

**ACCURATE TEST SOLUTIONS NOIDA**ULR No. :  
TC543322000001688P

.....  
DOC No. : 22EB5A4N F 21 SECTOR 11 NOIDA 201301, NOIDA, Gautam  
Telephone : +91 9810820552 Buddha Nagar, Uttar Pradesh, India - 201301  
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BO Code : NA

**Test REPORT AS PER : IS 13252 : Part 1 (2010)****QR Code/Barcode : 117505CRS****REPORT NO : SC22EPF13310\_1**

DATE : 23 Aug, 2022

PART A. PARTICULARS OF SAMPLE SUBMITTED

a) Customer Name & Address : Zhejiang Dahua Zhilian Co.,Ltd.  
NO.28,DONGQIAO ROAD,DONGZHOU STREET,  
FUYANG DISTRICT, HANGZHOU,P.R.CHINA., NA,  
HANGZHOU, China - 310000

b) Nature of sample : -

c) Grade/Variety/Type/Class Size etc : NA

d) Declare values, if any : -

e) Batch No. & Date of Manufacture : /

f) Quantity : 1

g) Date of Receipt : 09 Aug, 2022

h) BIS Seal : Verified by Sample Cell

i) IO's Signature : Verified by Sample Cell

j) Any other Information / Expiry Date, If any : /

k) Date of Commencement of Testing : 09 Aug, 2022

l) Date of Completion of Testing : 23 Aug, 2022

m) Section Code : 22EB5A4N

n) Section Report No. : 22EB5A4N\_1

o) Report Type : New

p) Reference Report No. :

q) Remarks :

**Ankit Pandey**  
**OIC SAMPLE CELL**  
(Authorized Signatory)  
Authorized on: 23 Aug, 2022 20:04 PM

1.

This is a Computer Generated Report.

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PART B. SUPPLEMENTARY INFORMATION

- |  |                |
|--|----------------|
| 1. Reference to sampling procedure, wherever applicable.   | Not Applicable |
| 2. Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test report, if any. | Yes            |
| 3. Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any.   | Not Applicable |

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**Subhash .**  
**OIC Electrical**  
(Authorized Signatory)  
Authorized on: 23 Aug, 2022 19:59 PM

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## PART C. TEST RESULT

S.No.	Clause No Table No. Sl. No	Parameter - Method of test	Test Description	Min Limit	Max Limit	Unit	Result/ Observation
1	7.4	Insulation between primary circuits and cable distribution systems	Insulation between primary circuits and cable distribution systems	-	-	-	Test Not Applicable
2	7.3	Protection of equipment users from overvoltages on the cable distribution system	Protection of equipment users from overvoltages on the cable distribution system	-	-	-	Test Not Applicable
3	7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment	-	-	-	Test Not Applicable
4	7.1	General	Connection to cable distribution systems	-	-	-	Test Not Applicable
5	6.3	Protection of the telecommunication wiring system from overheating	Protection of the telecommunication wiring system from overheating	-	-	-	Test Not Applicable
6	6.2	Protection of equipment users from overvoltages on networks telecommunication	Protection of equipment users from overvoltages on networks telecommunication	-	-	-	Test Not Applicable
7	6.1	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment	-	-	-	Test Not Applicable
8	5.3	Abnormal operating and fault conditions	Abnormal operating and fault conditions test	-	-	-	No fire, No hazard. For more description see final attachment.
9	5.2	Electric strength	To Check Insulation as per Clause 5.2,5.2.1,5.2.2	-	-	-	Test Not Applicable
10	5.1	Touch current and protective conductor current	Cl. 5.1	-	-	-	Test Not Applicable
11	4.7	Resistance to fire	Clause 4.7, 4.7.1, 4.7.2, 4.7.2.1, 4.7.2.2, 4.7.3, 4.7.3.1	-	-	-	Certified material used. For more description see final attachment.
12	4.6	Openings in enclosures	Openings in enclosures	-	-	-	Test Not Applicable
13	4.5	Thermal requirements	Temperature rise measurement Test	-	-	°C	11.0 (For described result see final attachment)
14	4.4	Protection against hazardous moving parts	Protection against hazardous moving parts	-	-	-	Complies with requirement. For more description see final attachment.

15	4.3	Design and construction	Design and construction	-	-	-	All edges and corner accessible to user are round and smooth. For more description see final attachment.
16	4.2	Mechanical strength	Mechanical Strength Test	-	-	-	Complies. For more description see final attachment.
17	4.1	Stability	Clause 4.1 Stability	-	-	-	Test Not Applicable
18	3.5	Interconnection of equipment	Clause 3.5, 3.5.1, 3.5.2, 3.5.4	-	-	-	SELV to SELV connection only. For more description see final attachment.
19	3.4	Disconnection from the mains supply	Appliance inlet is considered as disconnect device	-	-	-	Test Not Applicable
20	3.3	Wiring terminals for connection of external conductors	Wiring terminals for connection of external conductors	-	-	-	Test Not Applicable
21	3.2	Connection to a mains supply	Clause 3.2: Connection to a mains supply	-	-	-	Test Not Applicable
22	3.1	General	Clause 3.0, 3.1.1, 3.1.2, 3.1.3	-	-	-	Suitable internal wire used, For more description see final attachment,
23	2.10	Clearances, creepage distances and distances through insulation	Clause 2.10, 2.10.1.2, 2.10.1.3, 2.10.3, 2.10.3.4	-	-	-	Functional insulation complies with requirement. For more description see final attachment.
24	2.9	Electrical insulation	Clause 2.9 Electrical insulation	-	-	-	Functional insulation used. For more description see final attachment.
25	2.8	Safety interlocks	Clause 2.8 Safety Interlocks-	-	-	-	Test Not Applicable
26	2.7	Overcurrent and earth fault protection in primary circuits	Certified Fuse is provided for protection against short – circuits and overcurrent. The building installation consider as short-circuit backup protection.	-	-	-	Test Not Applicable
27	2.6	Provisions for earthing and bonding	Clause 2.6 Provisions for earthing and bonding	-	-	-	Test Not Applicable
28	2.5	Limited power sources .	Limited power sources test perform on Secondary Li-ion battery pack	-	-	-	Complies For more description see final attachment.
29	2.4	Limited current circuits	Limited current circuits	-	-	-	Test Not Applicable
30	2.3	TNV circuits	TNV circuits	-	-	-	Test Not Applicable
31	2.2	SELV circuits	Clause 2.2: SELV circuits	-	-	-	SELV to SELV connection only. For more description see final attachment.
32	2.1	Protection from electric shock and energy hazards	Clause 2.1: Protection from electric shock and energy hazards	-	-	-	Complies For more description see final attachment. For more description see final attachment.

33	1.7	Markings and instructions	Clause: 1.7.11 (Durability) Rubbing the marking by hand for 15s with a piece of cloth soaked with water and again for 15 s with a piece of cloth soaked with petroleum spirit.	-	-	-	Marking were legible and durable after the test. For more description see final attachment.
34	1.6	Power interface .	Input current Measurement	-	-	A	1.15 (For more description see final attachment.)

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**Subhash .**  
**OIC Electrical**  
 (Authorized Signatory)  
 Authorized on: 23 Aug, 2022 19:59 PM

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PART D. REMARKS

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**Subhash .  
OIC Electrical**  
(Authorized Signatory)  
Authorized on: 23 Aug, 2022 19:59 PM

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**SUMMARY OF TEST REPORT**

TEST REPORT NO: SC22EPF13310\_1

DATE: 23/08/2022

ULR-TC543322000001688P

DISCIPLINE: ELECTRONICS

GROUP: SAFETY TESTING

(Number of Pages in Test Report: Page No. 1 to 103)

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

1. **Name of the Manufacturer:** Zhejiang Dahua Zhilian Co.,Ltd.
2. **Product:** MOBILE VIDEO RECORDER(CCTV Recorder)
3. **Lead Model:** DHI-MNVR4104-GFWI  
**Series Models:** DHI-MNVR4104-GFI, DHI-MNVR4104-GI, DHI-MNVR4104-I



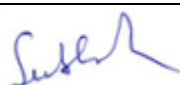
4. **Trade Mark:**
5. **Model differences provided (if applicable):**Yes
6. **Model differences verified as per MEITY Guidelines for series formulation:** Yes
7. **Test Results:** Refer below

**PARTA: GENERAL**

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

**PART B: PROTECTION FROM HAZARDS**

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




TEST REPORT NO: SC22EPF13310\_1

DATE: 23/08/2022

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

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

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

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

**PART E: CONNECTION TO TELECOMMUNICATION NETWORK AND CABLE DISTRIBUTION SYSTEM**

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






**TEST REPORT NO: SC22EPF13310\_1**

**DATE: 23/08/2022**

**GENERAL INFORMATION:**

1. The conformity certificates of critical components are verified to ensure complete testing of apparatus under test and details regarding harmonized IEC standards (where IEC standards are not available) are also provided in the list of critical components.
2. All tests have performed at Model: **DHI-MNVR4104-GFWI** only.

**CONCLUSION:**

1. Sample meets all relevant requirements of IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / IEC 60950-1: 2005 + A1: 2009 + A2 : 2013
2. ~~Sample fails to meet the following test requirements.~~

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

**Date: 23/08/2022**



**(Signature of Authorized person with Stamp)**



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Issue Date: 23/08/2022

Manufacturer:	<b>Zhejiang Dahua Zhilian Co.,Ltd.</b> NO.28,DONGQIAO ROAD,DONGZHOU STREET, FUYANG DISTRICT, HANGZHOU,P.R.CHINA, 310000	
Test item:	<b>MOBILE VIDEO RECORDER(CCTV Recorder)</b>	
Identification:	<b>Lead Model:</b> DHI-MNVR4104-GFWI <b>Series Models:</b> DHI-MNVR4104-GFI, DHI-MNVR4104-GI, DHI-MNVR4104-I	Serial No.: Nil
Receipt/job No.:	<b>22EB5A4N</b>	Date of receipt: 09/08/2022
Testing laboratory and its address:	<b>Accurate Test Solutions</b> F-21, Sector- 11, Noida-201301, U.P., (INDIA)	
Test specification:	<b>IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / IEC 60950-1: 2005 + A1: 2009 + A2 : 2013</b>	
Test Result:	The test item passed / failed the test specification.	
Other Aspects:	This test report consists of 103 pages.	
This test report relates to the test sample submitted and list of documents attached.		

Tested by:	Approved by / Authorized Signatory:	Issued by:
		
Testing Engineer: Yogesh Rana	Technical Manager: Subhash	Head of Laboratory: Yad Ram
Date: 23/08/2022	Date: 23/08/2022	Date: 23/08/2022



Report No. : SC22EPF13310\_1

IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 /

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Dated: 23/08/2022

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

## TEST REPORT

### IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC 60950-1: 2005 + A1: 2009 + A2: 2013 Information technology equipment – Safety – Part 1: General requirements “CCTV Recorder”

**Report Reference No.** .....: **SC22EPF13310\_1**

**Date of issue** .....: 23/08/2022

**Total number of pages** .....: 103

**Testing Laboratory** .....: **Accurate Test Solutions**

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

**Manufacturer's name**.....: **Zhejiang Dahua Zhilian Co.,Ltd.**

**Address**.....: NO.28,DONGQIAO ROAD,DONGZHOU STREET, FUYANG DISTRICT, HANGZHOU,P.R.CHINA, 310000

**Test specification:**

**Standard** .....: **IS 13252 (Part 1): 2010 + A1: 2013+ A2:2015 /  
IEC 60950-1: 2005 + A1: 2009 +A2:2013**

**Test procedure**.....: Compliance Report


**Non-standard test method**.....: N/A

**Test Report Form No.** .....: BIS\_ CCTVC/CCTVR\_IS13252\_V1.0


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

**Master TRF** .....: 23/11/2017

**Test item description**.....: **MOBILE VIDEO RECORDER(CCTV Recorder)**

**Trade Mark** .....: 

**Model/Type reference** .....: **Lead Model:** DHI-MNVR4104-GFWI  
**Series Models:** DHI-MNVR4104-GFI, DHI-MNVR4104-GI,  
DHI-MNVR4104-I

**Ratings**.....: Input: 6V-36V , 6A

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

Tested by:	Approved by / Authorized Signatory:	Issued by:
		
<b>Testing Engineer: Yogesh Rana</b>	<b>Technical Manager: Subhash</b>	<b>Head of Laboratory: Yad Ram</b>
<b>Date: 23/08/2022</b>	<b>Date: 23/08/2022</b>	<b>Date: 23/08/2022</b>

TRF No. BIS\_ CCTVC/CCTVR\_IS13252\_V1.0




Report No. : SC22EPF13310\_1

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Dated: 23/08/2022

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

Test Code	Description	Measurement/ testing	Total No. of tests	Total no. of applicable tests/ Req.	No. of tests/ Req. passed	Page No.
EL 2100	General Requirements	Components (Cl.1.5)	18	04	04	11-12
EL 2101	General Requirements	Power interface (Cl.1.6)	05	02	02	13
EL 2102	Marking Requirements	Marking & instructions(Cl.1.7)	39	15	15	14-16
EL 2103	Electrical safety	Protection from electric shock and energy hazards (Cl.2.1)	14	04	04	17-18
EL 2104	Electrical safety	SELV Circuits (Cl.2.2)	04	04	04	19
EL 2105	Electrical safety	TNV Circuits (Cl.2.3)	12	00	N/A	20
EL 2106	Electrical safety	Limited current circuits (Cl.2.4)	04	00	N/A	21
EL 2107	Electrical safety	Limited Power sources (Cl.2.5)	07	03	03	22
EL 2108	Electrical safety	Provisions for earthing and bonding (Cl.2.6)	19	00	N/A	23-24
EL 2109	Electrical safety	Overcurrent and earth fault protection in primary circuits (Cl.2.7)	07	00	N/A	25
EL 2110	Electrical safety	Safety Interlocks (Cl.2.8)	13	00	N/A	26
EL 2111	Electrical safety	Electrical Insulation (Cl.2.9)	05	03	03	27
EL 2112	Electrical safety	Clearances, Creepage distances and distances through insulation (Cl.2.10)	63	04	04	28-31
EL 2113	Wiring	Wiring, connections and supply (Cl.3)	11	04	04	32
EL 2114	Wiring	Connection to a main supply (Cl.3.2)	14	00	N/A	33-34
EL 2115	Wiring	Wiring terminals for connection of external conductors (Cl.3.3)	09	00	N/A	35
EL 2116	Wiring	Disconnection for the main supply (Cl.3.4)	12	00	N/A	36
EL 2117	Wiring	Interconnection of equipment (Cl.3.5)	05	03	03	37
EL 2118	Mechanical properties	Stability (Cl.4.1)	04	00	N/A	38

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Dated: 23/08/2022

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

EL 2119	Mechanical properties	Mechanical strength (Cl.4.2)	13	06	06	39
EL 2120	Mechanical properties	Design and construction (Cl.4.3)	25	03	03	40-41
EL 2121	Mechanical properties	Protection against hazardous moving parts (Cl.4.4)	14	04	04	42
EL 2122	Thermal Properties	Thermal requirements (Cl.4.5)	06	05	05	43
EL 2123	Mechanical properties	Openings in Enclosures (Cl.4.6)	18	00	N/A	44-45
EL 2124	Fire Safety	Resistance to fire (Cl.4.7)	25	11	11	46-49
EL 2125	Insulating properties	Electrical requirements and simulated abnormal conditions(Cl.5),5.1	20	01	01	50-51
EL 2126	Insulating properties	Electric Strength (Cl.5.2)	03	00	N/A	52
EL 2127	Insulating properties	Abnormal operating and fault conditions (Cl.5.3)	11	06	06	53
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	54-55
EL 2129	Communicating connection	Protection of equipment users from over voltages on telecommunication networks (Cl.6.2)	06	00	N/A	56
EL 2130	Communicating connection	Protection of the telecommunication wiring system from overheating (Cl.6.3)	05	00	N/A	57-58
EL 2131	Connection to cable distribution systems	Connection to cable distribution systems (Cl.7)	08	00	N/A	59
EL 2132	Fire safety	Tests for resistance to heat and fire (Annex A)	20	03	03	60-61
EL 2133	Insulating properties	Motor tests under abnormal conditions (Annex B)	19	02	02	62-63
EL 2134	Electrical Safety	Transformers (Annex C)	03	00	N/A	64
EL 2135	Insulating properties	Measuring Instruments For Touch-Current Tests (Annex D)	03	00	N/A	65

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Report No. : SC22EPF13310\_1

IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 /

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Dated: 23/08/2022

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

EL 2136	Thermal Properties	Temperature Rise Of A Winding (Annex E)	01	00	N/A	66
EL 2137	Electrical safety	Measurement Of Clearances And Creepage Distances (Annex F)	01	00	N/A	67
EL 2138	Electrical safety	Alternative Method For Determining Minimum Clearances(Annex G)	17	00	N/A	68-69
EL 2139	Radiation Safety	Ionizing Radiation (Annex H)	01	00	N/A	70
EL 2140	Electrical Safety	Table of electrochemical potentials (Annex J)	01	00	N/A	71
EL 2141	General Requirements	Thermal controls (Annex K)	07	00	N/A	72
EL 2142	General Requirements	Normal load conditions for some types of electrical business equipment (Annex L)	08	02	02	73
EL 2143	Electrical Safety	Criteria for telephone ringing signals (Annex M)	13	00	N/A	74
EL 2144	Electrical safety	Impulse Test Generators(Annex N)	03	00	N/A	75
EL 2145	General Requirements	Normative References (Annex P)	01	00	N/A	76
EL 2146	General Requirements	Voltage dependent resistors (VDRs) (Annex Q)	03	00	N/A	77-78
EL 2147	General Requirements	Examples Of Requirements For Quality Control Programmes(Annex R)	03	00	N/A	79
EL 2148	General Requirements	Procedure For Impulse Testing (Annex S)	04	00	N/A	80
EL 2149	Protection against Ingress of water	Guidance On Protection Against Ingress Of Water (Annex T)	01	N/A	N/A	81
EL 2150	Wiring	Insulated Winding Wires For Use Without Interleaved Insulation (Annex U)	17	00	N/A	82-83
EL 2151	Electrical Safety	Ac Power Distribution Systems(Annex V)	05	00	N/A	84
EL 2152	Electrical Safety	Summation Of Touch Currents (Annex W)	08	00	N/A	85
EL 2153	Electrical Safety	Maximum Heating Effect In Transformer Tests(Annex X)	03	00	N/A	86
EL 2154	Radiation safety	Ultraviolet light conditioning test (Annex Y)	05	00	N/A	87
EL 2155	Electrical Safety	Overvoltage Categories (Annex Z)	01	00	N/A	88
EL 2156	Mechanical	Mandrel Test (Annex AA)	01	00	N/A	89

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	properties					
EL 2157	Electrical Safety	Changes In The Second Edition (Annex BB)	--	--	--	--
EL 2158	Electrical Safety	Evaluation of Integrated Circuit (IC) Current Limiters (Annex CC)	06	00	N/A	90
EL 2159	Mechanical properties	Requirements For The Mounting Means Of Rack-Mounted Equipment (Annex DD)	04	00	N/A	91
EL 2160	Electrical Safety	Household And Home/Office Document/Media Shredders (Annex EE)	06	00	N/A	92

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

.....  
(Approving Authority)




Report No. : SC22EPF13310\_1

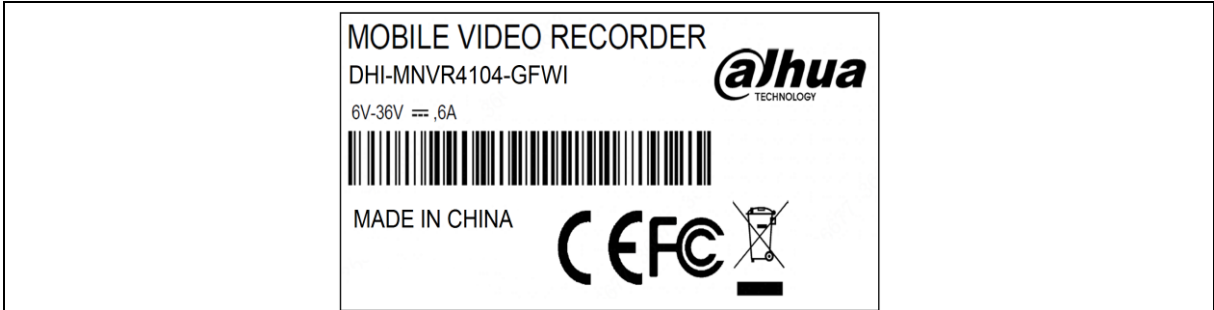
IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 /

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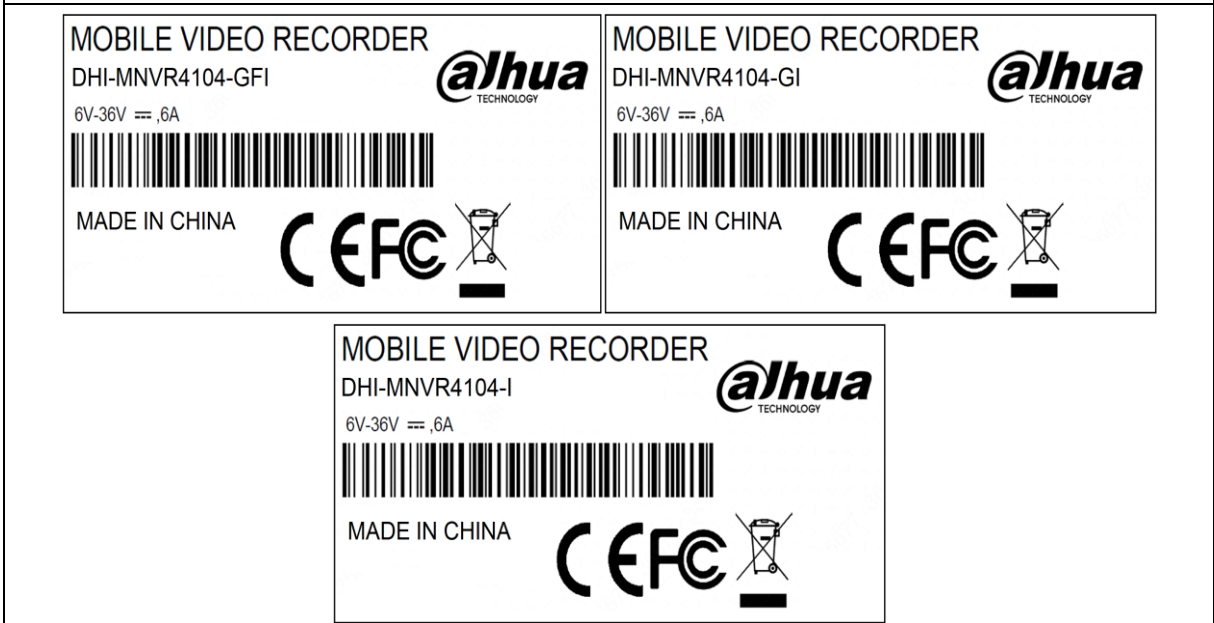
Dated: 23/08/2022

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

**Copy of marking plate:**



**Marking Plate of Lead Model**



**Marking Plate of Series Models**






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<b>Table – List of Attachments</b>		
Attachment No.	Attachment Description	No. of pages in Attachment
Attachment no.: 1	Photo Document	102-103
<p><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.</p>		
<p><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 (Fail)</p>		
<p><b>Testing</b> .....</p> <p>Date of receipt of test item ..... : 09/08/2022 Date(s) of performance of tests ..... : From 09/08/2022 to 23/08/2022</p>		
<p><b>Laboratory conditions</b> .....</p> <p>Ambient Temperature..... : 25±10°C Ambient Humidity ..... : 45 to 75% Rh</p>		




Report No. : SC22EPF13310\_1

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<b>Test item particulars</b> .....	<b>MOBILE VIDEO RECORDER(CCTV Recorder)</b>
Equipment mobility .....	<input checked="" type="checkbox"/> movable <input type="checkbox"/> hand-held <input type="checkbox"/> transportable <input type="checkbox"/> stationary <input type="checkbox"/> for building-in <input type="checkbox"/> direct plug-in
Connection to the mains.....	<input type="checkbox"/> pluggable equipment <input type="checkbox"/> 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 checked="" type="checkbox"/> not directly connected to the mains
Operating condition .....	<input checked="" type="checkbox"/> continuous <input type="checkbox"/> rated operating / resting time:
Access location .....	<input checked="" type="checkbox"/> operator accessible <input type="checkbox"/> restricted access location
Over voltage category (OVC) .....	<input type="checkbox"/> OVC I <input type="checkbox"/> OVC II <input type="checkbox"/> OVC III <input type="checkbox"/> OVC IV <input checked="" type="checkbox"/> other: SELV
Mains supply tolerance (%) or absolute mains supply values .....	N/A
Class of equipment .....	<input type="checkbox"/> Class I <input type="checkbox"/> Class II <input checked="" type="checkbox"/> Class III <input type="checkbox"/> Not classified
Considered current rating of protective device as a part of the building installation (A) .....	N/A
Pollution degree (PD) .....	<input type="checkbox"/> PD 1 <input checked="" type="checkbox"/> PD 2 <input type="checkbox"/> PD 3
IP protection class .....	IPX0
Altitude during operation (m) .....	Up to 2000
Altitude of test laboratory (m) .....	< 1000
Mass of equipment (kg) .....	1.94kg

**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:**

Equipment under test is Class III **MOBILE VIDEO RECORDER(CCTV Recorder)**

Model: **DHI-MNVR4104-GFWI**

Having rated Input: 6V-36V , 6A

**Similarities:** All models have same PCB layout, some enclosure material except for differences of decoration parts.

Max. specified ambient temperature (°C).....:	55°C
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<b>Differences between the models:</b> .....	Model name only
--	-----------------

Model No. tested with-in the family series .....	<b>DHI-MNVR4104-GFWI</b>
--	--------------------------

**3) Options:**

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




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Tests relating to General Requirements

## EL 2100 – V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
1.5	Components*	EL 2100-00	Verification of approvals with due correlation between the components used and the approval certificates submitted (Please see the table 1.5.1)	P
1.5.1	General:	EL 2100-01	See below	P
	Components shall be complying with IEC 60950-1 or relevant component standard.		Component certified with relevant component standard.	P
	Components and subassemblies approved for IEC 62368-1 can be considered as complying with this standard		See above	N/A
1.5.2	Evaluation and testing of components	EL 2100-02	Component certified to IEC standard and/or their harmonized standards are used within their ratings (See Table 1.5.1)	P
1.5.3	Thermal controls	EL 2100-03	No Thermal Controls	N/A
1.5.4	Transformers	EL 2100-04	No transformer used	N/A
1.5.5	Interconnecting cables*	EL 2100-05	Suitable internal wire used	P
1.5.6	Capacitors bridging insulation *	EL 2100-06	No such construction	N/A
1.5.7	Resistors bridging insulation	EL 2100-07	No such construction	N/A
1.5.7.1	Resistors bridging functional, basic or supplementary insulation*	EL 2100-08	See above Cl. No. 1.5.7	N/A
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	EL 2100-09	See above Cl. No. 1.5.7	N/A
1.5.7.3	Resistors bridging double insulation or reinforced insulation between the a.c. mains supply and circuits connected to an antenna or coaxial cable	EL 2100-10	See above Cl. No. 1.5.7	N/A
1.5.8	Components in equipment for IT power distribution systems*	EL 2100-11	Not for IT power Distribution system	N/A
1.5.9	Surge suppressors	EL 2100-12	No such construction	N/A
1.5.9.1	General*	EL 2100-13	See above Cl. No. 1.5.9	N/A
1.5.9.2	Protection of VDRs*	EL 2100-14	See above Cl. No. 1.5.9	N/A

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Tests relating to General Requirements

## EL 2100 – V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
1.5.9.3	Bridging of functional insulation by a VDR*	EL 2100-15	See above Cl. No. 1.5.9	N/A
1.5.9.4	Bridging of basic insulation by a VDR*	EL 2100-16	See above Cl. No. 1.5.9	N/A
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR*	EL 2100-17	See above Cl. No. 1.5.9	N/A

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

Total number of tests to be conducted = 08  
 Total No of applicable Tests = 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/ ~~fail~~ing in the requirement tested.

.....  
 (Approving Authority)

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Tests relating to Electrical Safety

## EL 2101 – V1.0

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	Equipment not directly connected to AC mains	N/A
1.6.2	Input current	EL 2101-02	See table 1.6.2	P
1.6.3	Voltage limit of hand-held equipment*	EL 2101-03	Not a hand-held equipment	N/A
1.6.4	Neutral conductor *	EL 2101-04	Class III Equipment	N/A

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

Total No of applicable Requirement =01

No of Requirements for which the sample passed =01

Total number of tests to be conducted =01

Total No of applicable Tests =01

No. of tests for which the sample passed =01

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

.....  
(Approving Authority)

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Tests relating to Marking Requirements

## EL 2102 – V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
1.7	Marking and instructions*	EL 2102-00		P
1.7.1	Power rating and identification markings		See below	P
1.7.1.1	Power rating marking*	EL 2102-01	See below	P
	Rated voltage(s) or voltage ranges(s) (V)*.	EL 2102-02	See Copy of Marking Plate	P
	Multiple mains supply connections*.	EL 2102-03	No multiple mains supply connection	N/A
	Symbol for nature of supply, for d.c. only*:	EL 2102-04	D.C. "====" symbol used on marking plate	P
	Rated frequency or rated frequency range (Hz) *:	EL 2102-05	DC supply used	N/A
	Rated current (mA or A)*:	EL 2102-06	See Copy of Marking Plate	P
1.7.1.2	Identification markings*	EL 2102-07	See below	P
	Manufacturer's name or trademark or identification mark *:	EL 2102-08		P
	Model identification or type reference *:	EL 2102-09	<b>DHI-MNVR4104-GFWI</b>	P
	Symbol for Class II equipment only* :	EL 2102-10	Class III equipment	N/A
	Other markings and symbols*:	EL 2102-11	Other marking and symbol do not give rise to misunderstanding	P
1.7.1.3	Use of graphical symbols*	EL 2102-12	Graphical symbol used	P
1.7.2	Safety instructions and marking*	EL 2102-13	Instruction manual provided	P
1.7.2.1	General	EL 2102-14	Instruction manual provided with sufficient information	P
1.7.2.2	Disconnect devices*	EL 2102-15	Not directly connected to mains	N/A
1.7.2.3	Overcurrent protective devices*	EL 2102-16	No such protective devices used	N/A
1.7.2.4	IT power distribution systems*	EL 2102-17	Not for IT power distribution system	N/A
1.7.2.5	Operator access with a tool*	EL 2102-18	No tools required	N/A
1.7.2.6	Ozone*	EL 2102-19	No ozone generated	N/A
1.7.3	Short duty cycles*	EL 2102-20	Continuous operation	N/A
1.7.4	Supply voltage adjustment*	EL 2102-21	No such voltage adjustment	N/A
1.7.5	Power outlets on the equipment*	EL 2102-22	No such power outlets	N/A
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference)  Fuse(s) shall clearly and adequately marked with fuse number and rating*.	EL 2102-23	No such construction	N/A

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Tests relating to Marking Requirements

## EL 2102 – V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
1.7.7	Wiring terminals	EL 2102-24	See below Cl. No. 1.7.7.1 to 1.7.7.3	N/A
1.7.7.1	Protective earthing and bonding terminals*	EL 2102-25	Class III equipment	N/A
1.7.7.2	Terminals for a.c. mains supply conductors*	EL 2102-26	Not directly connected to mains.	N/A
1.7.7.3	Terminals for d.c. mains supply conductors*	EL 2102-27	No DC main supply	N/A
1.7.8	Controls and indicators	EL 2102-28	See below Cl. No. 1.7.8.1 to 1.7.8.4	P
1.7.8.1	Identification, location and marking*:	EL 2102-29	No such indication	N/A
1.7.8.2	Colours*	EL 2102-30	Colours used for only functional indication	P
1.7.8.3	Symbols according to IEC 60417*:	EL 2102-31	No such symbol used	N/A
1.7.8.4	Markings using figures* :	EL 2102-32	No such figures	N/A
1.7.9	Isolation of multiple power sources*	EL 2102-33	No multiple power sources	N/A
1.7.10	Thermostats and other regulating devices*	EL 2102-34	No such components	N/A
1.7.11	Durability	EL 2102-35	Marking were legible and durable after test	P
1.7.12	Removable parts*	EL 2102-36	No removable parts	N/A
1.7.13	Replaceable batteries*	EL 2102-37	No such battery used	N/A
	Language(s)		See above	N/A
1.7.14	Equipment for restricted access locations*	EL 2102-38	Not for restricted access location	N/A

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\*- Total number of Requirements to be observed / inspected = 35

Total No of applicable Requirement = 12

No of Requirements for which the sample passed = 12

Total number of tests to be conducted = 04

Total No of applicable Tests = 03

No. of tests for which the sample passed = 03

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

.....  
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Tests relating to Electrical Safety

## EL 2103 – V1.0

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	Equipment powered by SELV only	P
2.1.1.1	Access to energized parts	EL 2103-02	See above Cl. No. 2.1.1	P
	Test by inspection :		See above Cl. No. 2.1.1	P
	Test with test finger (Figure 2A)		See above Cl. No. 2.1.1	N/A
	Test with test pin (Figure 2B):		See above Cl. No. 2.1.1	N/A
	Test with test probe (Figure 2C)		No TNV circuits	N/A
2.1.1.2	Battery compartments *	EL 2103-03	No TNV circuit in battery compartment	N/A
2.1.1.3	Access to ELV wiring	EL 2103-04	No ELV wiring	N/A
	Working voltage (V <sub>peak</sub> or V <sub>rms</sub> ); minimum distance through insulation (mm)		See Above Cl. No. 2.1.1.3	N/A
2.1.1.4	Access to hazardous voltage circuit wiring	EL 2103-05	No hazardous voltage circuit wiring	N/A
2.1.1.5	Energy hazards :	EL 2103-06	See table 2.1.1.5	P
2.1.1.6	Manual controls	EL 2103-07	No Manual controls	N/A
2.1.1.7	Discharge of capacitors in equipment		See below	N/A
	Measured voltage (V); time-constant (s):	EL 2103-08	Class III equipment	N/A
2.1.1.8	Energy hazards – d.c. mains supply		No DC main supply	N/A
	a) Capacitor connected to the d.c. mains supply :	EL 2103-09	See above Cl. No. 2.1.1.8	N/A
	b) Internal battery connected to the d.c. mains supply :	EL 2103-10	See above Cl. No. 2.1.1.8	N/A
2.1.1.9	Audio amplifiers to be tested according to IEC 60065, cl. 9.1.1.:	EL 2103-11	No audio amplifier	N/A
2.1.2	Protection in service access areas	EL 2103-12	Class III Equipment	N/A
2.1.3	Protection in restricted access locations	EL 2103-13	Not for restricted access locations	N/A

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

Total No of applicable Requirement = 02

No of Requirements for which the sample passed = 02

Total number of tests to be conducted = 11

Total No of applicable Tests = 02

No. of tests for which the sample passed = 02

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

.....  
(Approving Authority)

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Tests relating to Electrical Safety

## EL 2104 – V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.2	SELV circuits*	EL 2104-00	Class III Equipment powered by SELV only	P
2.2.2	Voltages under normal conditions	EL 2104-01	See above Cl. No. 2.2	P
2.2.3	Voltages under fault conditions	EL 2104-02	See above Cl. No. 2.2	P
2.2.4	Connection of SELV circuits to other circuits* :	EL 2104-03	SELV-SELV connection only	P

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

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

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

.....  
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Tests relating to Electrical Safety

## EL 2105 – V1.0

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

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

Total No of applicable Requirement =00

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

Total number of tests to be conducted =10

Total No of applicable Tests =00

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

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

.....  
(Approving Authority)

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Tests relating to Electrical Safety

## EL 2106 – V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.4	Limited current circuits *	EL 2106-00	No such circuit	N/A
2.4.1	General requirements *	EL 2106-01	See above Cl. No. 2.4	N/A
2.4.2	Limit values	EL 2106-02	See above Cl. No. 2.4	N/A
2.4.3	Connection of limited current circuits to other circuits*	EL 2106-03	See above Cl. No. 2.4	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 =01  
 Total No of applicable Tests =00  
 No. of tests for which the sample passed =N/A

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

.....  
 (Approving Authority)

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Tests relating to Electrical Safety

## EL 2107 – V1.0

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

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

Total number of tests to be conducted =06  
 Total No of applicable Tests =02  
 No. of tests for which the sample passed =N/A

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

.....  
 (Approving Authority)

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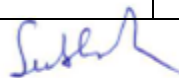
IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Electrical Safety

## EL 2108 – V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.6	Provisions for earthing and bonding*	EL 2108-00	Class III Equipment	N/A
2.6.1	Protective earthing	EL 2108-01	See above Cl. No. 2.6	N/A
2.6.2	Functional earthing : The Functional earthing either separated from hazardous voltages by double or reinforced insulation or by protectively earthed screen or conductive part separated by at least basic insulation, or safely connected to Protective Bonding Conductor.*	EL 2108-02	See above Cl. No. 2.6	N/A
	Use of symbol for functional earthing.*	EL 2108-03	See above Cl. No. 2.6	N/A
2.6.3	Protective earthing and protective bonding conductors*	EL 2108-04	See above Cl. No. 2.6	N/A
2.6.3.2	Size of protective earthing conductors	EL 2108-05	See above Cl. No. 2.6	N/A
	Rated current (A), cross-sectional area (mm <sup>2</sup> ),		See above Cl. No. 2.6	N/A
2.6.3.3	Size of protective bonding conductors	EL 2108-06	See above Cl. No. 2.6	N/A
	Protective current Rating (A), cross-sectional area (mm <sup>2</sup> )		See above Cl. No. 2.6	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	See above Cl. No. 2.6	N/A
2.6.3.5	Colour of insulation*:	EL 2108-08	See above Cl. No. 2.6	N/A
2.6.4	Terminals		See above Cl. No. 2.6	N/A
2.6.4.2	Protective earthing and bonding terminals : Rated current(A), Type, Nominal thread diameter (mm)	EL 2108-09	See above Cl. No. 2.6	N/A
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors*	EL 2108-10	See above Cl. No. 2.6	N/A
2.6.5	Integrity of protective earthing*		See above Cl. No. 2.6	N/A
2.6.5.1	Interconnection of equipment*	EL 2108-11	See above Cl. No. 2.6	N/A
2.6.5.2	Components in protective earthing conductors and protective bonding conductors*	EL 2108-12	See above Cl. No. 2.6	N/A

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2.6.5.3	Disconnection of protective earth*	EL 2108-13	See above Cl. No. 2.6	N/A
2.6.5.4	Parts that can be removed by an operator*	EL 2108-14	See above Cl. No. 2.6	N/A
2.6.5.5	Parts removed during servicing*	EL 2108-15	See above Cl. No. 2.6	N/A
2.6.5.6	Corrosion resistance*	EL 2108-16	See above Cl. No. 2.6	N/A
2.6.5.7	Screws for protective bonding*	EL 2108-17	See above Cl. No. 2.6	N/A
2.6.5.8	Reliance on telecommunication network or cable distribution system*	EL 2108-18	See above Cl. No. 2.6	N/A

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

Total No of applicable Requirement = 00

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

Total number of tests to be conducted = 05

Total No of applicable Tests = 00

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

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

.....  
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Tests relating to Electrical Safety

## EL 2109 – V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.7	Overcurrent and earth fault protection in primary circuits*	EL 2109-00	See below	N/A
2.7.1	Basic requirements: Protection in primary circuits against over currents, 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	Class III equipment	N/A
	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.		See above Cl. No. 2.7.1	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	See above Cl. No. 2.7.1	N/A
2.7.3	Short-circuit backup protection	EL 2109-03	See above Cl. No. 2.7.1	N/A
2.7.4	Number and location of protective devices :	EL 2109-04	See above Cl. No. 2.7.1	N/A
2.7.5	Protection by several devices*	EL 2109-05	See above Cl. No. 2.7.1	N/A
2.7.6	Warning to service personnel* :	EL 2109-06	See above Cl. No. 2.7.1	N/A

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

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

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

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 (Approving Authority)

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Tests relating to Electrical Safety

## EL 2110 – V1.0

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

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

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

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

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Tests relating to Electrical Safety

## EL 2111 – V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.9	Electrical insulation*	EL 2111-00	See Below	P
2.9.1	Properties of insulating materials*	EL 2111-01	Natural rubber, materials Containing asbestos and hygroscopic materials are not used as insulation	P
2.9.2	Humidity conditioning	EL 2111-02	Class III equipment	N/A
	Relative Humidity : 93 ±3 %, Temperature: t at 40 ± 2°C Duration : 120 hours			N/A
2.9.3	Grade of insulation*	EL 2111-03	Functional insulation	P
2.9.4	Separation from hazardous voltages*	EL 2111-04	No hazardous voltage	N/A
	Method(s) used		See above Cl. No. 2.9.4	N/A

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

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

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

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Tests relating to Electrical Safety

## EL 2112 – V1.0

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	DC Supply	N/A
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 the requirements of Cl. No.5.3.4 c)	P
2.10.1.4	Intervening unconnected conductive parts	EL 2112-04	No such part	N/A
2.10.1.5	Insulation with varying dimensions	EL 2112-05	No such insulation	N/A
2.10.1.6	Special separation requirements	EL 2112-06	No such requirement	N/A
2.10.1.7	Insulation in circuits generating starting pulses	EL 2112-07	No such circuit	N/A
2.10.2	Determination of working voltage	EL 2112-08	Class III equipment	N/A
2.10.2.2	RMS working voltage	EL 2112-09	See above Cl. No. 2.10.2	N/A
2.10.2.3	Peak working voltage	EL 2112-10	See above Cl. No. 2.10.2	N/A
2.10.3	Clearances	EL 2112-11	See above Cl. No. 2.10.2	N/A
2.10.3.1	General	EL 2112-12	See above	N/A
2.10.3.2	Mains transient voltages*		See below	N/A
	a) AC mains supply * :	EL 2112-13	No AC mains supply	N/A
	b) Earthed d.c. mains supplies* :	EL 2112-14	No DC mains supply	N/A
	c) Unearthed d.c. mains supplies* :	EL 2112-15	No DC mains supply	N/A
	d) Battery operation* :	EL 2112-16	Battery not used	N/A
2.10.3.3	Clearances in primary circuits	EL 2112-17	Class III equipment	N/A
2.10.3.4	Clearances in secondary circuits	EL 2112-18	Class III equipment	N/A
2.10.3.5	Clearances in circuits having starting pulses	EL 2112-19	No such circuits	N/A
2.10.3.6	Transients from a.c. mains supply :	EL 2112-20	No AC mains supply	N/A
2.10.3.7	Transients from d.c. mains supply :	EL 2112-21	No DC mains supply	N/A
2.10.3.8	Transients from telecommunication networks and cable distribution systems :	EL 2112-22	No telecommunication networks and cable distribution systems	N/A
2.10.3.9	Measurement of transient voltages		See below	N/A
	a) Transients from a mains supply	EL 2112-23	See below	N/A

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	For an a.c. mains supply		Not directly connected to mains	N/A
	For a d.c. mains supply		Not directly connected to mains	N/A
	b) Transients from a telecommunication network	EL 2112-24	No telecommunication network	N/A
2.10.4	Creepage distances*	EL 2112-25	Class III equipment	N/A
2.10.4.1	General	EL 2112-26	Class III equipment	N/A
2.10.4.2	Material group and comparative tracking index : CTI tests*	EL 2112-27		N/A
2.10.4.3	Minimum creepage distances	EL 2112-28		N/A
2.10.5	Solid insulation	EL 2112-29	No such insulation	N/A
2.10.5.1	General	EL 2112-30		N/A
2.10.5.2	Distances through insulation	EL 2112-31	No such insulation	N/A
2.10.5.3	Insulating compound as solid insulation	EL 2112-32	No such insulation	N/A
2.10.5.4	Semiconductor devices	EL 2112-33		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	No thin sheet material	N/A
2.10.5.7	Separable thin sheet material	EL 2112-36		N/A
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	No thin sheet material	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	No thin sheet material	N/A
	Electric strength test as per Cl.5.2.2			N/A
2.10.5.11	Insulation in wound components	EL 2112-40		N/A
2.10.5.12	Wire in wound components			N/A
	If Peak Working voltage >71 V			N/A
	a) Basic insulation not under stress	EL 2112-41		N/A
	b) Basic, supplementary, reinforced insulation	EL 2112-42		N/A
	c) Compliance with Annex U	EL 2112-43		N/A
	d) Where two winding wires in contact inside wound component; angle between 45° and 90°	EL 2112-44		N/A
2.10.5.13	Wire with solvent-based enamel in wound components		No such construction	N/A
	a) Electric strength test (Type test as per Cl.5.2.2)	EL 2112-45	See above Cl. No. 2.10.5.13	N/A
	b) Electric Strength test (Routine test as per Cl.5.2.2)	EL 2112-46	See above Cl. No. 2.10.5.13	N/A
2.10.5.14	Additional insulation in wound components			N/A
	If Peak Working Voltage >71V			N/A
	a) Basic insulation not under stress	EL 2112-47		N/A

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	b) Supplementary, reinforced insulation	EL 2112-48		N/A
2.10.6	Construction of printed boards*		Uncoated printed board used	P
2.10.6.1	Uncoated printed boards	EL 2112-49	Functional insulation complies with requirements	P
2.10.6.2	Coated printed boards	EL 2112-50	Not used	N/A
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	EL 2112-51	No such construction	N/A
2.10.6.4	Insulation between conductors on different surfaces of a printed board*		No such construction	N/A
	a) Minimum Thickness of insulation: 0.4mm or	EL 2112-52	See above Cl. No. 2.10.6.4	N/A
	b) Confirm with one of the specification and pass the relevant tests as per Table 2R	EL 2112-53	See above Cl. No. 2.10.6.4	N/A
2.10.7	Component external terminations	EL 2112-54	No such construction	N/A
2.10.8	Tests on coated printed boards and coated components		Uncoated printed board used	N/A
2.10.8.1	Sample preparation and preliminary inspection*	EL 2112-55	See above Cl. No. 2.10.8	N/A
2.10.8.2	Thermal conditioning	EL 2112-56	See above Cl. No. 2.10.8	N/A
2.10.8.3	Electric strength test	EL 2112-57	See above Cl. No. 2.10.8	N/A
2.10.8.4	Abrasion resistance test	EL 2112-58	See above Cl. No. 2.10.8	N/A
2.10.9	Thermal cycling	EL 2112-59	Not required	N/A
2.10.10	Test for Pollution Degree 1 environment and insulating compound	EL 2112-60	Pollution Degree 2	N/A
2.10.11	Tests for semiconductor devices and cemented joints	EL 2112-61		N/A
2.10.12	Enclosed and sealed parts	EL 2112-62	No such parts	N/A

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

Total No of applicable Requirement = 02

No of Requirements for which the sample passed = 02

Total number of tests to be conducted = 53

Total No of applicable Tests = 02

No. of tests for which the sample passed = 02

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

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(Approving Authority)

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Tests relating to Wiring

## EL 2113 – V1.0

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	Adequate cross-sectional area used for internal wires and interconnecting cables	P
3.1.2	Protection against mechanical damage*	EL 2113-02	Wire ways are smooth and free from sharp edges	P
3.1.3	Securing of internal wiring*	EL 2113-03	Internal wiring are well secured by proper means	P
3.1.4	Insulation of conductors	EL 2113-04		N/A
3.1.5	Beads and ceramic insulators	EL 2113-05	Beads and ceramic insulators are not used	N/A
3.1.6	Screws for electrical contact pressure*	EL 2113-06	No such screws used	N/A
3.1.7	Insulating materials in electrical connections*	EL 2113-07	No Insulating materials in electrical connections	N/A
3.1.8	Self-tapping and spaced thread screws*	EL 2113-08	No such screws used	N/A
3.1.9	Termination of conductors : 10 N pull test	EL 2113-09	No such termination	N/A
3.1.10	Sleeving on wiring*	EL 2113-10		N/A

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

Total number of tests to be conducted =04  
 Total No of applicable Tests =01  
 No. of tests for which the sample passed =01

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

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Tests relating to Wiring

## EL 2114 – V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
3.2	Connection to a mains supply*	EL 2114-00	Equipment not directly connected to mains	N/A
3.2.1	Means of connection		See above Cl. No. 3.2	N/A
3.2.1.1	Connection to an a.c. mains supply*	EL 2114-01	See above Cl. No. 3.2	N/A
3.2.1.2	Connection to a d.c. mains supply*	EL 2114-02	See above Cl. No. 3.2	N/A
3.2.2	Multiple supply connections	EL 2114-03	See above Cl. No. 3.2	N/A
3.2.3	Permanently connected equipment	EL 2114-04	See above Cl. No. 3.2	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	See above Cl. No. 3.2	N/A
3.2.5	Power supply cords		See above Cl. No. 3.2	N/A
3.2.5.1	AC power supply cords*	EL 2114-06	See above Cl. No. 3.2	N/A
	Rated current (A), cross-sectional area (mm <sup>2</sup> ), AWG		See above Cl. No. 3.2	N/A
3.2.5.2	DC power supply cords*	EL 2114-07	See above Cl. No. 3.2	N/A
3.2.6	Cord anchorages and strain relief		See above Cl. No. 3.2	N/A
	Mass of the equipment: Pull Force (N):	EL 2114-08	See above Cl. No. 3.2	N/A
	b) Longitudinal displacement: 2 mm (Max)	EL 2114-09	See above Cl. No. 3.2	N/A
3.2.7	Protection against mechanical damage	EL 2114-10	See above Cl. No. 3.2	N/A
3.2.8	Cord guards		See above Cl. No. 3.2	N/A

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	a) Diameter or minor dimension D (mm) : Test mass (g) :	EL 2114-11	See above Cl. No. 3.2	N/A
	b) Radius of curvature of cord : 1.5 D (Min)	EL 2114-12	See above Cl. No. 3.2	N/A
3.2.9	Supply wiring space	EL 2114-13	See above Cl. No. 3.2	N/A

\*- Total number of Requirements to be observed / inspected =05  
 Total No of applicable Requirement =00  
 No of Requirements for which the sample passed =N/A

Total number of tests to be conducted =09  
 Total No of applicable Tests =00  
 No. of tests for which the sample passed =N/A

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

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Tests relating to Wiring

## EL 2115 – V1.0

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

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

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

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

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Tests relating to Wiring

## EL 2116 – V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
3.4	Disconnection from the mains supply*	EL 2116-00	Equipment not directly connected to mains	N/A
3.4.1	General Requirement A disconnect device or devices shall be provided to disconnect the equipment from the mains supply for servicing.*	EL 2116-01	See above Cl. No. 3.4	N/A
3.4.2	Disconnect devices*	EL 2116-02	See above Cl. No. 3.4	N/A
3.4.3	Permanently connected equipment*	EL 2116-03	See above Cl. No. 3.4	N/A
3.4.4	Parts which remain energized*	EL 2116-04	See above Cl. No. 3.4	N/A
3.4.5	Switches in flexible cords*	EL 2116-05	See above Cl. No. 3.4	N/A
3.4.6	Number of poles – single-phase and d.c. equipment*	EL 2116-06	See above Cl. No. 3.4	N/A
3.4.7	Number of poles – three-phase equipment*	EL 2116-07	See above Cl. No. 3.4	N/A
3.4.8	Switches as disconnect devices*	EL 2116-08	See above Cl. No. 3.4	N/A
3.4.9	Plugs as disconnect devices*	EL 2116-09	See above Cl. No. 3.4	N/A
3.4.10	Interconnected equipment*	EL 2116-10	See above Cl. No. 3.4	N/A
3.4.11	Multiple power sources*	EL 2116-11	See above Cl. No. 3.4	N/A

\*- Total number of Requirements to be observed / inspected = 12  
 Total No of applicable Requirement = 00  
 No of Requirements for which the sample passed = N/A

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

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

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 (Approving Authority)

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Tests relating to Wiring

## EL 2117 – V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
3.5	Interconnection of equipment*	EL 2117-00	Comply	P
3.5.1	General requirements*	EL 2117-01	See Below	P
3.5.2	Types of interconnection circuits*	EL 2117-02	SELV to SELV connection only	P
3.5.3	ELV circuits as interconnection circuits *	EL 2117-03	No ELV Circuit	N/A
3.5.4	Data ports for additional equipment	EL 2117-04	Complies	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 =N/A

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

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 (Approving Authority)

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Tests relating to Mechanical Properties

## EL 2118 – V1.0

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

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

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

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

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Tests relating to Mechanical Properties

## EL 2119 – V1.0

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	See below	P
4.2.2	Steady force test, 10 N	EL 2119-02	Force Applied on component. Result No damage, No Hazards	P
4.2.3	Steady force test, 30 N	EL 2119-03	No Such parts	N/A
4.2.4	Steady force test, 250 N	EL 2119-04	Force applied on all side of enclosure. Result No damage, No Hazards	P
4.2.5	Impact test	EL 2119-05	See below	P
	a) Fall test as per Fig. 4A	EL 2119-06	Complies	P
	b) Swing test as per Fig. 4A	EL 2119-07	Complies	P
4.2.6	Drop test; height (mm) :	EL 2119-08	No such equipment	N/A
4.2.7	Stress relief test	EL 2119-09	Metallic enclosure used	N/A
4.2.8	Cathode Ray Tubes	EL 2119-10		N/A
4.2.9	High Pressure Lamps*	EL 2119-11	No such lamps used	N/A
4.2.10	Wall or ceiling mounted equipment; force(N)	EL 2119-12	No such equipment	N/A

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

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

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

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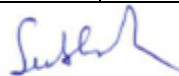
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Tests relating to Mechanical Properties

## EL 2120 – V1.0

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	All edges or corners assessable to operators are rounded and smoothed	P
4.3.2	Handles and manual controls; force (N) :	EL 2120-02	Handles and manual controls are not used	N/A
4.3.3	Adjustable controls	EL 2120-03	No such controls used	N/A
4.3.4	Securing of parts	EL 2120-04	Parts are secured against mechanical stress occurring in normal use	P
4.3.5	Connections by Plugs and Sockets*	EL 2120-05	No plug and sockets used	N/A
4.3.6	Direct plug-in equipment	EL 2120-06	No direct plug –in equipment	N/A
	Torque	EL 2120-07	See above Cl. No. 4.3.6	N/A
	Compliance with the relevant mains plug standard	EL 2120-08	See above Cl. No. 4.3.6	N/A
4.3.7	Heating elements in earthed equipment*	EL 2120-09	No heating elements used	N/A
4.3.8	Batteries Portable secondary sealed cells and batteries (other than button) containing alkaline or other non-acid electrolyte shall comply with IEC 62133		RTC Battery used (See table 1.5.1)	N/A
	a) Overcharging of a rechargeable battery	EL 2120-10	See above cl. No. 4.3.8	N/A
	b) Unintentional charging of a non-rechargeable battery	EL 2120-11	See above cl. No. 4.3.8	N/A
	c) Reverse charging of a rechargeable battery	EL 2120-12	See above cl. No. 4.3.8	N/A
	d) Excessive discharging rate for any battery	EL 2120-13	See above cl. No. 4.3.8	N/A
	e) Electric strength as per Cl.5.3.9.2	EL 2120-14	See above cl. No. 4.3.8	N/A
4.3.9	Oil & grease*	EL 2120-15	Oil & grease are not used	N/A
4.3.10	Dust, powders, liquids and gases	EL 2120-16	Equipment neither use nor produce them	N/A
4.3.11	Containers for liquids or gases	EL 2120-17	Equipment does not contain liquid or gases	N/A

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4.3.12	Flammable liquids	EL 2120-18	No flammable liquids	N/A
4.3.13	Radiation		No hazardous radiation	N/A
4.3.13.2	Ionizing radiation	EL 2120-19		N/A
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	EL 2120-20		N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation	EL 2120-21		N/A
4.3.13.5	Lasers (including laser diodes) and LED's:			N/A
4.3.13.5.1	Lasers (including laser diodes) For laser see IEC 60825-1, respective part as applicable.	EL 2120-22		N/A
	Laser class :			N/A
4.3.13.5.2	Light emitting diodes (LED's)	EL 2120-23	Low power LED used	N/A
4.3.13.6	Other types*	EL 2120-24	No other type of radiation	N/A

\*- Total number of Requirements to be observed / inspected =06  
 Total No of applicable Requirement =02  
 No of Requirements for which the sample passed =02

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

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

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Tests relating to Mechanical Properties

## EL 2121 – V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
4.4	Protection against hazardous moving parts	EL 2121-00		P
4.4.1	General	EL 2121-01	See below	P
4.4.2	Protection in operator access areas	EL 2121-02	Fan is not present in operator accessible area	P
4.4.3	Protection in restricted access locations *	EL 2121-03	Unintentional contact with moving part is unlikely	N/A
4.4.4	Protection in service access areas*	EL 2121-04	Unintentional contact with moving part is unlikely	N/A
4.4.5	Protection against moving fan blades	EL 2121-05	Fan is not present in operator accessible area	P
4.4.5.1	General*	EL 2121-06	See above cl. No. 4.4.5	N/A
	Not considered likely to cause pain or injury. A) :	EL 2121-07	See above cl. No. 4.4.5	N/A
	Is considered likely to cause pain, not injury. B)	EL 2121-08	See above cl. No. 4.4.5	N/A
	Considered likely to cause injury. C) :	EL 2121-09	See above cl. No. 4.4.5	N/A
4.4.5.2	Protection for users*	EL 2121-10	Moving fans are adequate enclosed and guarded	N/A
	Use of symbol or warning*	EL 2121-11		N/A
4.4.5.3	Protection for service persons*	EL 2121-12	Unintentional contact with moving part is unlikely	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 = 04  
 No of Requirements for which the sample passed =04

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

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

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Tests relating to Thermal Properties

## EL 2122 – V1.0

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	See table 4.5	P
4.5.2	Temperature tests	EL 2122-02	See table 4.5	P
4.5.3	Temperature limits for materials*	EL 2122-03	See table 4.5	P
4.5.4	Touch temperature limits*	EL 2122-04	See table 4.5	P
4.5.5	Resistance to abnormal heat	EL 2122-05	No such parts	N/A

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

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

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

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Tests relating to Mechanical Properties

## EL 2123 – V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
4.6	Openings in enclosures*	EL 2123-00		N/A
4.6.1	Top and side openings	EL 2123-01	No openings	N/A
	Dimensions (mm) :			N/A
4.6.2	Bottoms of fire enclosures :	EL 2123-02	No openings	N/A
	Construction of the bottom, dimensions (mm) :			N/A
4.6.3	Doors or covers in fire enclosures*	EL 2123-03	No doors or covers	N/A
4.6.4	Openings in transportable equipment	EL 2123-04		N/A
4.6.4.1	Constructional design measures	EL 2123-05	No openings	N/A
	Dimensions (mm)		See above Cl. No. 4.6.4.1	N/A
4.6.4.2	Evaluation measures for larger openings	EL 2123-06	See above Cl. No. 4.6.4.1	N/A
4.6.4.3	Use of metallized parts	EL 2123-07	See above Cl. No. 4.6.4.1	N/A
4.6.5	Adhesives for constructional purposes: Compliance is checked by examination of the construction and of the available data. If such data is not available, compliance is checked by the following tests.	EL 2123-08	No adhesives used	N/A
	a) Temperature Conditioning at : 100 °C ± 2 °C for one week; or 90 °C ± 2 °C for three weeks; or 82 °C ± 2 °C for eight weeks.	EL 2123-09	See above Cl. No. 4.6.5	N/A
	After temperature conditioning b) Leave the sample between 20°C to 30°C for 1 hour	EL 2123-10	See above Cl. No. 4.6.5	N/A
	c) Place the sample at - 40°C±2°C for 4 hours	EL 2123-11	See above Cl. No. 4.6.5	N/A
	d) Remove and allow the sample to come to any convenient temperature between 20 °C and 30 °C for 8 h;	EL 2123-12	See above Cl. No. 4.6.5	N/A

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	e) Place the sample in a cabinet at 91 % to 95 % relative humidity for 72 h;	EL 2123-13	See above Cl. No. 4.6.5	N/A
	f) Remove the sample and leave it at any convenient temperature between 20 °C and 30 °C for 1 h;	EL 2123-14	See above Cl. No. 4.6.5	N/A
	g) Place the sample in an oven at the temperature used for the temperature conditioning for 4 h;	EL 2123-15	See above Cl. No. 4.6.5	N/A
	h) Remove the sample and allow it to reach any convenient temperature between 20 °C; and 30 °C for 8 h.	EL 2123-16	See above Cl. No. 4.6.5	N/A
	i) The sample is then immediately subjected to the tests of Cl.4.2 as applicable.	EL 2123-17	See above Cl. No. 4.6.5	N/A

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

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

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

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Tests relating to Fire Safety

## EL 2124 – V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
4.7	Resistance to fire*	EL 2124-00		P
4.7.1	Reducing the risk of ignition and spread of flame		See below	P
	Method 1, selection and application of components wiring and materials OR	EL 2124-01	Method 1 used (See table 1.5.1)	P
	Method 2, application of all of simulated fault condition tests	EL 2124-02	Method 2 not used	N/A
4.7.2	Conditions for a fire enclosure*		See below	P
4.7.2.1	Parts requiring a fire enclosure*	EL 2124-03	Fire enclosure required to covered all Parts	P
4.7.2.2	Parts not requiring a fire enclosure	EL 2124-04	See above	N/A
4.7.3	Materials*	EL 2124-05	See below Cl. No. 4.7.3.1 to 4.7.3.5	P
4.7.3.1	General*	EL 2124-06	See below	P
	a) Class of material used*	EL 2124-07	Certified material used (See table 1.5.1)	P
	b) Where HB40 CLASS MATERIAL, HB75 CLASS MATERIAL or HBF CLASS FOAMED MATERIAL, is required, material passing the glow-wire test at 550 °C according to IEC 60695-2-11 is acceptable as an alternative.	EL 2124-08	No such material used	N/A
	c) Where it is not practical to protect components against overheating under fault conditions, the components shall be mounted on V-1 CLASS MATERIAL. Additionally, such components shall be separated from material of a class lower than V-1 CLASS MATERIAL by at least 13 mm of air, or by a solid barrier of V-1 CLASS MATERIAL.	EL 2124-09	Components mounted on V-0 class material used	P
4.7.3.2	Materials for fire enclosures		Metallic enclosure used	N/A
	a) For MOVABLE EQUIPMENT having a total mass not exceeding 18 kg, the material of a FIRE ENCLOSURE, in the thinnest significant wall thickness used, shall be of V-1 CLASS MATERIAL or shall pass the test of Clause A.2.	EL 2124-10	See above Cl. No. 4.7.3.2	N/A

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	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	No such equipment	N/A
	c) Materials for components that fill an opening in a FIRE ENCLOSURE, and that are intended to be mounted in this opening shall : be of V-1 CLASS MATERIAL; or pass the tests of Clause A.2; or comply with the flammability requirements of the relevant IEC component standard	EL 2124-12	See above Cl. No. 4.7.3.2	N/A
	d) Plastic materials of a FIRE ENCLOSURE shall be located more than 13 mm through air from arcing parts such as unenclosed commutators and unenclosed switch contacts.	EL 2124-13	See above Cl. No. 4.7.3.2	N/A
	e) Plastic materials of a FIRE ENCLOSURE located less than 13mm through air from non-arcing parts which, under any condition of normal or abnormal operation, could attain a temperature sufficient to ignite the material, shall be capable of passing the test of IEC 60695-2-20.  The average time to ignition of the samples shall be not less than 15sec. If the sample melts through without igniting, the time at which this occurs is not considered to be the time to ignition.	EL 2124-14	No such construction	N/A
4.7.3.3	Materials for components and other parts outside fire enclosures *		No components and other parts outside fire enclosure	N/A
	a) Materials shall be of : – HB75 CLASS MATERIAL if the thinnest significant thickness of this material is < 3 mm, or – HB40 CLASS MATERIAL if the thinnest significant thickness of this material is ≥ 3 mm, or – HBF CLASS FOAMED MATERIAL.*	EL 2124-15	See above Cl. No. 4.7.3.3	N/A

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	b) Connectors shall comply with one of the following: – be made of V-2 CLASS MATERIAL; or – pass the tests of Clause A.2; or – comply with the flammability requirements of the relevant IEC component standard; or – be mounted on V-1 CLASS MATERIAL and be of a small size; or – be located in a SECONDARY CIRCUIT supplied by a power source that is limited to a maximum of 15 VA (see 1.4.11) under normal operating conditions and after a single fault in the equipment (see 1.4.14).	EL 2124-16	See above Cl. No. 4.7.3.3	N/A
4.7.3.4	Materials for components and other parts inside fire enclosures		Certified material used (see table 1.5.1)	P
	a) Inside FIRE ENCLOSURES, materials for components and other parts shall comply with one of the following: – be of V-2 CLASS MATERIAL or HF-2 CLASS FOAMED MATERIAL; or – pass the flammability test described in Clause A.2; or – meet the flammability requirements of a relevant IEC component standard that includes such requirements.	EL 2124-17	See above Cl. No. 4.7.3.4	P
	Requirements for voltage dependent resistors (VDR's) are in Annex Q.*	EL 2124-18	No such construction	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	Air filter assembly not used	N/A
4.7.3.6	Materials used in high-voltage components		No such components used	N/A
	a) High-voltage components operating at peak-to-peak voltages exceeding 4 kV shall either be of V-2 CLASS MATERIAL, or HF-2 CLASS FOAMED MATERIAL, or comply with 14.4 of IEC 60065 or pass the needle flame test according to IEC 60695-11-5.	EL 2124-20	See above Cl. No. 4.7.3.6	N/A

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	b) Compliance is checked by inspection of the equipment and material data sheets and, if necessary, by – the tests for V-2 CLASS MATERIAL or HF-2 CLASS FOAMED MATERIAL; or – the test described in 14.4 of IEC 60065; or – the needle flame test according to IEC 60695-11-5.	EL 2124-21	See above Cl. No. 4.7.3.6	N/A
	c) In addition to above, the following details apply, referring to clauses of IEC 60695-11-5: Clause 7 - Severities	EL 2124-22	See above Cl. No. 4.7.3.6	N/A
	Clause 8 – Conditioning	EL 2124-23	See above Cl. No. 4.7.3.6	N/A
	Clause 11 – Evaluation of test results	EL 2124-24	See above Cl. No. 4.7.3.6	N/A

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

Total number of tests to be conducted = 18  
 Total No of applicable Tests = 06  
 No. of tests for which the sample passed = 06

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

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Tests relating to Insulating Properties

## EL 2125 – V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
5.0	ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS*	EL 2125-00		P
5.1	Touch current and protective conductor current*	EL 2125-01	Class III equipment	N/A
5.1.2	Configuration of equipment under test (EUT)*	EL 2125-02	See above Cl. No. 5.1	N/A
5.1.2.1	Single connection to an a.c. mains supply*	EL 2125-03	See above Cl. No. 5.1	N/A
5.1.2.2	Redundant multiple connections to an a.c. mains supply*	EL 2125-04	See above Cl. No. 5.1	N/A
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply	EL 2125-05	See above Cl. No. 5.1	N/A
5.1.3	Test circuit	EL 2125-06	See above Cl. No. 5.1	N/A
5.1.4	Application of measuring instrument	EL 2125-07	See above Cl. No. 5.1	N/A
5.1.5	Test procedure	EL 2125-08	See above Cl. No. 5.1	N/A
5.1.6	Test measurements		See above Cl. No. 5.1	N/A
	a) r.m.s value of voltage, U <sub>2</sub> measured using the instrument as per Fig. D.1 or r.m.s value of current measured using the instrument as per Fig. D.2 Alternatively, peak value of voltage, U <sub>2</sub> , is measured using the measuring instrument described in Clause D.1	EL 2125-09	See above Cl. No. 5.1	N/A
	b) Measured touch current (mA):	EL 2125-10	See above Cl. No. 5.1	N/A
	c) Calculated value of TOUCH CURRENT (mA) = U <sub>2</sub> / 500	EL 2125-11	See above Cl. No. 5.1	N/A
	d) Measured protective conductor current(mA)	EL 2125-12	See above Cl. No. 5.1	N/A
	e) Max. protective conductor current =5% of Input current	EL 2125-13	See above Cl. No. 5.1	N/A
5.1.7	Equipment with touch current exceeding 3.5 mA	EL 2125-14	See above Cl. No. 5.1	N/A

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5.1.7.1	General	EL 2125-15	See above Cl. No. 5.1	N/A
5.1.7.2	Simultaneous multiple connections to the supply	EL 2125-16	See above Cl. No. 5.1	N/A
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks	EL 2125-17	See above Cl. No. 5.1	N/A
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system	EL 2125-18	See above Cl. No. 5.1	N/A
	Supply voltage (V)		See above Cl. No. 5.1	N/A
	Measured touch current (mA)		See above Cl. No. 5.1	N/A
	Max. allowed touch current (mA)		See above Cl. No. 5.1	N/A
5.1.8.2	Summation of touch currents from telecommunication networks	EL 2125-19	See above Cl. No. 5.1	N/A
	a) EUT with earthed telecommunication ports :		See above Cl. No. 5.1	N/A
	b) EUT whose telecommunication ports have no reference to protective earth		See above Cl. No. 5.1	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 = 15  
 Total No of applicable Tests = 00  
 No. of tests for which the sample passed = N/A

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

.....  
 (Approving Authority)

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Tests relating to Insulating Properties

## EL 2126 – V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
5.2	Electric strength*	EL 2126-00	Class III equipment	N/A
5.2.1	General*	EL 2126-01	See above Cl. No. 5.2	N/A
5.2.2	Test procedure		See above Cl. No. 5.2	N/A
	a) The test voltages for electric strength for the appropriate grade of insulation [FUNCTIONAL INSULATION if required by 5.3.4 b), BASIC INSULATION, SUPPLEMENTARY INSULATION or REINFORCED INSULATION] are as specified in either: – Table 5B using the PEAK WORKING VOLTAGE (U), as determined in 2.10.2; or – Table 5C using the REQUIRED WITHSTAND VOLTAGE, as determined in G.4.	EL 2126-02	See above Cl. No. 5.2	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 = 01  
 Total No of applicable Tests = 00  
 No. of tests for which the sample passed =N/A

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

.....  
 (Approving Authority)

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Tests relating to Insulating Properties

## EL 2127 – V1.0

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 table 5.3	P
5.3.2	Motors	EL 2127-02	See Annex B	P
5.3.3	Transformers	EL 2127-03	No transformer used	N/A
5.3.4	Functional insulation:	EL 2127-04	Complies with requirements of Cl. No. 5.3.4 c)	P
5.3.5	Electromechanical components	EL 2127-05	No electromechanical components	N/A
5.3.6	Audio amplifiers in ITE :	EL 2127-06	No such equipment	N/A
5.3.7	Simulation of faults	EL 2127-07	See table 5.3	P
5.3.8	Unattended equipment	EL 2127-08	No unattended equipment	N/A
5.3.9	Compliance criteria for abnormal operating and fault conditions*		See table 5.3	P
5.3.9.1	During the tests	EL 2127-09	No fire occurred, No molten material emitted and no distortion of enclosure	P
5.3.9.2	After the tests	EL 2127-10	Since it is only functional insulation for SELV circuits and as per other conditions no test required	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 =11  
 Total No of applicable Tests = 06  
 No. of tests for which the sample passed = 06

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

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 (Approving Authority)

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Tests relating to Communicating Connection

## EL 2128 – V1.0

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	Not for connection to telecommunication network	N/A
6.1.1	Protection from hazardous voltages	EL 2128-01	See above cl.no.6.1	N/A
6.1.2	Separation of the telecommunication network from earth*		See above cl.no.6.1	N/A
6.1.2.1	<p>Requirements:</p> <ul style="list-style-type: none"> <li>- Surge suppressors that bridge the insulation shall have a minimum rated operating voltage <math>U_{op}</math> of</li> </ul> $U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$ <p>Where <math>U_{peak}</math> is 360V or 180V</p> <p><math>\Delta U_{sp}</math> is the maximum increase of the rated operating voltage due to variations in component production (If not specified by the manufacturer, shall be taken as 10% of the rated operating voltage of the component)</p> <p><math>\Delta U_{sa}</math> is the maximum increase of the rated operating voltage due to the component ageing over the expected life of the equipment (If not specified by the manufacturer, shall be taken as 10% of the rated operating voltage of the component)</p> <ul style="list-style-type: none"> <li>- Insulation is subjected to electric strength test according to 5.2.2. The a.c test voltage is 1.5kV or 1.0kV</li> <li>- 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.</li> </ul>	EL 2128-02	See above cl.no.6.1	N/A




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Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
6.1.2.2	Exclusions	EL 2128-03	See above cl.no.6.1	N/A

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

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

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

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Tests relating to Communicating Connection

## EL 2129 – V1.0

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	Not for connection to telecommunication network	N/A
6.2.1	Separation requirements	EL 2129-01	See above cl.no.6.2	N/A
6.2.2	Electric strength test procedure	EL 2129-02	See above cl.no.6.2	N/A
6.2.2.1	Impulse test	EL 2129-03	See above cl.no.6.2	N/A
6.2.2.2	Steady-state test	EL 2129-04	See above cl.no.6.2	N/A
6.2.2.3	Compliance criteria	EL 2129-05	See above cl.no.6.2	N/A

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

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

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

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 (Approving Authority)

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Tests relating to Communicating Connection

## EL 2130 – V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
6.3	Protection of the telecommunication wiring system from overheating	EL 2130-00	Not for connection to telecommunication wiring system	N/A
	a) If current limiting is due to the inherent impedance of the power source, the output current into any resistive load, including a short-circuit, is measured. The current limit shall not be exceeded after 60 s of test. Max. output current (A) :	EL 2130-01	See above cl.no.6.3	N/A
	b) If current limiting is provided by an overcurrent protective device having a specified time/current characteristic: – the time/current characteristic shall show that a current equal to 110 % of the current limit will be interrupted within 60 min; and	EL 2130-02	See above cl.no.6.3	N/A
	c) the output current into any resistive load, including a short-circuit, with the overcurrent protective device bypassed, measured after 60 s of test, shall not exceed $1000/U$ , where U is the output voltage measured in accordance with 1.4.5 with all load circuits disconnected.	EL 2130-03	See above cl.no.6.3	N/A

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<p>d) If current limiting is provided by an overcurrent protective device that does not have a specified time/current characteristic:</p> <ul style="list-style-type: none"> <li>– the output current into any resistive load, including a short-circuit, shall not exceed the current limit after 60 s of test; and</li> <li>– 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 <math>1\ 000/U</math>, where U is the output voltage measured in accordance with 1.4.5 with all load circuits disconnected.</li> </ul>	EL 2130-04	See above cl.no.6.3	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 = 05

Total No of applicable Tests = 00

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

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

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Tests relating to Connection to cable distribution system

## EL 2131 – V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
7	Connection to cable distribution systems*	EL 2131-00	Not for Connection to cable distribution systems	N/A
7.1	General requirements*	EL 2131-01	See above cl.no.7	N/A
7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment	EL 2131-02	See above cl.no.7	N/A
7.3	Protection of equipment users from overvoltages on the cable distribution system	EL 2131-03	See above cl.no.7	N/A
7.4	Insulation between primary circuits and cable distribution systems	EL 2131-04	See above cl.no.7	N/A
7.4.1	General	EL 2131-05	See above cl.no.7	N/A
7.4.2	Voltage surge test	EL 2131-06	See above cl.no.7	N/A
7.4.3	Impulse test	EL 2131-07	See above cl.no.7	N/A

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

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

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

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Tests relating to Fire Safety

## EL 2132 – V1.0

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	No such equipment	N/A
A.1.1	Samples:	EL 2132-02	See above A.1	N/A
	Wall thickness (mm):		See above A.1	N/A
A.1.2	Conditioning of samples; temperature (°C) :	EL 2132-03	See above A.1	N/A
A.1.3	Mounting of samples :	EL 2132-04	See above A.1	N/A
A.1.4	Test flame (see IEC 60695-11-3)	EL 2132-05	See above A.1	N/A
	Flame A, B, C or D :		See above A.1	N/A
A.1.5	Test procedure	EL 2132-06	See above A.1	N/A
A.1.6	Compliance criteria	EL 2132-07	See above A.1	N/A
	Sample 1 burning time (s):		See above A.1	N/A
	Sample 2 burning time (s):		See above A.1	N/A
	Sample 3 burning time (s):		See above A.1	N/A
A.2	Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4)	EL 2132-08	Certified material used (see table 1.5.1)	P
A.2.1	Samples, material:	EL 2132-09	See above A.2	N/A
	Wall thickness (mm):		See above A.2	N/A
A.2.2	Conditioning of samples; temperature (°C) :	EL 2132-10	See above A.2	N/A
A.2.3	Mounting of samples :	EL 2132-11	See above A.2	N/A
A.2.4	Test flame (see IEC 60695-11-4)	EL 2132-12	See above A.2	N/A
	Flame A, B or C :		See above A.2	N/A

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Tests relating to Fire Safety

## EL 2132 – V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
A.2.5	Test procedure	EL 2132-13	See above A.2	N/A
A.2.6	Compliance criteria	EL 2132-14	See above A.2	N/A
	Sample 1 burning time (s):		See above A.2	N/A
	Sample 2 burning time (s):		See above A.2	N/A
	Sample 3 burning time (s):		See above A.2	N/A
A.2.7	Alternative test acc. To IEC 60695-11-5, cl. 5 and 9	EL 2132-15	See above A.2	N/A
	Sample 1 burning time (s):		See above A.2	N/A
	Sample 2 burning time (s):		See above A.2	N/A
	Sample 3 burning time (s):		See above A.2	N/A
A.3	Hot flaming oil test (see 4.6.2)	EL 2132-16	No opening.	N/A
A.3.1	Mounting of samples	EL 2132-17	See above A.3	N/A
A.3.2	Test procedure	EL 2132-18	See above A.3	N/A
A.3.3	Compliance criterion	EL 2132-19	See above A.3	N/A

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

Total number of tests to be conducted = 20  
 Total No of applicable Tests = 03  
 No. of tests for which the sample passed = 03

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Tests relating to Insulating Properties

## EL 2133 – V1.0

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	P
B.1	General requirements	EL 2133-01	Certified DC fan used(see table 1.5.1)	P
	Position :		Inside the metallic enclosure	P
	Manufacturer :		See table 1.5.1	P
	Type :		See table 1.5.1	P
	Rated values :		See table 1.5.1	P
B.2	Test conditions	EL 2133-02	See above B.1	N/A
B.3	Maximum temperatures	EL 2133-03	See above B.1	N/A
B.4	Running overload test	EL 2133-04	See above B.1	N/A
B.5	Locked-rotor overload test	EL 2133-05	See above B.1	N/A
	Test duration (days):		See above B.1	N/A
	Electric strength test: test voltage (V) :		See above B.1	N/A
B.6	Running overload test for d.c. motors in secondary circuits	EL 2133-06	See above B.1	N/A
B.6.1	General	EL 2133-07	See above B.1	N/A
B.6.2	Test procedure	EL 2133-08	See above B.1	N/A
B.6.3	Alternative test procedure	EL 2133-09	See above B.1	N/A
B.6.4	Electric strength test; test voltage (V):	EL 2133-10	See above B.1	N/A
B.7	Locked-rotor overload test for d.c. motors in secondary circuits	EL 2133-11	See above B.1	N/A
B.7.1	General	EL 2133-12	See above B.1	N/A
B.7.2	Test procedure	EL 2133-13	See above B.1	N/A
B.7.3	Alternative test procedure	EL 2133-14	See above B.1	N/A
B.7.4	Electric strength test; test voltage (V) :	EL 2133-15	See above B.1	N/A
B.8	Test for motors with capacitors	EL 2133-16	See above B.1	N/A
B.9	Test for three-phase motors	EL 2133-17	See above B.1	N/A

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Tests relating to Insulating Properties

### EL 2133 – V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
B.10	Test for series motors	EL 2133-18	See above B.1	N/A
	Operating voltage (V) :		See above B.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 = 19  
 Total No of applicable Tests = 02  
 No. of tests for which the sample passed = 02

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

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Tests relating to Electrical Safety

## EL 2134 – V1.0

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	No transformer used	N/A
	Position :		See annex C	N/A
	Manufacturer :		See annex C	N/A
	Type :		See annex C	N/A
	Rated values :		See annex C	N/A
	Method of protection:		See annex C	N/A
C.1	Overload test	EL 2134-01	See annex C	N/A
C.2	Insulation	EL 2134-02	See annex C	N/A
	Protection from displacement of windings:		See annex C	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 = 02  
 Total No of applicable Tests = 00  
 No. of tests for which the sample passed = N/A

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

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Tests relating to Insulating Properties

## EL 2135 – V1.0

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	Class III equipment	N/A
D.1	Measuring instrument	EL 2135-01	See above D	N/A
D.2	Alternative measuring instrument	EL 2135-02	See above D	N/A

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

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

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

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Tests relating to Thermal Properties

**EL 2136– V1.0**

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

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

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

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

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 (Approving Authority)

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Tests relating to Electrical Safety

## EL 2137 – V1.0

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	Class III equipment	N/A

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

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

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

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Tests relating to Electrical safety

## EL 2138 – V1.0

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

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

Total No of applicable Requirement = 00

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

Total number of tests to be conducted = 17

Total No of applicable Tests = 00

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

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

.....  
(Approving Authority)

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Tests relating to Radiation Safety

## EL 2139 – V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
H	ANNEX H, IONIZING RADIATION (see 4.3.13)	EL 2139-00		N/A

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

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

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

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 (Approving Authority)




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Tests relating to Electrical Safety

## EL 2140 – V1.0

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

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

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

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

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 (Approving Authority)

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Tests relating to General Requirement

## EL 2141 – V1.0

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

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

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

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

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 (Approving Authority)




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Tests relating to General Requirement

## EL 2142 – V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
L	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)*	EL 2142-00		P
L.1	Typewriters*	EL 2142-01	See below L.7	N/A
L.2	Adding machines and cash registers*	EL 2142-02	See below L.7	N/A
L.3	Erasers*	EL 2142-03	See below L.7	N/A
L.4	Pencil sharpeners*	EL 2142-04	See below L.7	N/A
L.5	Duplicators and copy machines*	EL 2142-05	See below L.7	N/A
L.6	Motor-operated files*	EL 2142-06	See below L.7	N/A
L.7	Other business equipment*	EL 2142-07	See table 1.6.2	P

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

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

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

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 (Approving Authority)




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Tests relating to Electrical Safety

## EL 2143 – V1.0

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

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

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

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

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 (Approving Authority)

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Tests relating to Electrical safety

## EL 2144 – V1.0

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

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

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

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

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 (Approving Authority)

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Tests relating to General Requirements

## EL 2145- V1.0

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

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

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

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

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 (Approving Authority)

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Tests relating to General Requirements

## EL 2146 – V1.0

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

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

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

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

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(Approving Authority)

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Tests relating to General Requirement

## EL 2147- V1.0

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

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

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

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

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 (Approving Authority)

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Tests relating to General Requirement

## EL 2148 – V1.0

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

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

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

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

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 (Approving Authority)

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Tests relating to Protection against Ingress of water

## EL 2149 – V1.0

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

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

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

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

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 (Approving Authority)




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Tests relating to Wiring

## EL 2150 – V1.0

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

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

Total number of tests to be conducted = 17  
Total No of applicable Tests = 00  
No. of tests for which the sample passed = N/A

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

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(Approving Authority)

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Tests relating to Electrical Safety

## EL 2151 – V1.0

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	Equipment not directly connected to mains	N/A
V.1	Introduction*	EL 2151-01	See above V	N/A
V.2	TN power distribution systems	EL 2151-02	See above V	N/A
V.3	TT Power Distribution systems	EL 2151-03	See above V	N/A
V.4	IT Power Distribution systems	EL 2151-04	See above V	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 = 03  
 Total No of applicable Tests = 00  
 No. of tests for which the sample passed = N/A

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

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 (Approving Authority)

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Tests relating to Electrical Safety

## EL 2152 – V1.0

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

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

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

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

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 (Approving Authority)




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Tests relating to Electrical Safety

## EL 2153– V1.0

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		N/A
X.1	Determination of maximum input current*	EL 2153-01		N/A
X.2	Overload test procedure*	EL 2153-02		N/A

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

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

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

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 (Approving Authority)

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Tests relating to Radiation Safety

## EL 2154– V1.0

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

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

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

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

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 (Approving Authority)






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Tests relating to Electrical Safety

## EL 2155– V1.0

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	Class III 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 = 00  
 Total No of applicable Tests = 00  
 No. of tests for which the sample passed = N/A

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

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 (Approving Authority)

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Tests relating to Mechanical Properties

## EL 2156 – V1.0

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

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

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

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

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 (Approving Authority)

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Tests relating to Electrical Safety

## EL 2158 – V1.0

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

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

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

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

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 (Approving Authority)

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Tests relating to Mechanical Properties

## EL 2159 – V1.0

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

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

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

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

.....  
 (Approving Authority)




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Tests relating to Mechanical Properties

## EL 2160 – V1.0

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

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

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

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

.....  
 (Approving Authority)

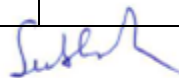
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1.5.1	TABLE: List of components				P
Object/part no.	Manufacturer/ trademark	Type/model	Technical data	Standard	Mark(s) of conformity
RTC battery (Non- Rechargeable)	SHENZHEN GAONENGDA BATTERY CO LTD	CR1220	3V, Max abnormal charging current 10mA	UL1642 (No equivalent IEC standard available)	UL MH30114
Alternate	Guangdong TIANQIU Electronics Technology Co Ltd	CR1220	3V, Max Abnormal Charging Current: 2.5mA	UL1642 (No equivalent IEC standard available)	UL MH48705
Alternate	CHANGZHOU JINTAN CHAOCHUANG BATTERY CO LTD	CR1220	3V, Max Abnormal Charging Current: 2mA	UL1642 (No equivalent IEC standard available)	UL MH10136
Internal wire	DONGGUAN ZHONGZHENG WIRE & CABLE TECH CO LTD	1007	80°C, 300Vac 24AWG	UL 758 (No equivalent IEC standard available)	UL E336285
PCB 1	Huizhou China Eagle Electronic Technology Co Ltd	CA-F121	V-0; 130°C	UL 796 (No equivalent to IEC standard)	UL E198681
Alternate	Shenzhen Xunjiexing Technology Co Ltd	JX01	V-0; 130°C	UL 796 (No equivalent to IEC standard)	UL E305654
Alternate	GuangDong Kingshine Electronic Technology Co Ltd	XY-K	V-0; 130°C	UL 796 (No equivalent to IEC standard)	UL E358874
PCB 2, PCB 3 and PCB 4	GuangDong Kingshine Electronic Technology Co Ltd	XY-K	V-0; 130°C	UL 796 (No equivalent to IEC standard)	UL E358874
Alternate	Shenzhen Xunjiexing Technology Co Ltd	JX01	V-0; 130°C	UL 796 (No equivalent to IEC standard)	UL E305654
Alternate	Huizhou China Eagle Electronic Technology Co Ltd	CA-F121	V-0; 130°C	UL 796 (No equivalent to IEC standard)	UL E198681
PCB 5	Shenzhen Xunjiexing Technology Co Ltd	JX01	V-0; 130°C	UL 796 (No equivalent to IEC standard)	UL E305654

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Alternate	Huizhou China Eagle Electronic Technology Co Ltd	CA-F121	V-0; 130°C	UL 796 (No equivalent to IEC standard)	UL E198681
Alternate	GuangDong Kingshine Electronic Technology Co Ltd	XY-K	V-0; 130°C	UL 796 (No equivalent to IEC standard)	UL E358874
Alternate of PCB 1,2,3,4,5	SUNTAK MULTILAYER PCB CO LTD	STM-5	V-0; 130°C	UL 796 (No equivalent to IEC standard)	UL E207844
Alternate of PCB 1,2,3,4,5	SUNTAK MULTILAYER PCB CO LTD	STM-1, STM-3, STM-4, STM-6, STM-7, STM-8, STM-9, GP-M2	V-0, Min. 115°C	UL 796 (No equivalent IEC standard)	UL E207844
Alternate of PCB 1,2,3,4,5	SHENZHEN BOMIN ELECTRONIC CO LTD	BM-1, BM1	V-0, 130°C	UL 796 (No equivalent IEC standard)	UL E213371
Alternate of PCB 1,2,3,4,5	SHENZHEN KINWONG ELECTRONIC CO LTD	8	V-0; 130°C	UL 796 (No equivalent to IEC standard)	UL E243951
Alternate of PCB 1,2,3,4,5	GUANGZHOU FAST-PRINT CIRCUIT TECHNOLOGY CO LTD	M1, M1-1, M11, M12, M2, ML, ML-1	V-0, 130°C	UL 796 (No equivalent IEC standard)	UL E204460
Alternate of PCB 1,2,3,4,5	GUANGDONG CHAMPION ASIA ELECTRONICS CO LTD	F-M, F-M1, F-D, F-D1	V-0, 130°C	UL 796 (No equivalent IEC standard)	UL E342828
Alternate of PCB 1,2,3,4,5	SHENZHEN XUNJIEXING TECHNOLOGY CO LTD	J17998M4, JX02	V-0, 130°C	UL 796 (No equivalent IEC standard)	UL E305654
Alternate of PCB 1,2,3,4,5	GANZHOU BEYOND SCI-TECH CO LTD	BY-003, BY-004, BY-005, PC-003, PC-004, PC-005	V-0, 130°C	UL 796 (No equivalent IEC standard)	UL E243002
Alternate of PCB 1,2,3,4,5	SHENZHEN KING BROTHER ELECTRONICS TECHNOLOGY CO LTD	KB-02, KB-04, KB-05, KB-07, KB-08	V-0, 130°C	UL 796 (No equivalent IEC standard)	UL E225430
Alternate of PCB 1,2,3,4,5	SHEN ZHEN SUN & LYNN CIRCUITS CO LTD	SL-2M, SL-4M, SL-HM, SL-M	V-0, 130°C	UL 796 (No equivalent IEC standard)	UL E234156

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Alternate of PCB 1,2,3,4,5	GULTECH (WUXI) ELECTRONICS CO LTD	17, 18, 18B, 19, 19A, 20	V-0, min. 120°C	UL 796 (No equivalent IEC standard)	UL E244417
Alternate of PCB 1,2,3,4,5	TIGERBUILDERS MICROCIRCUIT CO LTD	5K, 6, H, H1	V-0, 130°C	UL 796 (No equivalent IEC standard)	UL E327208
DC Fan	SUNONWEALTH ELECTRIC MACHINE INDUSTRY CO LTD	MC25101V2-D06C-A99	5VDC, 0.45W	UL 507 (Equivalent to applicable parts of IEC60950-1)	UL E77551

Supplementary information:

1. Evidences provided by the manufacturer for the listed components are verified by us and the evidences are conforming to the requirements of the relevant standard.
2. Metallic enclosure used.
3. **"MOBILE VIDEO RECORDER(CCTV Recorder)"** tested in Laboratory using DC Source of Laboratory. As per the declaration provided by the manufacturer, the customer will use specific power source specified by the manufacturer.



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1.6.2	TABLE: Electrical data (in normal conditions)					P
U (V)	I (A)	I rated (A)	P (W)	Fuse #	I fuse (A)	Condition/status
6	1.15	6	6.90	--	--	Supplied by DC supply.
36	0.21	6	7.56	--	--	Supplied by DC supply.
Supplementary information: Maximum normal load						

2.1.1.5	TABLE: Energy hazard measurement				P
Voltage (rated) (V)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)	
--	--	4.721 (Front USB 1)	1.248	5.891	
--	--	4.737 (Front USB 2)	1.254	5.940	
Supplementary information: Nil					

2.1.1.7	TABLE: Discharge test				N/A
Condition	$\tau$ calculated (s)	$\tau$ measured (s)	t u → 0V (s)	Comments	
--	--	--	--	--	
Supplementary information: Class III equipment.					

2.2.2	TABLE: SELV measurement (under normal conditions)			P
Transformer	Location	Voltage (max.) (V)		Voltage Limitation Component
		V peak	V d.c.	
--	--	--	--	--
Supplementary information: Powered by SELV only.				

2.2.3	TABLE: SELV measurement (under fault conditions)		P
Location	Voltage (max.) (V)	Comments	
--	--	--	
Supplementary information: Powered by SELV only.			

2.4.2	TABLE: Limited current circuit measurement					N/A
Location	Voltage (V)	Current (Ma)	Freq. (kHz)	Limit (Ma)	Comments	
--	--	--	--	--	--	
Supplementary information: No such circuit.						




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2.5	TABLE: Limited power source measurement					P
		Limits	Measured			Verdict
According to Table 2B/2G (normal condition) Front USB Port 1 voltage Uoc= 5.07V DC						
	current (in A)	≤ 8	1.248			P
	apparent power (in VA)	≤ 100	5.891			P
According to Table 2B/2G (single fault condition) Front USB Port 1 Short circuit voltage Usc = 0V						
	current (in A)	≤ 8	0			P
	apparent power (in VA)	≤ 100	0			P
According to Table 2B/2G (normal condition)Front USB Port 2 voltage Uoc= 5.10V DC						
	current (in A)	≤ 8	1.254			P
	apparent power (in VA)	≤ 100	5.940			P
According to Table 2B/2G (single fault condition)Front USB Port 2 Short circuit voltage Usc = 0V						
	current (in A)	≤ 8	0			P
	apparent power (in VA)	≤ 100	0			P
Supplementary information: Nil						

2.6.3.4	TABLE: Resistance of earthing measurement					N/A
	Location	Resistance measured (Ω)	Comments			
	--	--	--			
Supplementary information: Class III equipment.						

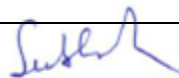
<OR>

2.6.3.4	TABLE: Resistance of earthing measurement					N/A
	Location	Voltage drop (V)	Comments			
	--	--	--			
Supplementary information: Class III equipment.						

2.10.2	Table: Working voltage measurement					N/A
	Location	RMS voltage (V)	Peak voltage (V)	Comments		
	--	--	--			
Supplementary information: Class III equipment.						

2.10.3 and 2.10.4	TABLE: Clearance and creepage distance measurements						N/A
	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)

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Functional:						
--	--	--	--	--	--	--
Basic / supplementary:						
--	--	--	--	--	--	--
Reinforced:						
--	--	--	--	--	--	--
Supplementary information: Class III equipment.						

2.10.5	TABLE: Distance through insulation measurements					N/A
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:						
--	--	--	--	--	--	
Supplementary information: Class III equipment.						

4.3.8	TABLE: Batteries					N/A			
The tests of 4.3.8 are applicable only when appropriate battery data is not available				Certified RTC battery used (See table 1.5.1)		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						--			
- Explosion of the battery						--			
- Emission of flame or expulsion of molten metal						--			
- Electric strength tests of equipment after completion of tests						--			
Supplementary information: Certified RTC battery used.									




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4.5	TABLE: Temperature rise measurements					P
<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 55°C (T<sub>ma</sub>), as specified by the manufacturer.</p>						
Test voltage(s) (V):		A: 6V DC, Powered by DC supply		B: 36V DC, Powered by DC supply		
t <sub>amb1</sub> (°C):	A: 24    B:25	t <sub>amb2</sub> (°C):		A: 24    B:25		
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)		
PCB 1	14	12	69	67	130	
PCB 2	11	07	66	62	130	
PCB 3	08	07	63	62	130	
PCB 4	06	07	61	62	130	
PCB 5	07	09	62	64	130	
Internal wire	07	06	62	61	80	
Metallic Enclosure	08	06	63	61	70	
Supplementary information: Nil						
Temperatures measured with winding resistance method: Not used						
temperature T of winding: (winding resistance method)	(V)	R <sub>1</sub> (Ω)	R <sub>2</sub> (Ω)	T (°C)	allowed T <sub>max</sub> (°C)	insulation class
--	--	--	--	--	--	--
Supplementary information: NIL						

4.5.5	TABLE: Ball pressure test of thermoplastic parts					N/A
Allowed impression diameter (mm) .....: ≤ 2 mm						—
Part	Test temperature (°C)		Impression diameter (mm)			
--	--		--			
Supplementary information: Class III equipment.						

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




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

5.1.6	TABLE: Touch current and protective conductor current measurement				N/A	
	Test voltage (V) .....	AC .....V, .....Hz			---	
Measurement location (Terminal A connected to...)	Polarity (normal) [mA]		Polarity (reverse) [mA]		Limit (mA)	Comments
	Switch: ON	Switch: OFF	Switch: ON	Switch: OFF		
Earth terminal ("e" = open)	--	--	--	--	----	--
Operating Panel ("e" = close)	--	--	--	--	----	--
Supplementary information: Class III Equipment.						

5.2	TABLE: Electric strength tests, impulse tests and voltage surge tests			N/A
Test voltage applied between:		Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No
Functional:				
--		--	--	--
Basic / supplementary:				
--		--	--	--
Reinforced:				
--		--	--	--
Supplementary information: Class III equipment.				

5.3	TABLE: Fault condition tests				P	
	Ambient temperature (°C) .....		25°C		--	
	Power source for EUT: Manufacturer, model/type, output rating .....		See table 1.5.1		--	
Component No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (A)	Observation
Input Connector	Short circuit	36V DC	2 min.	--	--	Unit shut down immediately, Result: No fire, No hazards
Diode(D21)	Short circuit	6V DC	2 min.	--	--	Unit shut down immediately, Result: No fire, No hazards
Supplementary information: Nil						




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C.2	TABLE: Insulation of transformers					N/A
	Transformer part name .....		--		--	
	Manufacturer .....		--		--	
	Type .....		--		--	
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)			--	--	--	--
Primary/input winding and core (internal)			--	--	--	--
Secondary/output winding and core (internal)			--	--	--	--
Primary/input part and secondary/output part (external)			--	--	--	--
Primary/input part and core (external)			--	--	--	--
Primary/input part and secondary/output winding (external)			--	--	--	--
Secondary/output part and core (external)			--	--	--	--
Secondary/output part and primary/input winding (external)			--	--	--	--
			--	--	--	--
Description of design:						
(a) Bobbin						
	Primary/input pins.....		--			
	Secondary/output pins.....		--			
	Material (manufacturer, type, ratings) .....		--			
	Thickness (mm).....		--			
(b) General						
Please insert here a description of the transformer design describing:						
Supplementary information: No transformer used						




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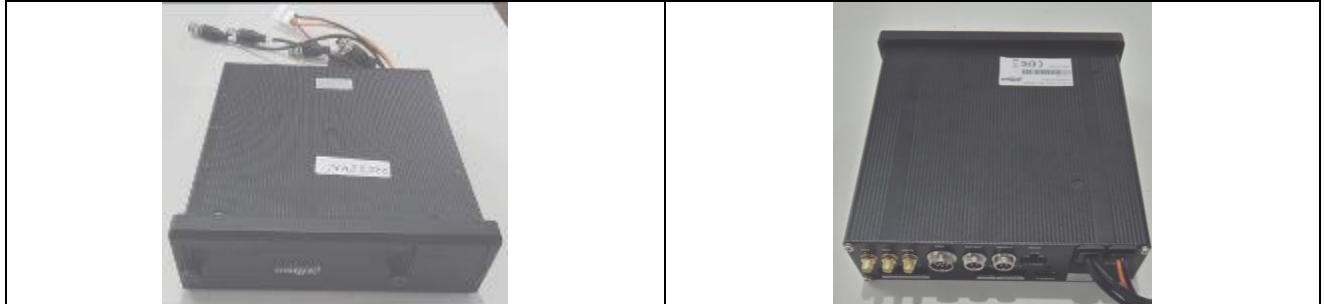
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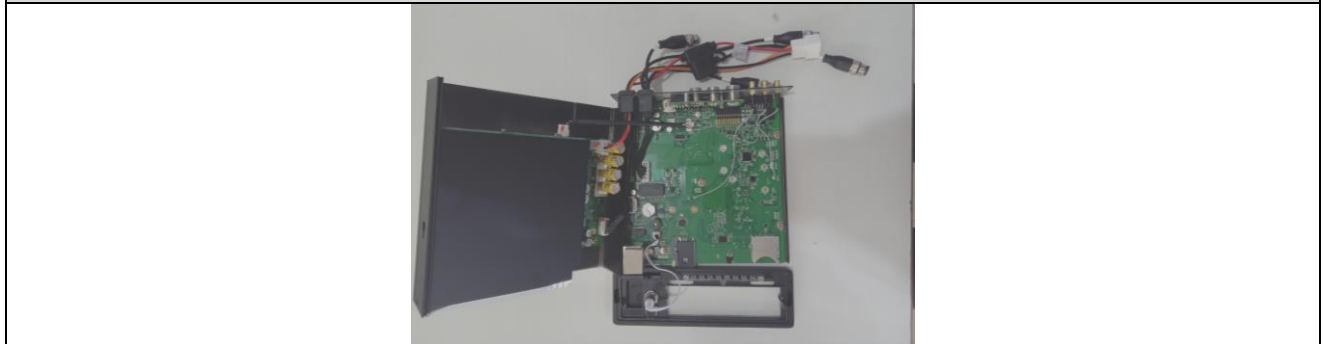
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**Attachment no.1:**

**Photo Document**



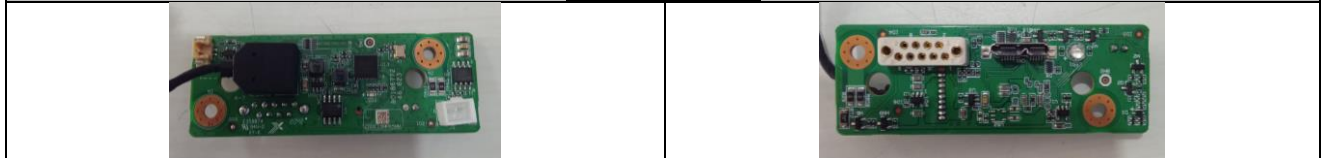
**EXTERNAL VIEWS**



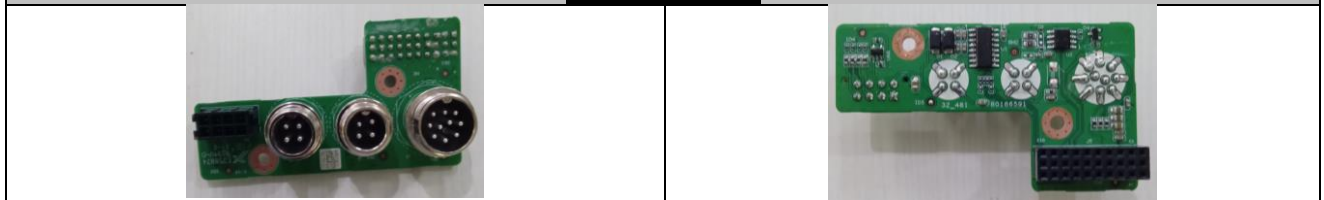
**INTERNAL VIEW**



**PCB 1 VIEWS**



**PCB 2 VIEWS**



**PCB 3 VIEWS**

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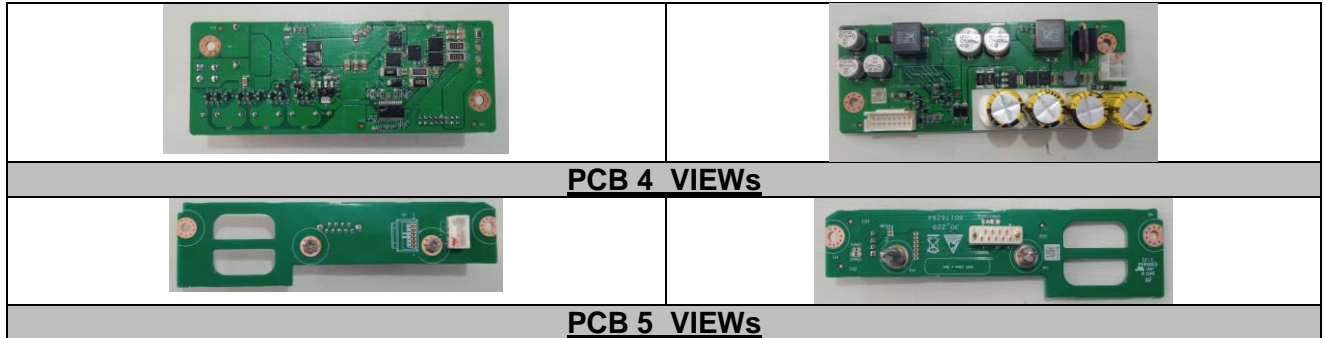
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**\*\*END OF TEST REPORT\*\***

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