



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

### SUMMARY OF TEST REPORT

TEST REPORT NO: ATCC2/18122405

DATE:09/04/2019

ULR-TC55841920000608P

(Number of Pages in Test Report: Page No. 1 to 105)

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: VIVOTEK INC.(CHUNG-HO PLANT)

2. Product: Network Video Recorder (CCTV Recorders)

3. Model: ND9424P

4. Trade Mark:



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

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

7. Test Results: Refer below

### PART A: GENERAL

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

### PART B: PROTECTION FROM HAZARDS

TEST REQUIREMENT	TEST CODE	CLAUSE	VERDICT
1. Protection from electric shock and energy hazards	EL 2103	2.1	P
2. SELV circuits	EL 2104	2.2	P
3. TNV circuits	EL 2105	2.3	N/A
4. Limited current circuits	EL 2106	2.4	P
5. Limited power source	EL 2107	2.5	P
6. Provisions for earthing and bonding	EL 2108	2.6	P
7. Overcurrent and earth fault protection in primary	EL 2109	2.7	P
8. Safety interlocks	EL-2110	2.8	N/A
9. Electrical insulation	EL-2111	2.9	P
10. Clearances: creepage distance and distances through insulation	EL 2112	2.10	P

Page 1 of 3



Signature



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

TEST REPORT NO:ATCC2/18122405

DATE:09/04/2019

ULR-TC55841920000608P

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

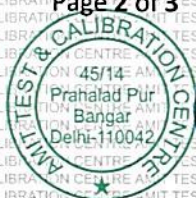
SL. NO	TEST REQUIREMENT	TEST CODE	CLAUSE	VERDICT
1.	Wiring, connections and supply	EL 2113	3.1	P
2.	Connection to a mains supply	EL 2114	3.2	P
3.	Wiring terminals for connection of external conductors	EL 2115	3.3	N/A
4.	Disconnections from the main supply	EL 2116	3.4	P
5.	Interconnection of equipment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

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

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

### PART E: CONNECTION TO 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



*[Handwritten Signature]*



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaldpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

TEST REPORT NO: **ATCC2/18122405**  
**ULR-TC55841920000608P**

DATE: **09/04/2019**

### GENERAL INFORMATION:

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

### CONCLUSION:

- Sample meets all relevant requirements of IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / IEC 60950-1: 2005 + A1: 2009 + A2 : 2013
- 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: **09/04/2019**

(Signature of Authorized person with Stamp)





# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Test Report No.: **ATCC2/18122405**

Page 1 of 105

ULR-TC55841920000608P

Issue Date: **09/04/2019**

**Manufacturer:** VIVOTEK INC.(CHUNG-HO PLANT)  
5F., 5F.-1, 5F.-2, No.168, Liancheng Rd., Zhonghe Dist., New Taipei city 235,  
Taiwan (R.O.C)

**Test item:** Network Video Recorder (CCTV Recorders)

**Identification:** ND9424P

**Serial No.:** Nil

**Receipt/job No.:** 18122405

**Date of receipt:** 24/12/2018




**Testing laboratory and its address:** Amit Test And Calibration Centre (Unit 2)  
Kh.no. 45/14,17 & 45/6 & 7 Village Prahaladpur Bangar,  
Near Kali Mata Mandir,Delhi-110042

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

**Test Result:** The test item passed / failed the test specification.

**Other Aspects:** This test report consists of 105 pages

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

<b>Tested by:</b> 	<b>Approved by / Authorized Signatory:</b> 	<b>Issued by:</b> 
<b>Testing Engineer: Manish Kumar</b>	<b>Sr. Testing Engineer: Ravinder Kumar</b>	<b>Quality Manager: Rajiv Jadon</b>
<b>Date: 09/04/2019</b>	<b>Date: 09/04/2019</b>	<b>Date: 09/04/2019</b>





# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No.: **ATCC2/18122405** IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1: 2005 + A1: 2009 + A2: 2013 Page 2 of 105  
Dated: **09/04/2019** ULR-TC55841920000608P

## 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 Cameras/CCTV Recorders”**

Report No.	ATCC2/18122405
Date of issue	09/04/2019
Total number of pages	105
Testing Laboratory	Amit Test And Calibration Centre (Unit 2)
Address	Kh.no. 45/14,17 & 45/6 & 7 Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042
Manufacturer's name	VIVOTEK INC.(CHUNG-HO PLANT)
Address	5F., 5F.-1, 5F.-2, No.168, Liancheng Rd., Zhonghe Dist., New Taipei city 235, Taiwan (R.O.C)
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	Network Video Recorder (CCTV Recorders)
Trade Mark	
Model/Type reference	ND9424P
Ratings	AC 100-240V, 6-3A, 50-60Hz
Other Documents submitted	Please refer to Table – List of Attachments at Page No.08

Tested by:	Approved by / Authorized Signatory:	Issued by:
Testing Engineer: Manish Kumar	Sr. Testing Engineer: Ravinder Kumar	Quality Manager: Rajiv Jadon
Date: 09/04/2019	Date: 09/04/2019	Date: 09/04/2019



TRF No. BIS\_CCTVC/CCTVR\_IS13252\_V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405

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

Page 3 of 105

Dated: 09/04/2019

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

ULR-TC558419200000608P

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	15	15	11-12
EL 2101	General Requirements	Power interface (Cl.1.6)	05	04	04	13
EL 2102	Marking Requirements	Marking & instructions(Cl.1.7)	39	21	21	14-16
EL 2103	Electrical safety	Protection from electric shock and energy hazards (Cl.2.1)	14	07	07	17-18
EL 2104	Electrical safety	SELV Circuits (Cl.2.2)	04	04	04	19
EL 2105	Electrical safety	TNV Circuits (Cl.2.3)	12	00	N/A	20
EL 2106	Electrical safety	Limited current circuits (Cl.2.4)	04	04	04	21
EL 2107	Electrical safety	Limited Power sources (Cl.2.5)	07	03	03	22
EL 2108	Electrical safety	Provisions for earthing and bonding (Cl.2.6)	19	14	14	23-24
EL 2109	Electrical safety	Overcurrent and earth fault protection in primary circuits (Cl.2.7)	07	06	06	25
EL 2110	Electrical safety	Safety Interlocks (Cl.2.8)	13	00	N/A	26
EL 2111	Electrical safety	Electrical Insulation (Cl.2.9)	05	05	05	27
EL 2112	Electrical safety	Clearances, Creepage distances and distances through insulation (Cl.2.10)	63	38	38	28-31
EL 2113	Wiring	Wiring, connections and supply (Cl.3)	11	06	06	32
EL 2114	Wiring	Connection to a main supply (Cl.3.2)	14	03	03	33-34
EL 2115	Wiring	Wiring terminals for connection of external conductors (Cl.3.3)	09	00	N/A	35
EL 2116	Wiring	Disconnection for the main supply (Cl.3.4)	12	04	04	36
EL 2117	Wiring	Interconnection of equipment (Cl.3.5)	05	04	04	37
EL 2118	Mechanical properties	Stability (Cl.4.1)	04	00	N/A	38



*[Signature]*

TRF No. BIS\_CCTVC/CCTVR\_IS13252-V1.0



# AMIT TEST AND CALIBRATION CENTRE

## (NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

### TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 4 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

EL 2119	Mechanical properties	Mechanical strength (Cl.4.2)	13	07	07	39
EL 2120	Mechanical properties	Design and construction (Cl.4.3)	25	04	04	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	06	06	43
EL 2123	Mechanical properties	Openings in Enclosures (Cl.4.6)	18	03	03	44-45
EL 2124	Fire Safety	Resistance to fire (Cl.4.7)	25	09	09	46-50
EL 2125	Insulating properties	Electrical requirements and simulated abnormal conditions(Cl.5),5.1	20	10	10	51-52
EL 2126	Insulating properties	Electric Strength (Cl.5.2)	03	03	03	53
EL 2127	Insulating properties	Abnormal operating and fault conditions (Cl.5.3)	11	07	07	54
EL 2128	Communicating connection	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment(Cl.6.1)	04	00	N/A	55-56
EL 2129	Communicating connection	Protection of equipment users from overvoltages on telecommunication networks (Cl.6.2)	06	00	N/A	57
EL 2130	Communicating connection	Protection of the telecommunication wiring system from overheating (Cl.6.3)	05	00	N/A	58-59
EL 2131	Connection to cable distribution systems	Connection to cable distribution systems (Cl.7)	08	00	N/A	60
EL 2132	Fire safety	Tests for resistance to heat and fire (Annex A)	20	00	N/A	61-62
EL 2133	Insulating properties	Motor tests under abnormal conditions (Annex B)	19	00	N/A	63-64
EL 2134	Electrical Safety	Transformers (Annex C)	03	03	03	65
EL 2135	Insulating properties	Measuring Instruments For Touch-Current Tests (Annex D)	03	00	N/A	66

45/14  
Prahalad Pur  
Bangar  
Delhi-110042

TRF No BIS CCTVC/CCTVR IS13252\_V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaldpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405

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

Page 5 of 105

Dated: 09/04/2019

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

ULR-TC558419200000608P

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



*Signature*



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14, 17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042

Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405      IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 /      Page 6 of 105  
 Dated: 09/04/2019      IEC 60950-1: 2005 + A1:2009 + A2 : 2013      ULR-TC55841920000608P

EL 2153	Electrical Safety	Maximum Heating Effect In Transformer Tests(Annex X)	03	03	03	87
EL 2154	Radiation safety	Ultraviolet light conditioning test (Annex Y)	05	00	N/A	88
EL 2155	Electrical Safety	Overvoltage Categories (Annex Z)	01	00	N/A	89
EL 2156	Mechanical properties	Mandrel Test(Annex AA)	01	00	N/A	90
EL 2157	Electrical Safety	Changes In The Second Edition(Annex BB)	01	00	N/A	91
EL 2158	Electrical Safety	Evaluation Of Integrated Circuit (IC) Current Limiters (Annex CC)	06	00	N/A	92
EL 2159	Mechanical properties	Requirements For The Mounting Means Of Rack-Mounted Equipment (Annex DD)	04	00	N/A	93
EL 2160	Electrical Safety	Household And Home/Office Document/Media Shredders (Annex EE)	06	00	N/A	93

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

  
 (Approving Authority)



TRF No. BIS CCTVC/CCTVR IS13252 V10

### TEST REPORT

Report No. : ATCC2/18122405

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

Page 7 of 105

Dated: 09/04/2019

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

ULR-TC55841920000608P

Copy of marking plate:

# ND9424P

## Network Video Recorder



### MAC:0002D1XXXXXX



AC 100-240V, 6-3A, 50-60Hz



### RoHS

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

[www.vivotek.com](http://www.vivotek.com)

Made in Taiwan

### MARKING PLATE OF Network Video Recorder





# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 8 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2: 2013 ULR-TC55841920000608P

### Table – List of Attachments

Attachment No.	Attachment Description	No. of pages in Attachment
Attachment no. 1	India Plug Test Report	102
Attachment – 2	Photo Document	103-105

### General remarks:

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

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

### Possible test case verdicts:

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

### Testing

Date of receipt of test item.....: 24/12/2018  
Date(s) of performance of tests.....: From 24/12/2018 to 08/04/2019

### Laboratory conditions

Ambient Temperature.....: 27±2°C  
Ambient Humidity.....: 50±5% Rh



*(Handwritten Signature)*



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaldpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405

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

Page 9 of 105

Dated: 09/04/2019

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

ULR-TC55841920000608P

### Test item particulars.....

### Network Video Recorder (CCTV Recorders)

#### Equipment mobility.....

movable  hand-held  transportable  
 stationary  for building-in  direct plug-in

#### Connection to the mains.....

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

#### Operating condition.....

continuous  
 rated operating / resting time.

#### Access location.....

operator accessible  
 restricted access location

#### Over voltage category (OVC).....

OVC I  OVC II  OVC III  OVC IV  
 other:

#### Mains supply tolerance (%) or absolute mains supply values.....

-10%, +6%

#### Class of equipment.....

Class I  Class II  Class III  
 Not classified

#### Considered current rating of protective device as a part of the building installation (A).....

16A (For India)

#### Pollution degree (PD).....

PD 1  PD 2  PD 3

#### IP protection class.....

IPXX

#### Altitude during operation (m).....

Up to 2000

#### Altitude of test laboratory (m).....

< 1000

#### Mass of equipment (kg).....

4.090Kg

### 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



*Ramesh*

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



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 10 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC558419200000608P

### General product information:

#### 1) Application details / Description of the product:

Equipment under test is Class I "Network Video Recorder (CCTV Recorders)"  
Model: "ND9424P" having Rated Input: AC 100-240V, 6-3A, 50-60Hz having certified internal  
Switching Power Supply with certified detachable power supply cord set.

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

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

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

#### 3) Options:

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



TRF No. BIS CCTVC/CCTVR IS13252\_V10



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405

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

Page 11 of 105

Dated: 09/04/2019

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

ULR-TC55841920000608P

### Tests relating to General Requirements

### EL 2100 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
1.5	Components*	EL 2100-00	Verification of approvals with due correlation between the components used and the approval certificates submitted (Please see the table 1.5.1)	P
1.5.1	General:	EL 2100-01	See below	P
	Components shall be complying with IEC 60950-1 or relevant component standard.		Component certified with relevant component standard.	P
	Components and subassemblies approved for IEC 62368-1 can be considered as complying with this standard		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 such controls used	N/A
1.5.4	Transformers	EL 2100-04	Certified power supply used	P
1.5.5	Interconnecting cables*	EL 2100-05	Suitable internal wire used	P
1.5.6	Capacitors bridging insulation *	EL 2100-06	Certified power supply used	P
1.5.7	Resistors bridging insulation	EL 2100-07	See above Cl. No. 1.5.6	P
1.5.7.1	Resistors bridging functional, basic or supplementary insulation*	EL 2100-08	See above Cl. No. 1.5.6	P
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	EL 2100-09	See above Cl. No. 1.5.6	P
1.5.7.3	Resistors bridging double insulation or reinforced insulation between the a.c. mains supply and circuits connected to an antenna or coaxial cable	EL 2100-10	No such circuit	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	Certified power supply used	P
1.5.9.1	General*	EL 2100-13	See above Cl. No. 1.5.9	P
1.5.9.2	Protection of VDRs*	EL 2100-14	See above Cl. No. 1.5.9	P
1.5.9.3	Bridging of functional insulation by a VDR*	EL 2100-15	See above Cl. No. 1.5.9	P

TRF No. BIS\_CCTVC/CCTVR\_IS13252\_V1.0



*Signature*



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaldpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405

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

Page 12 of 105.

Dated: 09/04/2019

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

ULR-TC55841920000608P

Tests relating to General Requirements

EL 2100 - V1.4

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

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

Total No of applicable Requirement = 09

No of Requirements for which the sample passed = 09

Total number of tests to be conducted = 08

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.

(Approving Authority)



TRF No. BIS CCTVC/CCTVR\_IS13252\_V1.4



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405

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

Page 13 of 105

Dated: 09/04/2019

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

ULR-TC55841920000608P

Tests relating to Electrical Safety

EL 2101 - V1.4

Sl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
1.6	Power interface*	EL 2101-00	See below	P
1.6.1	AC power distribution systems*	EL 2101-01	TN power distribution system	P
1.6.2	Input current	EL 2101-02	See table 1.6.2	P
1.6.3	Voltage limit of hand-held equipment*	EL 2101-03	Not a hand-held equipment	N/A
1.6.4	Neutral conductor *	EL 2101-04	Certified power supply used	P

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

Total No of applicable Requirement =03

No of Requirements for which the sample passed =03

Total number of tests to be conducted =01

Total No of applicable Tests =01

No. of tests for which the sample passed =01

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

(Approving Authority)



TRF No. BIS\_CCTVC/CCTVR\_IS13252\_V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)


Kh.No. 45/14,17 & 45/6 & 7, Village Prahaldpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

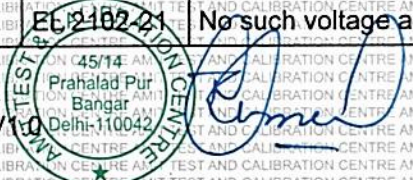
Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 14 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

### Tests relating to Marking Requirements

### EL 2102 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
1.7	Marking and instructions*	EL 2102-00		P
1.7.1	Power rating and identification markings		See below	P
1.7.1.1	Power rating marking*	EL 2102-01	See below	P
	Rated voltage(s) or voltage ranges(s) (V)*.	EL 2102-02	100-240V~	P
	Multiple mains supply connections*.	EL 2102-03	No multiple mains supply connections	N/A
	Symbol for nature of supply, for d.c. only*.	EL 2102-04	AC supply used	N/A
	Rated frequency or rated frequency range (Hz) **.	EL 2102-05	50-60Hz	P
	Rated current (mA or A)*.	EL 2102-06	6-3A	P
1.7.1.2	Identification markings*	EL 2102-07	See below	P
	Manufacturer's name or trade-mark or identification mark **.	EL 2102-08		P
	Model identification or type reference *.	EL 2102-09	ND9424P	P
	Symbol for Class II equipment only*.	EL 2102-10	Class I 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 symbols used as per IEC 60417	P
1.7.2	Safety instructions and marking*	EL 2102-13	See below	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	Appliance inlet used as disconnect device	P
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

TRF No. BIS CCTVC/CCTVR\_IS13252\_V1.0  
45/14 Prahald Pur Bangar Delhi-110042





# AMIT TEST AND CALIBRATION CENTRE

## (NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

### TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015/ Page 15 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

#### Tests relating to Marking Requirements

**EL 2102 – V1.4**

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
1.7.5	Power outlets on the equipment*	EL 2102-22	No 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	Certified power supply used (See table 1.51)	P
1.7.7	Wiring terminals	EL 2102-24	See below	P
1.7.7.1	Protective earthing and bonding terminals*	EL 2102-25	Complies	P
1.7.7.2	Terminals for a.c. mains supply conductors*	EL 2102-26	Pluggable equipment type A	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	P
1.7.8.1	Identification, location and marking*	EL 2102-29	Functions of controls affecting safety are obvious regardless of language	P
1.7.8.2	Colours*	EL 2102-30	Functions indicators colours used	P
1.7.8.3	Symbols according to IEC 60417*	EL 2102-31	⏻ STAND BY symbol marked and O for OFF and I for ON is marked on switch according to IEC 60417	P
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 such removable parts	N/A
1.7.13	Replaceable batteries*	EL 2102-37	No battery used	N/A
	Language(s)		See above	N/A
1.7.14	Equipment for restricted access locations*	EL 2102-38	Not for restricted access location	N/A



*(Signature)*



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaldpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405

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

Page 16 of 105

Dated: 09/04/2019

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

ULR-TC55841920000608P

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

Total No of applicable Requirement = 17

No of Requirements for which the sample passed = 17

Total number of tests to be conducted = 04

Total No of applicable Tests = 04

No. of tests for which the sample passed = 04

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

(Approving Authority)



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



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 17 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

Tests relating to Electrical Safety

EL 2103 - V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.1	Protection from electric shock and energy hazards*	EL 2103-00	See below	P
2.1.1	Protection in operator access areas*	EL 2103-01	Complies	P
2.1.1.1	Access to energized parts	EL 2103-02	See below	P
	Test by inspection		Complies	P
	Test with test finger (Figure 2A)		No access with the test finger to any parts with hazardous voltage	P
	Test with test pin (Figure 2B)		No access to bare hazardous parts	P
	Test with test probe (Figure 2C)		No TNV circuits	N/A
2.1.1.2	Battery compartments *	EL 2103-03	No battery compartments	N/A
2.1.1.3	Access to ELV wiring	EL 2103-04	No ELV wiring	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 internal wiring at hazardous voltage or conductive parts accessible to user	P
2.1.1.5	Energy hazards	EL 2103-06	No energy hazards (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		Certified power supply used	P
	Measured voltage (V); time-constant (s):	EL 2103-08	See above Cl. No. 2.1.1.7	P
2.1.1.8	Energy hazards – d.c. mains supply		No dc mains supply	N/A
	a) Capacitor connected to the d.c. mains supply	EL 2103-09	See above Cl. No. 2.1.1.8	N/A
	b) Internal battery connected to the d.c. mains supply	EL 2103-10	See above Cl. No. 2.1.1.8	N/A
2.1.1.9	Audio amplifiers to be tested according to IEC 60065, cl. 9.1.1.	EL 2103-11	No audio amplifiers	N/A
2.1.2	Protection in service access areas	EL 2103-12	Unintentional contact is not likely during service operation	P
2.1.3	Protection in restricted access locations	EL 2103-13	Not for restricted access location	N/A



*Romeo*



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaldpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405

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

Page 18 of 105

Dated: 09/04/2019

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

ULR-TC55841920000608P

\*- 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 = 05

No. of tests for which the sample passed = 05

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

  
(Approving Authority)



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



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaldpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS-13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 19 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2: 2013 ULR-TC55841920000608P

### Tests relating to Electrical Safety

### EL 2104 - V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.2	SELV circuits*	EL 2104-00	Certified power supply used	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	See above Cl. No. 2.2	P

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

Total No of applicable Requirement = 02

No of Requirements for which the sample passed = 02

Total number of tests to be conducted = 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.

  
(Approving Authority)



TRF No. BIS - CCTVC/CCTVR - IS13252 - V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405

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

Page 20 of 105

Dated: 09/04/2019

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

ULR-TC558419200000608P

### Tests relating to Electrical Safety

### EL 2105 - V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.3	TNV circuits*	EL 2105-00	No TNV 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)



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



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaldpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 21 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2: 2013 ULR-TC55841920000608P

Tests relating to Electrical Safety

EL 2106 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.4	Limited current circuits *	EL 2106-00	Certified power supply used	P
2.4.1	General requirements *	EL 2106-01	See above Cl. No. 2.4	P
2.4.2	Limit values	EL 2106-02	See above Cl. No. 2.4	P
2.4.3	Connection of limited current circuits to other circuits*	EL 2106-03	See above Cl. No. 2.4	P

\*- Total number of Requirements to be observed / inspected = 03  
Total No of applicable Requirement = 03  
No of Requirements for which the sample passed = 03  
Total number of tests to be conducted = 01  
Total No of applicable Tests = 01  
No. of tests for which the sample passed = 01

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

  
(Approving Authority)



TRF No. BIS - CCTVC/CCTVR - IS13252 - V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042

Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405

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

Page 22 of 105

Dated: 09/04/2019

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

ULR-TC55841920000608P

Tests relating to Electrical Safety

EL 2107 - V1.4

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

\* Total number of Requirements to be observed / inspected = 01  
 Total No of applicable Requirement = 01  
 No of Requirements for which the sample passed = 01  
 Total number of tests to be conducted = 06  
 Total No of applicable Tests = 02  
 No. of tests for which the sample passed = 02

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

(Approving Authority)



TRF No. BIS\_CCTVC/CCTVR\_IS13252\_V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 23 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

Tests relating to Electrical Safety

EL 2108 - V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.6	Provisions for earthing and bonding*	EL 2108-00	See below	P
2.6.1	Protective earthing	EL 2108-01	The relevant parts connected to the main protective earthing terminal reliably	P
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	Protective earthing provided	N/A
	Use of symbol for functional earthing:*	EL 2108-03		N/A
2.6.3	Protective earthing and protective bonding conductors*	EL 2108-04	See below	P
2.6.3.2	Size of protective earthing conductors	EL 2108-05	Certified power supply cord set used (See table 1.5.1)	P
	Rated current (A), cross-sectional area (mm <sup>2</sup> ),		See above Cl. No.2.6.3.2	P
2.6.3.3	Size of protective bonding conductors	EL 2108-06	Complies with Cl. No. 2.6.3.4	P
	Protective current Rating (A), cross-sectional area (mm <sup>2</sup> )		See above Cl. No.2.6.3.3	P
2.6.3.4	Resistance of earthing conductors and their terminations; resistance (Ω), voltage drop (V), test current (A), duration (min):	EL 2108-07	Resistance not exceed 0.1Ω Test time: 2 minutes (See table 2.6.3.4)	P
2.6.3.5	Colour of insulation*:	EL 2108-08	Certified power supply cord set used	P
2.6.4	Terminals		See below	N/A
2.6.4.2	Protective earthing and bonding terminals : Rated current(A), Type, Nominal thread diameter (mm)	EL 2108-09	Appliance inlet used	N/A
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors.	EL 2108-10	Appliance inlet used	N/A
2.6.5	Integrity of protective earthing*:		See below	P
2.6.5.1	Interconnection of equipment*:	EL 2108-11	The equipment has its own earthing connection	N/A

45/14  
Prahald Pur  
Bangar  
Delhi-110042

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



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042

Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405      IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 /      Page 24 of 105  
 Dated: 09/04/2019      IEC 60950-1: 2005 + A1:2009 + A2 : 2013      ULR-TC55841920000608P

2.6.5.2	Components in protective earthing conductors and protective bonding conductors*	EL 2108-12	No fuse and switch in earthing conductors and protective bonding conductors	P
2.6.5.3	Disconnection of protective earth	EL 2108-13	It is not possible to disconnect protective earth without disconnecting mains; an appliance inlet is used as disconnect device	P
2.6.5.4	Parts that can be removed by an operator*	EL 2108-14	Protective earthing connection is established before mains supply and breaks after the mains supply	P
2.6.5.5	Parts removed during servicing*	EL 2108-15	The relevant hazard is removed at the same time the protective earthing connection is removed for servicing	P
2.6.5.6	Corrosion resistance*	EL 2108-16	Comply with Annex J	P
2.6.5.7	Screws for protective bonding*	EL 2108-17	No self-tapping or spaced thread screws	N/A
2.6.5.8	Reliance on telecommunication network or cable distribution system*	EL 2108-18	No telecommunication network or cable distribution system.	N/A

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

Total No of applicable Requirement = 08

No of Requirements for which the sample passed = 08

Total number of tests to be conducted = 05

Total No of applicable Tests = 04

No of tests for which the sample passed = 04

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

  
 (Approving Authority)



TRF No. BIS\_CCTVC/CCTVR\_IS13252\_V10



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 25 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

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

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.7	Overcurrent and earth fault protection in primary circuits*	EL 2109-00	See below	P
2.7.1	Basic requirements: Protection in primary circuits against 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	Certified power supply used	P
	If pluggable equipment Type B or permanently connected equipment relies on protective device external to the equipment for protection, the equipment installation Instructions shall so state and shall also specify the requirements for short-circuit protection or overcurrent protection or, where necessary, for both.		Pluggable equipment type A	N/A
2.7.2	Faults not simulated in 5.3.7* need not be fitted as an integral part of the equipment	EL 2109-02	Certified power supply used	P
2.7.3	Short-circuit backup protection	EL 2109-03	See above Cl. No. 2.7.2	P
2.7.4	Number and location of protective devices	EL 2109-04	See above Cl. No. 2.7.2	P
2.7.5	Protection by several devices*	EL 2109-05	See above Cl. No. 2.7.2	P
2.7.6	Warning to service personnel*	EL 2109-06	No warning to service personnel required	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 = 03  
Total No of applicable Tests = 03  
No. of tests for which the sample passed = 03

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

(Approving Authority)



TRF No. BIS\_CCTVC/CCTVR\_IS13252\_V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 26 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

Tests relating to Electrical Safety

EL 2110 – V1.4

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

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

Total No of applicable Requirement = 00


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

Total number of tests to be conducted = 10

Total No of applicable Tests = 00

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

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

  
(Approving Authority)



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



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042

Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405

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

Page 27 of 105

Dated: 09/04/2019

ULR-TC55841920000608P

Tests relating to Electrical Safety

EL 2111 - V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.9	Electrical insulation*	EL 2111-00	See below	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	See below	P
	Relative Humidity : 93 ±3 %		Relative humidity: 93%	P
	Temperature: t at 40 ± 2°C		Temperature: 40°C	P
	Duration : 120 hours		Tested for 120 hours	P
2.9.3	Grade of insulation*	EL 2111-03	Certified power supply used Other: functional insulation used	P
2.9.4	Separation from hazardous voltages*	EL 2111-04	Certified power supply used	P
	Method(s) used		See above cl. no 2.9.4	P

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

Total No of applicable Requirement = 04

No of Requirements for which the sample passed = 04

Total number of tests to be conducted = 01

Total No of applicable Tests = 01

No. of tests for which the sample passed = 01

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

(Approving Authority)



TRF No. BIS\_CCTVC/CCTVR\_IS13252\_V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 28 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

### Tests relating to Electrical Safety

### EL 2112 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
2.10	Clearances, creepage distances and distances through Insulation*	EL 2112-00	See below	P
2.10.1.1	Frequency *	EL 2112-01	50-60Hz	P
2.10.1.2	Pollution degrees*	EL 2112-02	Pollution degree 2	P
2.10.1.3	Reduced values for functional insulation	EL 2112-03	Functional insulation complies with the requirements of Cl. No. 5.3.4c)	P
2.10.1.4	Intervening unconnected conductive parts	EL 2112-04	Certified power supply used	P
2.10.1.5	Insulation with varying dimensions	EL 2112-05	See above Cl. No. 2.10.1.4	P
2.10.1.6	Special separation requirements	EL 2112-06	See above Cl. No. 2.10.1.4	P
2.10.1.7	Insulation in circuits generating starting pulses	EL 2112-07	No such circuits	N/A
2.10.2	Determination of working voltage	EL 2112-08	Certified power supply used	P
2.10.2.2	RMS working voltage	EL 2112-09	See above Cl. No. 2.10.2	P
2.10.2.3	Peak working voltage	EL 2112-10	See above Cl. No. 2.10.2	P
2.10.3	Clearances	EL 2112-11	See above Cl. No. 2.10.2	P
2.10.3.1	General	EL 2112-12	Certified power supply used	P
2.10.3.2	Mains transient voltages*		See below	P
	a) AC mains supply* :	EL 2112-13	Certified power supply used	P
	b) Earthed d.c. mains supplies* :	EL 2112-14	No dc mains supply	N/A
	c) Unearthed d.c. mains supplies* :	EL 2112-15	No dc mains supply	N/A
	d) Battery operation* :	EL 2112-16	No such battery used	N/A
2.10.3.3	Clearances in primary circuits	EL 2112-17	Certified power supply used	P
2.10.3.4	Clearances in secondary circuits	EL 2112-18	See above Cl. No. 2.10.3.3	P
2.10.3.5	Clearances in circuits having starting pulses	EL 2112-19	Certified power supply used	P
2.10.3.6	Transients from a.c. mains supply :	EL 2112-20	Certified power supply used	P
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

TRF No. BIS CCTVC/CCTVR IS13252\_V1.0

45/14  
Prahalad Pur  
Bangar  
Delhi-110042

AMIT TEST AND CALIBRATION CENTRE



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042

Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atcc.in

## TEST REPORT

Report No. : ATCC2/18122405

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

Page 29 of 105

Dated: 09/04/2019

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

ULR-TC55841920000608P

	For an a.c. mains supply	See below	N/A
	For a d.c. mains supply	No dc mains supply	N/A
	b) Transients from a telecommunication network	EL 2112-24	No telecommunication network
2.10.4	Creepage distances*	EL 2112-25	Certified power supply used
2.10.4.1	General	EL 2112-26	Certified power supply used
2.10.4.2	Material group and comparative tracking index : CTI tests*	EL 2112-27	Material group III b assumed
2.10.4.3	Minimum creepage distances	EL 2112-28	Certified power supply used
2.10.5	Solid insulation	EL 2112-29	Certified power supply used
2.10.5.1	General	EL 2112-30	Certified power supply used
2.10.5.2	Distances through insulation	EL 2112-31	See above Cl. No. 2.10.5
2.10.5.3	Insulating compound as solid insulation	EL 2112-32	See above Cl. No. 2.10.5
2.10.5.4	Semiconductor devices	EL 2112-33	N/A
2.10.5.5	Cemented joints	EL 2112-34	See above Cl. No. 2.10.5
2.10.5.6	Thin sheet material – General	EL 2112-35	See above Cl. No. 2.10.5
2.10.5.7	Separable thin sheet material	EL 2112-36	See above Cl. No. 2.10.5
2.10.5.8	Non-separable thin sheet material	EL 2112-37	See above Cl. No. 2.10.5
2.10.5.9	Thin sheet material – standard test procedure	EL 2112-38	See above Cl. No. 2.10.5
	Electric strength test as per Cl.5.2.2		See above Cl. No. 2.10.5
2.10.5.10	Thin sheet material – alternative test procedure	EL 2112-39	Certified power supply used
	Electric strength test as per Cl.5.2.2		See above Cl. No. 2.10.5.10
2.10.5.11	Insulation in wound components	EL 2112-40	Certified power supply used
2.10.5.12	Wire in wound components		Certified power supply used
	If Peak Working voltage > 71 V		See above Cl. No. 2.10.5.12
	a) Basic insulation not under stress	EL 2112-41	See above Cl. No. 2.10.5.12
	b) Basic, supplementary, reinforced insulation	EL 2112-42	See above Cl. No. 2.10.5.12
	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	See above Cl. No. 2.10.5.12
2.10.5.13	Wire with solvent-based enamel in wound components		No such construction

TRF No. BIS CCTVCCTVR IS13252 V1.0



45/14  
Prahalad Pur  
Bangar  
Delhi-110042

*[Signature]*



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405

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

Page 30 of 105

Dated: 09/04/2019

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

ULR-TC55841920000608P

	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	CENTRE AMIT TEST AN	Certified power supply used	P
	If Peak Working Voltage >71V	CENTRE AMIT TEST AN	See above Cl. No. 2.10.5.14	P
	a) Basic insulation not under stress	EL 2112-47	See above Cl. No. 2.10.5.14	P
	b) Supplementary, reinforced insulation	EL 2112-48	See above Cl. No. 2.10.5.14	P
2.10.6	Construction of printed boards*	CENTRE AMIT TEST AN	Certified power supply used	P
2.10.6.1	Uncoated printed boards	EL 2112-49	See above Cl. No. 2.10.6	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*	CENTRE AMIT TEST AN	See above Cl. No. 2.10.6.3	N/A
	a) Minimum Thickness of insulation: 0.4mm or	EL 2112-52	See above Cl. No. 2.10.6.3	N/A
	b) Confirm with one of the specification and pass the relevant tests as per Table 2R	EL 2112-53	See above Cl. No. 2.10.6.3	N/A
2.10.7	Component external terminations	EL 2112-54	No such external terminations	N/A
2.10.8	Tests on coated printed boards and coated components	CENTRE AMIT TEST AN	Uncoated printed boards 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	Certified power supply used	P
2.10.10	Test for Pollution Degree 1 environment and insulating compound	EL 2112-60	Pollution degree 2	N/A
2.10.11	Tests for semiconductor devices and cemented joints	EL 2112-61	CALIBRATION CENTRE AMIT TEST AND CALIBRATION CENTRE	N/A
2.10.12	Enclosed and sealed parts	EL 2112-62	No enclosed and sealed parts	N/A

TRF No. BIS CCTVC/CCTVR\_IS13252\_V110



*Signature*



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405      IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 /      Page 31 of 105  
Dated: 09/04/2019      IEC 60950-1: 2005 + A1:2009 + A2 : 2013      ULR-TC558419200000608P

- \* Total number of Requirements to be observed / inspected = 10
- Total No of applicable Requirement = 06
- No of Requirements for which the sample passed = 06
- Total number of tests to be conducted = 53
- Total No of applicable Tests = 32
- No. of tests for which the sample passed = 32

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



(Approving Authority)



TRF No. BIS - CCTVC/CCTVR-IS13252-V1.00



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaldpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 32 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

Tests relating to Wiring

EL 2113 - V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
3.0	Wiring, connections and supply*	EL 2113-00	See below	P
3.1.1	Current rating and overcurrent protection	EL 2113-01	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	Certified power supply used	P
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	Certified power supply used	P
3.1.10	Sleeving on wiring*	EL 2113-10	No sleeving used	N/A

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

Total No of applicable Requirement = 03

No of Requirements for which the sample passed = 03

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.

  
(Approving Authority)



TRF No. BIS CCTVC/CCTVR IS13252-V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042

Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405

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

Page 33 of 105

Dated: 09/04/2019

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

ULR-TC558419200000608P

### Tests relating to Wiring

### EL 2114 - V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
3.2	Connection to a mains supply*	EL 2114-00	See below	P
3.2.1	Means of connection		See below	P
3.2.1.1	Connection to an a.c. mains supply*	EL 2114-01	Connection to AC mains with Power Plug	P
	As per IS 13252 (Part 1): 2010 Cl. No. 3.2.1.1, Note: It is a legal requirement to provide a plug that complies with the national wiring rules.		Power plug conforming to the requirements of dimensions for 10A plug as per IS 1293:2005 (See attachment No. 1)	P
3.2.1.2	Connection to a d.c. mains supply*	EL 2114-02	No DC mains supply	N/A
3.2.2	Multiple supply connections	EL 2114-03	Multiple supply connections not used	N/A
3.2.3	Permanently connected equipment	EL 2114-04	Not a permanently connected equipment	N/A
3.2.4	Appliance inlets: Are so Located that parts at hazardous voltage are not accessible during insertion or removal of the connector, connector can be inserted without difficulty and after insertion of the connector, the equipment is not supported by the connector for any position of normal use on a flat surface (Appliance inlets complying with IEC 60309 or IEC 60320 considered to comply with this requirement.)	EL 2114-05	Appliance inlet is part of certified power supply	N/A
3.2.5	Power supply cords		See below	P
3.2.5.1	AC power supply cords*	EL 2114-06	Certified power supply cord set used (See table 1.5.1)	P
	Rated current (A), cross-sectional area (mm <sup>2</sup> ), AWG		See above Cl. No. 3.2.5.1	P
3.2.5.2	DC power supply cords*	EL 2114-07	No DC mains supply	N/A
3.2.6	Cord anchorages and strain relief		Appliance inlet provided	N/A
	Mass of the equipment: Pull Force (N):	EL 2114-08	See above Cl. No. 3.2.6	N/A

TRF No. BIS\_CCTVC/CCTVR\_IS13252\_V1.0

45/14  
Prahalad Pur  
Bangar  
Delhi-110042

AMIT TEST & CALIBRATION CENTRE



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaldpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 34 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2: 2013 ULR-TC55841920000608P

	b) Longitudinal displacement: 2 mm (Max)	EL 2114-09	See above Cl. No. 3.2.6	N/A
3.2.7	Protection against mechanical damage	EL 2114-10	Appliance inlet provided	N/A
3.2.8	Cord guards		Detachable power supply cord set used	N/A
	a) Diameter or minor dimension D (mm) Test mass (g) :	EL 2114-11	See above Cl. No. 3.2.8	N/A
	b) Radius of curvature of cord : 1.5 D (Min)	EL 2114-12	See above Cl. No. 3.2.8	N/A
3.2.9	Supply wiring space	EL 2114-13	See above Cl. No. 3.2.8	N/A

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

Total No of applicable Requirement = 03

No of Requirements for which the sample passed = 03

Total number of tests to be conducted = 09

Total No of applicable Tests = 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)



TRF No. BIS CCTVC/CCTVR\_IS13252\_V110



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 35 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC558419200000608P

Tests relating to Wiring

EL 2115 - V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
3.3	Wiring terminals for connection of external conductors*	EL 2115-00	No wiring terminals 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.

(Approving Authority)



TRF No. BIS CCTVC/CCTVR IS13252 V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405

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

Page 36 of 105

Dated: 09/04/2019

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

ULR-TC558419200000608P

Tests relating to Wiring

EL 2116 - V1.4

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

\*- Total number of Requirements to be observed / inspected = 12

Total No of applicable Requirement = 05

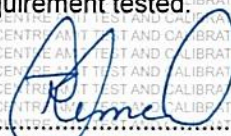
No of Requirements for which the sample passed = 05

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.

  
(Approving Authority)



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



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 37 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

Tests relating to Wiring

EL 2117 - V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
3.5	Interconnection of equipment*	EL 2117-00		P
3.5.1	General requirements*	EL 2117-01	See below	P
3.5.2	Types of interconnection circuits*	EL 2117-02	SELV to SELV connections only	P
3.5.3	ELV circuits as interconnection circuits *	EL 2117-03	No such ELV Circuit	NA
3.5.4	Data ports for additional equipment	EL 2117-04	Complies with Cl. No. 2.5	P

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

Total No of applicable Requirement = 03


No of Requirements for which the sample passed = 03

Total number of tests to be conducted = 01

Total No of applicable Tests = 01

No. of tests for which the sample passed = 01

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

  
(Approving Authority)



TRF No. BIS\_CCTVC/CCTVR\_IS13252\_V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaldpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 38 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2: 2013 ULR-TC55841920000608P

### Tests relating to Mechanical Properties

### EL 2118 – V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
4	<b>PHYSICAL REQUIREMENTS*</b>	EL 2118-00		<b>P</b>
4.1	<b>Stability</b>	EL 2118-01	Mass of equipment is 4.090Kg	N/A
	a) A unit having a mass of 7 kg or more shall not fall over when tilted to an angle of 10° from its normal upright position. Alternatively, the unit is placed in its intended position of use on a plane, inclined at an angle of 10° to the horizontal, and then rotated slowly through an angle of 360° about its normal vertical axis.	EL 2118-02	Mass < 7 kg	N/A
	b) A floor-standing unit having a mass of 25 kg or more shall not fall over when a force equal to 20 % of the weight of the unit, but not more than 250 N, is applied in any direction except upwards, at a height not exceeding 2 m from the floor.	EL 2118-03	Not a floor standing equipment	N/A
	c) A floor-standing unit shall not fall over when a constant downward force of 800 N is applied at the point of maximum moment to any horizontal surface of at least 125 mm by at least 200 mm, at a height up to 1 m from the floor.	EL 2118-04	Not a floor standing equipment	N/A

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

Total No of applicable Requirement = 01

No of Requirements for which the sample passed = 01

Total number of tests to be conducted = 04

Total No of applicable Tests = 00

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

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

(Approving Authority)



TRF No. BIS CCTVC/CCTVR IS13252-V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaldpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 39 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2: 2013 ULR-TC55841920000608P

### Tests relating to Mechanical Properties

### EL 2119 - V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
4.2	Mechanical Strength	EL 2119-00		P
4.2.1	General	EL 2119-01	See below	P
4.2.2	Steady force test, 10 N	EL 2119-02	Force applied on components 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 rear 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	Impact applied on top of enclosure Result: No damage, No hazard	P
	b) Swing test as per Fig. 4A	EL 2119-07	Impact applied on all vertical sides of enclosure Result: No damage, No hazard	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	Not a wall or ceiling mounted 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 = 07

No. of tests for which the sample passed = 07

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

(Approving Authority)



TRF No BIS CCTVC/CCTVR IS13252 V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaldpur Bangar, Near Kali Mata Mandir, Delhi-110042

Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 40 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC558419200000608P

### Tests relating to Mechanical Properties

### EL 2120 - V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
4.3	Design and Construction*	EL 2120-00	See below	P
4.3.1	Edges and corners*	EL 2120-01	All edges or corners accessible to operators are rounded and smoothed	P
4.3.2	Handles and manual controls force (N)	EL 2120-02	No such parts	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 misconnection likely to create hazard	P
4.3.6	Direct plug-in equipment	EL 2120-06	Not a direct plug-in equipment	N/A
	Torque	EL 2120-07	See above 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		Certified 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





# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405      IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 /      Page 41 of 105  
Dated: 09/04/2019      IEC 60950-1: 2005 + A1:2009 + A2 : 2013      ULR-TC55841920000608P

4.3.11	Containers for liquids or gases	EL 2120-17	Equipment does not contain liquid or gases	N/A
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 as indicators	N/A
4.3.13.6	Other types*	EL 2120-24	No other type radiations	N/A

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

Total No of applicable Requirement = 03

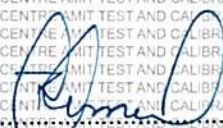
No of Requirements for which the sample passed = 03

Total number of tests to be conducted = 19

Total No of applicable Tests = 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)



TRF No BIS CCTVC/CCTVR-IS13252-VI0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 42 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

Tests relating to Mechanical Properties

EL 2121 – V1.4

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

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

Total No of applicable Requirement = 00

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

Total number of tests to be conducted = 07

Total No of applicable Tests = 00

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

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

(Approving Authority)



TRF No. BIS\_CCTVC/CCTVR\_IS13252\_V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaldpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 43 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2: 2013 ULR-TC55841920000608P

### Tests relating to Thermal Properties

### EL 2122 - V1.4

Cl. No	Test / Requirement name	Test Code	Test result/ observation	Verdict
4.5	Thermal Requirements*	EL 2122-00	See below	P
4.5.1	General	EL 2122-01	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	Certified power supply used	P

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

Total No of applicable Requirement = 03


No of Requirements for which the sample passed = 03

Total number of tests to be conducted = 03

Total No of applicable Tests = 03

No. of tests for which the sample passed = 03

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

  
(Approving Authority)



TRF No. BIS CCTVC/CCTVR IS13252 V1.4



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 44 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC558419200000608P

### Tests relating to Mechanical Properties

### EL 2123 - V1.4

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



TRF No. BIS\_CCTVC/CCTVR\_IS13252\_V1



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaldpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 45 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2: 2013 ULR-TC55841920000608P

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 = 01

No of Requirements for which the sample passed = 01

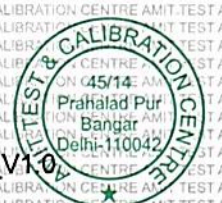
Total number of tests to be conducted = 16

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)



TRF No. BIS CCTVC/CCTVR IS13252 V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 46 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

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

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



*[Signature]*



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042

Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 47 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2: 2013 ULR-TC558419200000608P

<p>a) For MOVABLE EQUIPMENT having a total mass not exceeding 18 kg, the material of a FIRE ENCLOSURE, in the thinnest significant wall thickness used, shall be of V-1 CLASS MATERIAL or shall pass the test of Clause A.2.</p>	<p>EL 2124-10</p>	<p>See above Cl. No. 4.7.3.2</p>	<p>N/A</p>
<p>b) For MOVABLE EQUIPMENT having a total mass exceeding 18 kg and for all STATIONARY EQUIPMENT, the material of a FIRE ENCLOSURE, in the thinnest significant wall thickness used, shall be of 5VB CLASS MATERIAL or shall pass the test of Clause A.1.</p>	<p>EL 2124-11</p>	<p>No such equipment</p>	<p>N/A</p>
<p>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</p>	<p>EL 2124-12</p>	<p>No such openings</p>	<p>N/A</p>
<p>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.</p>	<p>EL 2124-13</p>	<p>No such arcing parts</p>	<p>N/A</p>
<p>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.</p>	<p>EL 2124-14</p>	<p>No such construction</p>	<p>N/A</p>



*[Handwritten Signature]*

TRF No. BIS CCTVC/CCTVR IS13252\_V1

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 48 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

4.7.3.3	Materials for components and other parts outside fire enclosures *		No components and other parts outside fire enclosure	N/A
a)	Materials shall be of - HB75 CLASS MATERIAL if the thinnest significant thickness of this material is < 3 mm or - HB40 CLASS MATERIAL if the thinnest significant thickness of this material is ≥ 3 mm, or - HBF CLASS FOAMED MATERIAL.*	EL 2124-15	See above Cl. No. 4.7.3.3	N/A
b)	Connectors shall comply with one of the following: - be made of V-2 CLASS MATERIAL; or - pass the tests of Clause A.2; or - comply with the flammability requirements of the relevant IEC component standard; or - be mounted on V-1 CLASS MATERIAL and be of a small size; or - be located in a SECONDARY CIRCUIT supplied by a power source that is limited to a maximum of 15 VA (see 1.4.11) under normal operating conditions and after a single fault in the equipment (see 1.4.14).	EL 2124-16	See above Cl. No. 4.7.3.3	N/A
4.7.3.4	Materials for components and other parts inside fire enclosures		Certified material used (see table 1.5.1)	P






# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 49 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

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	Certified power supply used	P
4.7.3.5 Materials for air filter assemblies Air filter assemblies shall be constructed of V-2 CLASS MATERIAL, or HF-2 CLASS FOAMED MATERIAL.	EL 2124-19	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
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 Clause 8 - Conditioning	EL 2124-22	See above Cl. No. 4.7.3.6	N/A
TRF No. BIS_CCTVC/CCTVR_IS13252_V1.0	EL 2124-23	See above Cl. No. 4.7.3.6	N/A



*[Handwritten Signature]*



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14, 17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042

Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 50 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000068P

Clause 11 - Evaluation of test results	EL 2124-24	See above Cl. No. 4.7.3.6	N/A
--	------------	---------------------------	-----

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

Total No of applicable Requirement = 06

No of Requirements for which the sample passed = 06

Total number of tests to be conducted = 18

Total No of applicable Tests = 03

No. of tests for which the sample passed = 03

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

(Approving Authority)

TRF No. BIS CCTVC/CCTVR-IS13252-V1





# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaldpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 51 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC558419200000608P

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

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



*[Signature]*



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042

Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 52 of 105  
 Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

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

Total number of Requirements to be observed / inspected = 05

Total No of applicable Requirement = 04

No of Requirements for which the sample passed = 04

Total number of tests to be conducted = 15

Total No of applicable Tests = 06

No. of tests for which the sample passed = 06

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

  
 (Approving Authority)



TRF No. BIS\_CCTVC/CCTVR\_IS13252\_V1



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaldpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 53 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

### Tests relating to Insulating Properties

### EL 2126 - V1.4

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

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

Total No of applicable Requirement = 02

No of Requirements for which the sample passed = 02

Total number of tests to be conducted = 01

Total No of applicable Tests = 01

No. of tests for which the sample passed = 01

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

(Approving Authority)



TRF No. BIS CCTVC/CCTVR\_IS13252\_V1.4



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 54 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC558419200000608P

### Tests relating to Insulating Properties EL 2127 - V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
5.3	Abnormal operating and fault conditions	EL 2127-00	See below	P
5.3.1	Protection against overload and abnormal operation	EL 2127-01	See table 5.3	P
5.3.2	Motors	EL 2127-02	No motor used	N/A
5.3.3	Transformers	EL 2127-03	Certified power supply used	P
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 such components	N/A
5.3.6	Audio amplifiers in ITE	EL 2127-06	No audio amplifiers used	N/A
5.3.7	Simulation of faults	EL 2127-07	See table 5.3	P
5.3.8	Unattended equipment	EL 2127-08	No 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 metal emitted and no distortion of enclosure	P
5.3.9.2	After the tests	EL 2127-10	No breakdown occurred	P

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

Total No of applicable Requirement = 00

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

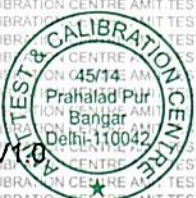
Total number of tests to be conducted = 11

Total No of applicable Tests = 07

No. of tests for which the sample passed = 07

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

(Approving Authority)



TRF No BIS\_CCTVC/CCTVR\_IS13252\_V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 55 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

Tests relating to Communicating Connection

EL 2128 - V1.4

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



*(Signature)*



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042

Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No.: ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 56 of 105  
 Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2: 2013 ULR-TC558419200000608P

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/failing in the requirement tested.

  
 (Approving Authority)



TRF No. BIS CCTVC/CCTVR IS13252-V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 57 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

Tests relating to Communicating Connection

EL 2129 - V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
6.2	Protection of equipment users from over voltages on telecommunication networks*	EL 2129-00	Equipment is not for connection to telecommunication network	N/A
6.2.1	Separation requirements	EL 2129-01	See above Cl. No. 6.2	N/A
6.2.2	Electric strength test procedure	EL 2129-02	See above Cl. No. 6.2	N/A
6.2.2.1	Impulse test	EL 2129-03	See above Cl. No. 6.2	N/A
6.2.2.2	Steady-state test	EL 2129-04	See above Cl. No. 6.2	N/A
6.2.2.3	Compliance criteria	EL 2129-05	See above Cl. No. 6.2	N/A

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

Total No of applicable Requirement = 00

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

Total number of tests to be conducted = 05

Total No of applicable Tests = 00

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

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

  
(Approving Authority)



TRF No. BIS CCTVC/CCTVR IS13252-V1



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

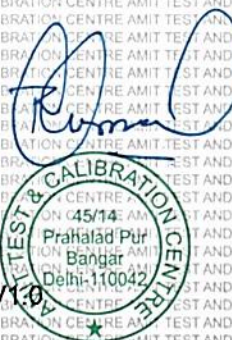
## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 58 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2: 2013 ULR-TC55841920000608P

### Tests relating to Communicating Connection

### EL 2130 - V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
6.3	Protection of the telecommunication wiring system from overheating	EL 2130-00	Equipment is not for connection to telecommunication network	N/A
	a) If current limiting is due to the inherent impedance of the power source, the output current into any resistive load, including a short-circuit, is measured. The current limit shall not be exceeded after 60 s of test. Max. output current (A)	EL 2130-01	See above Cl. No. 6.3	N/A
	b) If current limiting is provided by an overcurrent protective device having a specified time/current characteristic: - the time/current characteristic shall show that a current equal to 110 % of the current limit will be interrupted within 60 min; and	EL 2130-02	See above Cl. No. 6.3	N/A
	c) the output current into any resistive load, including a short-circuit, with the overcurrent protective device bypassed, measured after 60 s of test, shall not exceed $1.000/U$ , where U is the output voltage measured in accordance with 1.4.5 with all load circuits disconnected.	EL 2130-03	See above Cl. No. 6.3	N/A



TRF No. BIS CCTVC/CCTVR-IS13252-V1.4



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042

Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 59 of 105  
 Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2: 2013 ULR-TC55841920000608P

<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 1 000/U, where U is the output voltage measured in accordance with 1.4.5 with all load circuits disconnected.</li> </ul>	<p>EL 2130-04</p>	<p>See above Cl. No. 6.3</p>	<p>N/A</p>
--	-------------------	------------------------------	------------

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

Total No of applicable Requirement = 00

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

Total number of tests to be conducted = 05

Total No of applicable Tests = 00

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

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

  
 (Approving Authority)



TRF No. BIS\_CCTVC/CCTVR\_IS13252\_V10



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

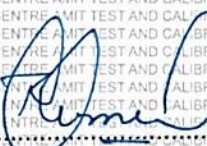
Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 60 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

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

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
7	Connection to cable distribution systems*	EL 2131-00	Equipment is not for connection to cable distribution system	N/A
7.1	General requirements*	EL 2131-01	See above Cl. No. 7	N/A
7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment	EL 2131-02	See above Cl. No. 7	N/A
7.3	Protection of equipment users from over voltages 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.

  
 (Approving Authority)



TRF No. BIS CCTVC/CCTVR IS13252\_V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 61 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

Tests relating to Fire Safety

EL 2132-V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
A	ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE	EL 2132-00	Metallic enclosure used	N/A
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)	EL 2132-01	See above Cl. No. A	N/A
A.1.1	Samples:	EL 2132-02	See above Cl. No. A	N/A
	Wall thickness (mm):		See above Cl. No. A	N/A
A.1.2	Conditioning of samples; temperature (°C):	EL 2132-03	See above Cl. No. A	N/A
A.1.3	Mounting of samples :	EL 2132-04	See above Cl. No. A	N/A
A.1.4	Test flame (see IEC 60695-11-3)	EL 2132-05	See above Cl. No. A	N/A
	Flame A, B, C or D :		See above Cl. No. A	N/A
A.1.5	Test procedure	EL 2132-06	See above Cl. No. A	N/A
A.1.6	Compliance criteria	EL 2132-07	See above Cl. No. A	N/A
	Sample 1 burning time (s):		See above Cl. No. A	N/A
	Sample 2 burning time (s):		See above Cl. No. A	N/A
	Sample 3 burning time (s):		See above Cl. No. A	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	See above Cl. No. A	N/A
A.2.1	Samples, material:	EL 2132-09	See above Cl. No. A	N/A
	Wall thickness (mm):		See above Cl. No. A	N/A
A.2.2	Conditioning of samples; temperature (°C):	EL 2132-10	See above Cl. No. A	N/A
A.2.3	Mounting of samples :	EL 2132-11	See above Cl. No. A	N/A
A.2.4	Test flame (see IEC 60695-11-4)	EL 2132-12	See above Cl. No. A	N/A
	Flame A, B or C :		See above Cl. No. A	N/A



TRF No. BIS\_CCTVC/CCTVR\_IS13252-V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaldpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 62 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

Tests relating to Fire Safety

EL 2132 - V1.4

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

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

Total No of applicable Requirement = 00

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

Total number of tests to be conducted = 20

Total No of applicable Tests = 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)



TRF No. BIS CCTVC/CCTVR-IS13252-V1.4



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 63 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2: 2013 ULR-TC55841920000608P

### Tests relating to Insulating Properties

### EL 2133 - V1.4

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

TRF No. BIS\_CCTVC/CCTVR\_IS13252\_V1.0



*Signature*



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaldpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 64 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

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

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
	Operating voltage (V) :		See above Cl. No. B	N/A

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

Total No of applicable Requirement = 00

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

Total number of tests to be conducted = 19

Total No of applicable Tests = 00

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

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

(Approving Authority)



TRF.No. BIS CCTVC/CCTVR IS13252 V1.4



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042

Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 65 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

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

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
C	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)*	EL 2134-00	Certified Power Supply used (See table 1.5.1)	P
	Position :		See above Cl. No. C	P
	Manufacturer :		See above Cl. No. C	P
	Type :		See above Cl. No. C	P
	Rated values :		See above Cl. No. C	P
	Method of protection:		See above Cl. No. C	P
C.1	Overload test	EL 2134-01	See above Cl. No. C	P
C.2	Insulation	EL 2134-02	See above Cl. No. C	P
	Protection from displacement of windings:		See above Cl. No. C	P

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

Total No of applicable Requirement = 01

No of Requirements for which the sample passed = 01

Total number of tests to be conducted = 02

Total No of applicable Tests = 02

No. of tests for which the sample passed = 02

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

  
(Approving Authority)



TRF No. BIS CCTVC/CCTVR-IS13252-V1.4



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaldpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 JS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 66 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

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

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

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

Total No of applicable Requirement = 00

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

Total number of tests to be conducted = 03

Total No of applicable Tests = 02

No. of tests for which the sample passed = 02

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

(Approving Authority)



TRF.No. BIS CCTVC/CCTVR-IS13252-V1.4



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042

Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405      IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 /      Page 67 of 105  
Dated: 09/04/2019      IEC 60950-1: 2005 + A1:2009 + A2 : 2013      ULR-TC55841920000608P

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

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

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

Total No of applicable Requirement = 00

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

Total number of tests to be conducted = 01

Total No of applicable Tests = 00

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

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

(Approving Authority)

TRF No. BIS CCTVC/CCTVR\_IS13252-V1.0





# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 68 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2: 2013 ULR-TC55841920000608P

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

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
F	ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10 and Annex G)	EL2137-00	Certified power supply used (See table 1.5.1)	P

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

Total No of applicable Requirement = 00

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

Total number of tests to be conducted = 01

Total No of applicable Tests = 01

No. of tests for which the sample passed = 01

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

(Approving Authority)



TRF No. BIS CCTVC/CCTVR-IS13252-V1.4



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14, 17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042

Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 69 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC558419200000608P

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

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



*[Handwritten Signature]*



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042

Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405	IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 /	Page 70 of 105
Dated: 09/04/2019	IEC 60950-1: 2005 + A1:2009 + A2: 2013	ULR-TC55841920000608P

- 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)

TRF No. BIS CCTVC/CCTVR-IS13252-V1.0





# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042

Ph.: +91-987127340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 71 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

Tests relating to Radiation Safety

EL 2139 - V1.4

Sl. 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

(Approving Authority)



TRF No. BIS\_CCTVC/CCTVR\_IS13252\_V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405      IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 /      Page 72 of 105  
Dated: 09/04/2019      IEC 60950-1: 2005 + A1:2009 + A2 : 2013      ULR-TC55841920000608P

Tests relating to Electrical Safety

EL 2140 - V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
J	ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)*	EL 2140-00	Appliance inlet is part of certified power supply	P
	Metal(s) used :		See above Cl. No. J	P

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

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

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

(Approving Authority)



TRF.No. BIS CCTVC/CCTVR\_IS13252-V1.4



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042

Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 73 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC558419200000608P

### Tests relating to General Requirement

### EL 2141 - V1.4

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

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

Total No of applicable Requirement = 00

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

Total number of tests to be conducted = 06

Total No of applicable Tests = 00

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

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

  
(Approving Authority)



TRF.No. BIS\_CCTVC/CCTVR\_IS13252\_V1.4



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaldpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 74 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

### Tests relating to General Requirement

### EL 2142 - V1.4

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
L	ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)*	EL 2142-00	In compliance	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.

  
(Approving Authority)



TRF.No. BIS CCTVC/CCTVR-IS13252-V1.4



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 75 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

Tests relating to Electrical Safety EL 2143 - V1.4

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

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

Total No of applicable Requirement = 00

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

Total number of tests to be conducted = 12

Total No of applicable Tests = 00

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

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

  
(Approving Authority)



TRF No. BIS CCTVC/CCTVR IS13252\_V1.4



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042

Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No.: **ATCC2/18122405** IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 76 of 105  
 Dated: **09/04/2019** IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC558419200000608P

Tests relating to Electrical safety

**EL 2144 - V1.4**

Sl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
<b>N</b>	<b>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)</b>	<b>EL 2144-00</b>		<b>N/A</b>
<b>N.1</b>	<b>ITU-T impulse test generators</b>	<b>EL 2144-01</b>		<b>N/A</b>
<b>N.2</b>	<b>IEC 60065 impulse test generator</b>	<b>EL 2144-02</b>		<b>N/A</b>

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.

  
 (Approving Authority)



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



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atcc.in

## TEST REPORT

Report No. : ATCC/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 77 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2: 2013 ULR-TC55841920000608P

Tests relating to General Requirements

EL 2145-V1.4

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

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

Total No of applicable Requirement = 00

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

Total number of tests to be conducted = 01

Total No of applicable Tests = 00

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

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

  
(Approving Authority)



TRF No. BIS\_CCTVC/CCTVR\_IS13252-V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaldpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 78 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

### Tests relating to General Requirements

### EL 2146 - V1.4

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



TRF No. BIS CCTVC/CCTVR-IS13252 V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14, 17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042

Ph.: +91-987127340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405	IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 /	Page 79 of 105
Dated: 09/04/2019	IEC 60950-1: 2005 + A1:2009 + A2: 2013	ULR-TC55841920000608P

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

Total No of applicable Requirement = 00

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

Total number of tests to be conducted = 03

Total No of applicable Tests = 03

No. of tests for which the sample passed = 03

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



(Approving Authority)

TRF No. BIS\_CCTVC/CCTVR\_IS13252\_V10





# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 80 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2: 2013 ULR-TC55841920000608P

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

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
R	ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES*	EL 2147-00		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.

  
 (Approving Authority)



TRF No. BIS CCTVC/CCTVR IS13252 V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042

Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 81 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC558419200000608P

Tests relating to General Requirement

EL 2148 – V1.4

Sl. 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.

  
(Approving Authority)



TRF No. BIS\_CCTVC/CCTVR\_IS13252\_V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 82 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

Tests relating to Protection against Ingress of water

EL 2149 - V1.4

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

(Approving Authority)



TRF No BIS CCTVC/CCTVR IS13252 V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14, 17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042

Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 83 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2: 2013 ULR-TC55841920000608P

Tests relating to Wiring

EL 2150 - V1.4

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



TRF No. BIS CCTVC/CCTVR IS13252\_V1.4



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No.: **ATCC2/18122405** IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 84 of 105  
Dated: **09/04/2019** IEC 60950-1: 2005 + A1:2009 + A2: 2013 ULR-TC55841920000608P

\*- 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)

TRF No. BIS CCTVC/CCTVR IS13252 V1.0





# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 85 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2: 2013 ULR-TC55841920000608P

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

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

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

Total No of applicable Requirement = 02

No of Requirements for which the sample passed = 02

Total number of tests to be conducted = 03

Total No of applicable Tests = 01

No. of tests for which the sample passed = 01

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

  
(Approving Authority)



TRF No. BIS CCTVC/CCTVR IS13252-V1



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 86 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

Tests relating to Electrical Safety

EL 2152 - V1.4

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

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

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

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

(Approving Authority)



TRF No. BIS CCTVC/CCTVR-IS13252-V1.4



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 87 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

Tests relating to Electrical Safety

EL 2153-V1.4

Cl. No	Test / Requirement name	Test Code	Test result/ observation	Verdict
X	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)*	EL 2153-00	Certified Power Supply used (See table 1.5.1)	P
X.1	Determination of maximum input current*	EL 2153-01	See above Cl. No. X	P
X.2	Overload test procedure*	EL 2153-02	See above Cl. No. X	P

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

Total No of applicable Requirement = 03

No of Requirements for which the sample passed = 03

Total number of tests to be conducted = 00

Total No of applicable Tests = 00

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

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

(Approving Authority)



TRF No. BIS\_CCTVC/CCTVR\_IS13252\_V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaldpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 88 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

Tests relating to Radiation Safety

EL 2154- V1.4

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

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

Total No of applicable Requirement = 00

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

Total number of tests to be conducted = 05

Total No of applicable Tests = 00

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

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

(Approving Authority)



TRF No. BIS CCTVC/CCTVR- IS13252 V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 89 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

Tests relating to Electrical Safety

EL 2155-V1.4

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

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

Total No of applicable Requirement = 01

No of Requirements for which the sample passed = 01

Total number of tests to be conducted = 00

Total No of applicable Tests = 00

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

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

  
(Approving Authority)





# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 90 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2: 2013 ULR-TC55841920000608P

Tests relating to Mechanical Properties

EL 2156 - V1.4

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

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

Total No of applicable Requirement = 00

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

Total number of tests to be conducted = 01

Total No of applicable Tests = 00

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

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

(Approving Authority)





# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 91 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

EL 2158 - V1.4

### Tests relating to Electrical Safety

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 Cl. No. CC	N/A
CC.2	Test program 1	EL 2158-02	See above Cl. No. CC	N/A
CC.3	Test program 2	EL 2158-03	See above Cl. No. CC	N/A
CC.4	Test program 3	EL 2158-04	See above Cl. No. CC	N/A
CC.5	Compliance	EL 2158-05	See above Cl. No. CC	N/A

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

Total No of applicable Requirement = 00

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

Total number of tests to be conducted = 04

Total No of applicable Tests = 00

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

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

  
(Approving Authority)



TRF No. BIS\_CCTVC/CCTVR\_IS13252\_V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14, 17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042

Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : **ATCC2/18122405** IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 92 of 105  
 Dated: **09/04/2019** IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC558419200000608P

### Tests relating to Mechanical Properties

### EL 2159 - V1.4

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

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

Total No of applicable Requirement = 00

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

Total number of tests to be conducted = 02

Total No of applicable Tests = 00

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

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

  
 (Approving Authority)



TRF No. BIS CCTVC/CCTVR IS13252 V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 93 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

Tests relating to Mechanical Properties

EL 2160 – V1.4

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

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

Total No of applicable Requirement = 00

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

Total number of tests to be conducted = 04

Total No of applicable Tests = 00

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

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

(Approving Authority)



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



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405

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

Page 94 of 105

Dated: 09/04/2019

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

ULR-TC558419200000608P

Object/part no.	Manufacturer/ trademark	Type/model	Technical data	Standard	Mark(s) of conformity
1.5.1	TABLE: List of components				
Switching Power Supply	DELTA ELECTRONICS INC	DPS-280AB-6C	AC INPUT:100-240V~/6A-3A 47Hz-63Hz, 292W DC OUTPUT: +12V, +55V 6A-4A	UL 60950-1 (Equivalent to IEC 60950-1)	UL E131881
RTC Battery	TOHOKU MURATA MANUFACTURING CO., LTD.	CR1220	3Vdc, Max. abnormal charging current 10mA	UL 1642 (No equivalent IEC standard)	UL MH12566
Alternate	SONY ELECTRONICS INC	CR1220	3Vdc, Max. abnormal charging current 10mA	UL 1642 (No equivalent IEC standard)	UL MH62201
PCB	EVERLAST WIN ELECTRONICS CO LTD	V0-7	Min. V-0, min. 105°C	UL 796 (No equivalent IEC standard)	UL E216522
Internal Wire	KUNSHAN XINGHONGMENG ELECTRONIC CO LTD	1007	80°C, 300V, 22AWG	UL 758 (No equivalent IEC standard)	UL E315421
Power cord Set					
Power Plug	I-Sheng Manufacturing (Song Gang) Factory	SP-81A	10A,250V~	IS 1293 : 2005	BIS CM/L no. 4036041
Alternate	Phino Electrical Wire & Cable (Huizhou) Co. Ltd.	PHP-324	10A,250V~	IS 1293 : 2005	BIS CM/L no. 4100033559
Power cord	I-Sheng Manufacturing (Song Gang) Factory	PVC insulated	1100V, 3Cx0.75mm <sup>2</sup>	IS 694 : 2010	BIS CM/L no. 4035948
Alternate	Shenzhen Baohing Electric Wire & Cable Manufacture Co. Ltd	PVC insulated	1100V, 3Cx0.75mm <sup>2</sup>	IS 694 : 2010	BIS CM/L no. 4006436
Connector	I-Sheng Electric Wire & Cable Co. Ltd.	IS-14	10A ,250V~	IEC/EN 60320-1	VDE 40028306
Alternate	Queen Puo Electrical Co., Ltd.	QP-007	10A, 250V~	IEC/EN 60320-1	VDE 40014980



Signature: Ramesh

TRF No: BIS CCTVC/CCTVR IS13252 - V10



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaldpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 95 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2: 2013 ULR-TC55841920000608P

Alternate	Phino Electric Co., Ltd.	PHS-301	10A, 250V-	ENEC no. 35-105184
			IEC/EN 60320-1	

### Supplementary information:

- Evidences provided by the manufacturer for the listed components are verified by us and the evidence is conforming to the requirements of the relevant standard



TRF No. BIS CCTVC/CCTVR IS13252 V1.0



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 96 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2: 2013 ULR-TC55841920000608P

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	
90	0.549	—	47.6	—	—	Measured at 50Hz	
100	0.493	6	47.5	—	—		
240	0.256	3	46.4	—	—		
254.4	0.253	—	46.4	—	—		

Supplementary information: Maximum Normal load

2.1.1.5 TABLE: Energy hazard measurement					P
Voltage (rated) (V)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)	
—	—	5.04	3.10	15.62	

Supplementary information: Nil

2.1.1.7 TABLE: Discharge test				P
Condition	$\tau$ calculated (s)	$\tau$ measured (s)	$t_{u \rightarrow 0V}$ (s)	Comments
—	—	—	—	

Supplementary information: Certified power supply used

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: Certified power supply used

2.2.3 TABLE: SELV measurement (under fault conditions)			P
Location	Voltage (max.) (V)	Comments	
—	—		

Supplementary information: Certified power supply used

2.4.2 TABLE: Limited current circuit measurement						P
Location	Voltage (V)	Current (mA)	Freq. (kHz)	Limit (mA)	Comments	
—	—	—	—	—		

Supplementary information: Certified power supply used





# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 97 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

2.5	TABLE: Limited power source measurement	Limits	Measured	Verdict
According to Table 2B/2C (normal condition) USB port on front Uoc=5.04Vdc				
current (in A)		≤8	3.10	P
apparent power (in VA)		≤100	15.62	P
According to Table 2B/2C (single fault condition) USB port on front pin 1 to pin 4 short circuited Output Voltage=0V				
current (in A)		≤8	0	P
apparent power (in VA)		≤100	0	P
According to Table 2B/2C (normal condition) HDMI port on backside Uoc=5.04Vdc				
current (in A)		≤8	0	P
apparent power (in VA)		≤100	0	P
According to Table 2B/2C (single fault condition) HDMI port on backside pin 17 to pin 19 short circuited Output Voltage=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	Resistance measured (mΩ)	Comments	Verdict
Location				
Earthing pin of inlet to farthest point on metallic point		0.007Ω	U <sub>1</sub> =1.03, U <sub>2</sub> =1.27V Voltage drop=1.27V-1.03V=0.24	P
Supplementary information: Tested current 32A				

2.6.3.4	TABLE: Resistance of earthing measurement	Voltage drop (V)	Comments	Verdict
Location				
Supplementary information: Tested current 40A				

2.10.2	Table: Working voltage measurement	RMS voltage (V)	Peak voltage (V)	Comments	Verdict
Location					
Supplementary information: Certified power supply used					



Signature





# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaldpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 99 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2: 2013 ULR-TC558419200000608P

### 4.5 TABLE: Temperature rise measurements P

Temperatures were measured according cl. 1.4.5. Test in condition A and B at continuous normal operation as for power input measurements of table 1.6.2 resulted in highest temperature values.

Temperatures are calculated according cl. 1.4.12.3 with regard to the maximum ambient operation temperature of 40°C (T<sub>ma</sub>), as specified by the manufacturer.

test voltage(s) (V): A: 90Vac, 50Hz B: 254.4Vac, 50Hz

t<sub>amb1</sub> (°C): A: 26 B: 27 t<sub>amb2</sub> (°C): A: 26 B: 27

(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	B	A	B	
dT (K)			T (°C)	T (°C)	
Metallic enclosure (Bottom side)	07	08	47	48	70
PCB	21	23	61	63	130
USB Port on backside	15	16	55	56	70
Metallic enclosure (Top side)	05	06	45	46	70

Supplementary information: Thermocouple method used for determining the temperature.

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 P

Allowed impression diameter (mm) ≤ 2 mm

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

Supplementary information: Certified power supply used

### 4.6.1, 4.6.2 Table: Enclosure opening measurements P

Location Size (mm) Comments

Right Side	19.69 X 1.71 (Numerous rectangular openings)	No hazardous
Left Side	19.71 X 1.78 (Numerous rectangular openings)	No hazardous

Supplementary information: Nil

TRF No. BIS CCTVC/CCTVR IS13252 V1.0



Signature



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

Kh.No. 45/14,17 & 45/6 & 7, Village Prahaldpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1), 2010 + A1: 2013 + A2 : 2015 / Page 100 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2 : 2013 ULR-TC55841920000608P

4.7	Table: Resistance to fire				N/A
Part	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence
--	--	--	--	--	--

Supplementary information: Metallic enclosure used

5.1.6	TABLE: Touch current and protective conductor current measurement				P
Test voltage (V)		AC 254.4V, 50Hz			--
Measurement location	Polarity (normal) [mA]	Polarity (reverse) [mA]	Limit (mA)	Comments	
(Terminal A connected to...)	Switch: ON	Switch: OFF	Switch: ON	Switch: OFF	
L/N to metallic part	1.09	--	0.99	--	3.5

Supplementary information: Nil

5.2	TABLE: Electric strength tests, impulse tests and voltage surge tests				P
Test voltage applied between:		Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No	
Functional: <input checked="" type="checkbox"/>					
Basic / supplementary: <input type="checkbox"/>					
Reinforced: <input type="checkbox"/>					

Supplementary information: Certified Power supply used

5.3	TABLE: Fault condition tests				P	
Ambient temperature (°C)		28°C			P	
Power source for EUT: Manufacturer, model/type, output rating		See table 1.5.1			P	
Component No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (A)	Observation
USB Port on backside	Short Circuit	254.4V	2 min.	--	--	USB port stop working Unit Operated normally Result: No fire, No Hazard
Opening	Blocked	254.4V	4 hours	--	--	Unit operated normally, Temperature on metallic enclosure bottom side 51°C No damage, no hazards

Supplementary information: Nil



*[Handwritten Signature]*



# AMIT TEST AND CALIBRATION CENTRE

(NABL ACCREDITED LABORATORY)

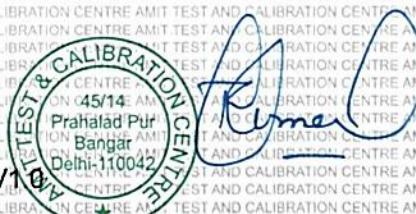
Kh.No. 45/14, 17 & 45/6 & 7, Village Prahaladpur Bangar, Near Kali Mata Mandir, Delhi-110042  
Ph.: +91-9871727340, 9911196977 Email : amittestcc2@gmail.com Website : www.atncc.in

## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 101 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2: 2013 ULR-TC55841920000608P

C.2	TABLE: Insulation of transformers			P	
	Transformer part name	Certified power supply used		P	
	Manufacturer	See above		P	
	Type	See above		P	
	Clearance (cl) and creepage distance (cr) at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	Required 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	Certified power supply used			
	Secondary/output pins	See above			
	Material (manufacturer, type, ratings)	See above			
	Thickness (mm)	See above			
(b) General					
Please insert here a description of the transformer design describing:					
Supplementary information: Certified power supply used					

TRF No. BIS\_CCTVC/CCTVR\_IS13252\_V1



## TEST REPORT

Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 102 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2: 2013 ULR-TC558419200000608P

Attachment no. 1  
India Plug Test Report

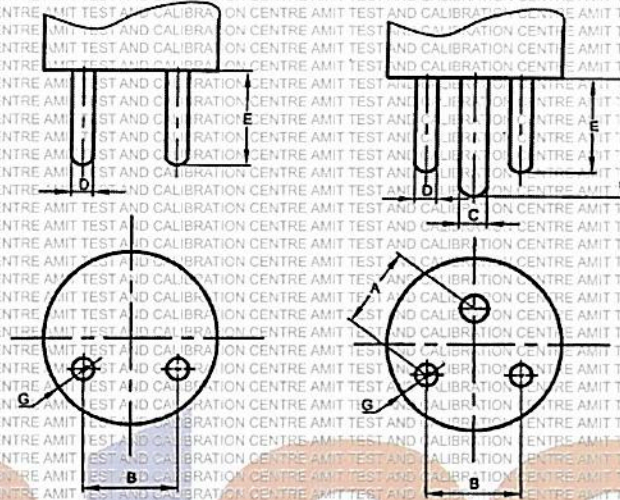


Table 1 : Plug Dimensions

Reference points	Type of Plug: Two pin [ ] Three pin[X]		Ratings	
	2.5A [ ]	10A [X]	16A [ ]	
	Limits	Measured	Limits	Measured
A	22.05-22.35	22.23	28.45-28.75	
B	18.95-19.25	19.20	25.25-25.55	
C	7.01-7.085	7.05	8.66-8.735	
D	5.03-5.105	5.06	7.01-7.085	
E	15.77-16.94	15.90	20.47-21.64	
F	20.47-21.64	20.73	28.47-29.64	
G	7.94 (min.)	7.94 (min.)	10.36	9.52 (min.)

Supplementary information: Above dimensional limits are as per IS 1293:2005 in mm



*(Signature)*

### TEST REPORT

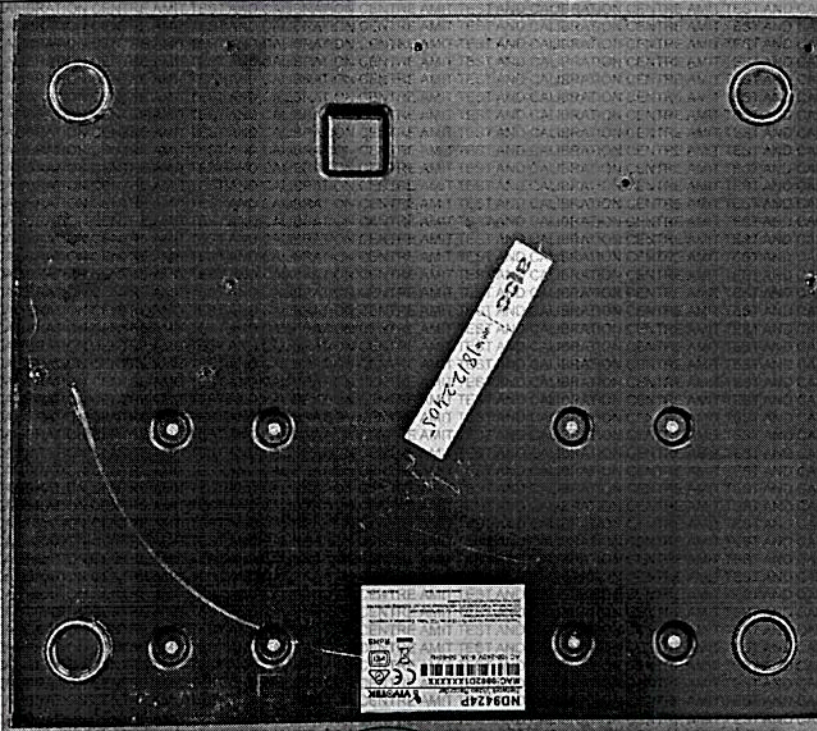
Report No. : ATCC2/18122405 IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / Page 103 of 105  
Dated: 09/04/2019 IEC 60950-1: 2005 + A1:2009 + A2: 2013 ULR-TC55841920000608P

Attachment no.2

### PHOTOGRAPHS



TOP VIEW



BOTTOM VIEW

TRF No. BIS CCTVC/CCTVR IS13252\_V1  
45/14  
Prahald Pur  
Bangar  
Delhi-110042



*Kumar*

Report No. : ATCC2/18122405

## TEST REPORT

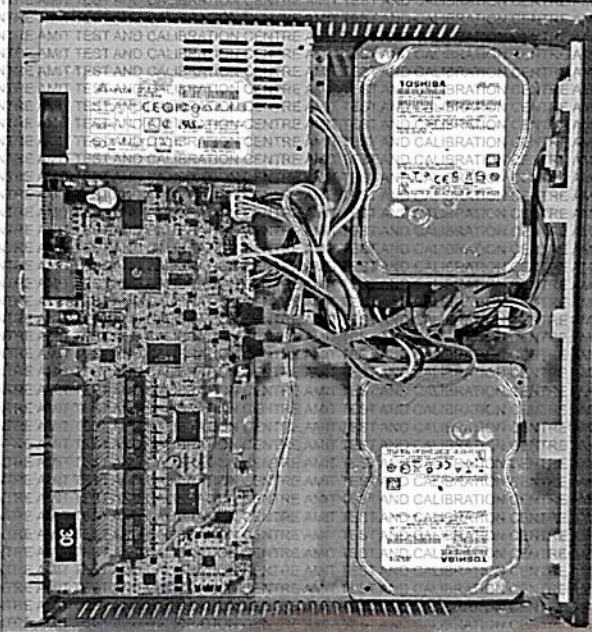
IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 /

Page 104 of 105

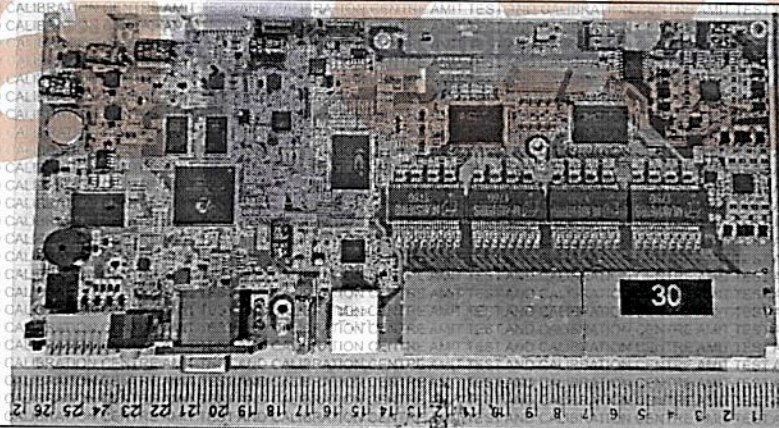
Dated: 09/04/2019

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

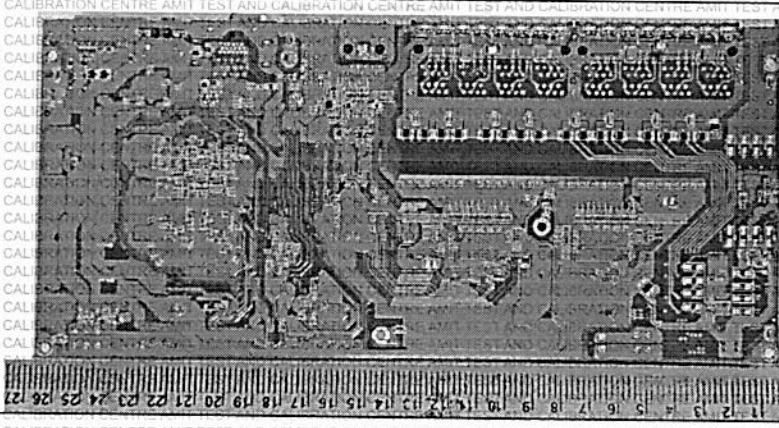
ULR-TC55841920000608P



INTERNAL VIEW



PCB VIEW 1



PCB VIEW 2

TRF.No. BIS CCTVC/CCTVR-IS13252\_V1.0



