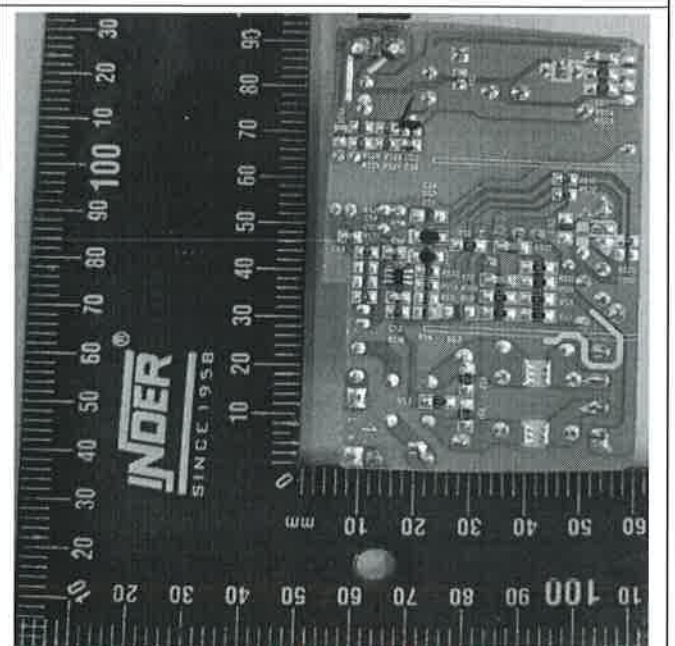
**External View 1**



**External View 2**



**PCB Front View**



**PCB Back View**

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