



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	REACT LABORATORIES, 3411, 3RD FLOOR, SERVICE ROAD VIJAYANAGAR, BENGALURU, KARNATAKA, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-8039	<b>Page No</b>	1 of 37
<b>Validity</b>	19/10/2020 to 18/10/2022	<b>Last Amended on</b>	17/12/2021

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications Part 3 Prismatic and cylindrical lithium secondary cells, and batteries made from them	Discharge Performance at (-)20°C	Cl.7.3.2 -IEC 61960-3:2017 / IS 16047(part 3)
2	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications Part 3 Prismatic and cylindrical lithium secondary cells, and batteries made from them	Cell and battery designation	Cl.5.1 - IEC 61960-3:2017 / IS 16047(part 3)
3	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications Part 3 Prismatic and cylindrical lithium secondary cells, and batteries made from them	Charge (capacity) recovery after long term storage	Cl.7.5 - IEC 61960-3:2017 / IS 16047(part 3)
4	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications Part 3 Prismatic and cylindrical lithium secondary cells, and batteries made from them	Charge (capacity) retention and recovery	Cl.7.4 - IEC 61960-3:2012 / IS 16047(part 3)
5	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications Part 3 Prismatic and cylindrical lithium secondary cells, and batteries made from them	Discharge Performance at 20°C (rated capacity)	Cl.7.3.1 - IEC 61960-3:2017 / IS 16047(part 3)
6	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications Part 3 Prismatic and cylindrical lithium secondary cells, and batteries made from them	Endurance in Cycles - General	Cl.7.6.1 - IEC 61960-3:2017 / IS 16047(part 3)
7	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications Part 3 Prismatic and cylindrical lithium secondary cells, and batteries made from them	Endurance in cycles at a rate of 0.2 It A	Cl.7.6.2 - IEC 61960-3:2017 / IS 16047(part 3)
8	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications Part 3 Prismatic and cylindrical lithium secondary cells, and batteries made from them	Endurance in cycles at a rate of 0.5 It A (accelerated test procedure)	Cl.7.6.3 - IEC 61960-3:2017 / IS 16047(part 3)
9	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications Part 3 Prismatic and cylindrical lithium secondary cells, and batteries made from them	General - Battery Internal Resistance	Cl.7.7.1 - IEC 61960-3:2017 / IS 16047(part 3)
10	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications Part 3 Prismatic and cylindrical lithium secondary cells, and batteries made from them	High rate discharge Performance at 20°C	Cl.7.3.3 - IEC 61960-3:2017 / IS 16047(part 3)



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11	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications Part 3 Prismatic and cylindrical lithium secondary cells, and batteries made from them	Marking	Cl.5.2 - IEC 61960-3:2017 / IS 16047(part 3)
12	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications Part 3 Prismatic and cylindrical lithium secondary cells, and batteries made from them	Measurement of the internal AC resistance	Cl.7.7.2 - IEC 61960-3:2017 / IS 16047(part 3)
13	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications Part 3 Prismatic and cylindrical lithium secondary cells, and batteries made from them	Measurement of the internal DC resistance	Cl.7.7.3 - IEC 61960-3:2017 / IS 16047(part 3)
14	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Nonacid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from them, for Use in Portable Applications Part 2 Lithium Systems	Assembly of Cells into Batteries	Cl. 5.6 - IEC 62133-2:2017 / IS 16046(Part 2)
15	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Nonacid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from them, for Use in Portable Applications Part 2 Lithium Systems	Battery marking	Cl.9.2 - IEC 62133-2:2017 / IS 16046(Part 2)
16	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Nonacid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from them, for Use in Portable Applications Part 2 Lithium Systems	Case stress at high ambient temperature (batteries)	Cl.7.2.2 - IEC 62133-2:2017 / IS 16046(Part 2)
17	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Nonacid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from them, for Use in Portable Applications Part 2 Lithium Systems	Caution for ingestion of small cells and batteries	Cl.9.3 - IEC 62133-2:2017 / IS 16046(Part 2)
18	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Nonacid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from them, for Use in Portable Applications Part 2 Lithium Systems	Cell marking	Cl. 9.1 - IEC 62133-2:2017 / IS 16046(Part 2)
19	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Nonacid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from them, for Use in Portable Applications Part 2 Lithium Systems	Charging and discharging range of secondary lithium ion cells for safe use	Annex A - IEC 62133-2:2017 / IS 16046(Part 2)
20	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Nonacid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from them, for Use in Portable Applications Part 2 Lithium Systems	Continuous charging at constant voltage(cells)	Cl.7.2.1 - IEC 62133-2:2017 / IS 16046(Part 2)
21	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Nonacid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from them, for Use in Portable Applications Part 2 Lithium Systems	External Short Circuit (Battery)	Cl.7.3.2 - IEC 62133-2:2017 / IS 16046(Part 2)



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22	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Nonacid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from them, for Use in Portable Applications Part 2 Lithium Systems	External Short Circuit (Cells)	Cl.7.3.1 - IEC 62133-2:2017 / IS 16046(Part 2)
23	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Nonacid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from them, for Use in Portable Applications Part 2 Lithium Systems	Forced discharge (cells)	Cl.7.3.7 - IEC 62133-2:2017 / IS 16046(Part 2)
24	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Nonacid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from them, for Use in Portable Applications Part 2 Lithium Systems	Free fall	Cl.7.3.3 - IEC 62133-2:2017 / IS 16046(Part 2)
25	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Nonacid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from them, for Use in Portable Applications Part 2 Lithium Systems	Information for safety	Cl.8 - IEC 62133-2:2017 / IS 16046(Part 2)
26	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Nonacid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from them, for Use in Portable Applications Part 2 Lithium Systems	Insulation and Wiring	Cl. 5.2 - IEC 62133-2:2017 / IS 16046 (Part 2)
27	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Nonacid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from them, for Use in Portable Applications Part 2 Lithium Systems	Marking	Cl.9 - IS 16046(part 2)
28	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Nonacid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from them, for Use in Portable Applications Part 2 Lithium Systems	Measurement of the internal AC resistance for coin cells	Annex D - IEC 62133-2:2017 / IS 16046(Part 2)
29	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Nonacid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from them, for Use in Portable Applications Part 2 Lithium Systems	Mechanical Shock	Cl.7.3.8.2 - IEC 62133-2:2017 / IS 16046(Part 2)
30	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Nonacid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from them, for Use in Portable Applications Part 2 Lithium Systems	Overcharging of Battery	Cl.7.3.6 - IEC 62133-2:2017 / IS 16046(Part 2)
31	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Nonacid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from them, for Use in Portable Applications Part 2 Lithium Systems	Packaging	Cl.10 - IS 16046(part 2)
32	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Nonacid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from them, for Use in Portable Applications Part 2 Lithium Systems	Packaging and transport	Cl 10 & Annex E - IEC 62133-2:2017 / IS 16046(Part 2)



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33	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Nonacid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from them, for Use in Portable Applications Part 2 Lithium Systems	Small cell and battery safety information	Cl.8.2 - IEC 62133-2:2017 / IS 16046(Part 2)
34	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Nonacid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from them, for Use in Portable Applications Part 2 Lithium Systems	Temperature, Voltage and Current Management	Cl. 5.4 - IEC 62133-2:2017 / IS 16046 (Part 2)
35	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Nonacid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from them, for Use in Portable Applications Part 2 Lithium Systems	Terminal Contacts	Cl.5.5 - IEC 62133-2:2017 / IS 16046 (Part 2)
36	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Nonacid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from them, for Use in Portable Applications Part 2 Lithium Systems	Thermal abuse (cells)	Cl.7.3.4 - IEC 62133-2:2017 / IS 16046(Part 2)
37	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Nonacid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from them, for Use in Portable Applications Part 2 Lithium Systems	Venting	Cl. 5.3 - IEC 62133-2:2017 / IS 16046 (Part 2)
38	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Nonacid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from them, for Use in Portable Applications Part 2 Lithium Systems	Vibration	Cl.7.3.8.1 - IEC 62133-2:2017 / IS 16046(Part 2)
39	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries Containing Alkaline or Other Nonacid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from them, for Use in Portable Applications Part 2 Lithium Systems	Crush (cells)	Cl.7.3.5 - IEC 62133-2:2017 / IS 16046(Part 2)
40	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries For Solar Photovoltaic Application - General Requirements and Methods of Test	Capacity test	Cl.8.1 - IS 16270 (RA 2019)
41	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries For Solar Photovoltaic Application - General Requirements and Methods of Test	Charge Efficiency	Cl.5.2 - IS 16270 (RA 2019)
42	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries For Solar Photovoltaic Application - General Requirements and Methods of Test	Charge Retention test	Cl.8.3 - IS 16270 (RA 2019)
43	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries For Solar Photovoltaic Application - General Requirements and Methods of Test	Cycle endurance in Photovoltaic Application (Extreme Condition)	Cl.8.4 - IS 16270 (RA 2019)
44	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries For Solar Photovoltaic Application - General Requirements and Methods of Test	Deep Discharge Protection	Cl. 5.3 - IS 16270 (RA 2019)
45	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries For Solar Photovoltaic Application - General Requirements and Methods of Test	Endurance Test	Cl.8.2 - IS 16270 (RA 2019)



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46	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries For Solar Photovoltaic Application - General Requirements and Methods of Test	Marking	Cl.5.4 - IS 16270 (RA 2019)
47	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries For Solar Photovoltaic Application - General Requirements and Methods of Test	Mechanical Endurance	Cl.5.1 - IS 16270 (RA 2019)
48	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries For Solar Photovoltaic Application - General Requirements and Methods of Test	Non-Spillability//Semi Non Spillability /Splash Proof test	Cl.8.7 - IS 16270 (RA 2019)
49	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries For Solar Photovoltaic Application - General Requirements and Methods of Test	Sulphation test	Cl.8.5 - IS 16270 (RA 2019)
50	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries For Solar Photovoltaic Application - General Requirements and Methods of Test	Water consumption of flooded battery types and cells with partial gas recombination	Cl.8.4.5 - IS 16270 (RA 2019)
51	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries For Solar Photovoltaic Application - General Requirements and Methods of Test	Water loss test	Cl.8.6 - IS 16270 (RA 2019)
52	ELECTRICAL- CELLS & BATTERIES	Stationary cells and batteries lead-acid type (with tubular positive plates)-specification	Alternative rates of test discharges	Cl.12.6 - IS 1651 (RA 2018)
53	ELECTRICAL- CELLS & BATTERIES	Stationary cells and batteries lead-acid type (with tubular positive plates)-specification	Ampere-Hour and Watt-Hour efficiency Tests	Cl.12.9 - IS 1651 (RA 2018)
54	ELECTRICAL- CELLS & BATTERIES	Stationary cells and batteries lead-acid type (with tubular positive plates)-specification	Capacities and Dimensions	Cl.7 & 12.4 - IS 1651 (RA 2018)
55	ELECTRICAL- CELLS & BATTERIES	Stationary cells and batteries lead-acid type (with tubular positive plates)-specification	Constructional Requirements	Cl. 6 - IS 1651 (RA 2018)
56	ELECTRICAL- CELLS & BATTERIES	Stationary cells and batteries lead-acid type (with tubular positive plates)-specification	Endurance test	Cl.12.8 - IS 1651 (RA 2018)
57	ELECTRICAL- CELLS & BATTERIES	Stationary cells and batteries lead-acid type (with tubular positive plates)-specification	Loss of capacity on storage	Cl.12.7 - IS 1651 (RA 2018);
58	ELECTRICAL- CELLS & BATTERIES	Stationary cells and batteries lead-acid type (with tubular positive plates)-specification	Marking & Packing	Cl.8 & 12.3 - IS 1651 (RA 2018)
59	ELECTRICAL- CELLS & BATTERIES	Stationary cells and batteries lead-acid type (with tubular positive plates)-specification	Materials	Cl. 5 - IS 1651 (RA 2018)
60	ELECTRICAL- CELLS & BATTERIES	Stationary cells and batteries lead-acid type (with tubular positive plates)-specification	Short circuit current and Internal resistance Test	Cl.12.13 - IS 1651 (RA 2018)
61	ELECTRICAL- CELLS & BATTERIES	Stationary cells and batteries lead-acid type (with tubular positive plates)-specification	Test for capacity	Cl.12.5 - IS 1651 (RA 2018)
62	ELECTRICAL- CELLS & BATTERIES	Stationary cells and batteries lead-acid type (with tubular positive plates)-specification	Test of Suitability of Floating Battery operation	Cl.12.12 - IS 1651 (RA 2018)
63	ELECTRICAL- CELLS & BATTERIES	Stationary cells and batteries lead-acid type (with tubular positive plates)-specification	Tests for Voltage During Discharge	Cl.12.10 - IS 1651 (RA 2018)



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64	ELECTRICAL- CELLS & BATTERIES	Stationary cells and batteries lead-acid type (with tubular positive plates)-specification	Water Loss Test	Cl.12.11 - IS 1651 (RA 2018)
65	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries (with tubular positive plates) in Monobloc Container-Specification)	Water Loss Test	Cl.11.9 - IS 13369 (RA 2017)
66	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries (with tubular positive plates) in Monobloc Container-Specification)	Ampere-hour and Watt-hour efficiency tests	Cl.11.8 - IS 13369 (RA 2017)
67	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries (with tubular positive plates) in Monobloc Container-Specification)	Capacities and dimensions	Cl.7 & 11.4 - IS 13369 (RA 2017)
68	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries (with tubular positive plates) in Monobloc Container-Specification)	Construction requirement	Cl.6 & 11.2 - IS 13369 (RA 2017)
69	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries (with tubular positive plates) in Monobloc Container-Specification)	Endurance test	Cl.11.7 - IS 13369 (RA 2017)
70	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries (with tubular positive plates) in Monobloc Container-Specification)	Equilibrium Float Current Test	Cl.11.10 - IS 13369 (RA 2017)
71	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries (with tubular positive plates) in Monobloc Container-Specification)	Loss of capacity on Storage	Cl.11.6 - IS 13369 (RA 2017)
72	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries (with tubular positive plates) in Monobloc Container-Specification)	Marking & Packing	Cl.8, 11.3 - IS 13369 (RA 2017)
73	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries (with tubular positive plates) in Monobloc Container-Specification)	Materials	Cl. 5 - IS 13369 (RA 2017)
74	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries (with tubular positive plates) in Monobloc Container-Specification)	Test for Capacity	Cl.11.5 - IS 13369 (RA 2017)
75	ELECTRICAL- CELLS & BATTERIES	Stationary valve regulated lead acid batteries-specification	Ampere Hour Efficiency	Cl.12.4 - IS 15549 (RA 2020)
76	ELECTRICAL- CELLS & BATTERIES	Stationary valve regulated lead acid batteries-specification	Capacity test at other discharge rates	Cl.12.3 - IS 15549 (RA 2020)
77	ELECTRICAL- CELLS & BATTERIES	Stationary valve regulated lead acid batteries-specification	Cl. 12.8 - Test for vent seal operation	IS 15549 (RA 2020)
78	ELECTRICAL- CELLS & BATTERIES	Stationary valve regulated lead acid batteries-specification	Endurance Life cycle Test	Cl.12.10 - IS 15549 (RA 2020)
79	ELECTRICAL- CELLS & BATTERIES	Stationary valve regulated lead acid batteries-specification	Flame arrestor	Cl. 5 - IS 15549 (RA 2020)
80	ELECTRICAL- CELLS & BATTERIES	Stationary valve regulated lead acid batteries-specification	Markings on cell	Cl. 8 - IS 15549 (RA 2020)
81	ELECTRICAL- CELLS & BATTERIES	Stationary valve regulated lead acid batteries-specification	Material and Construction	Cl. 4 - IS 15549 (RA 2020)
82	ELECTRICAL- CELLS & BATTERIES	Stationary valve regulated lead acid batteries-specification	Test for C1 Capacity	Cl.12.2 - IS 15549 (RA 2020)



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83	ELECTRICAL- CELLS & BATTERIES	Stationary valve regulated lead acid batteries-specification	Test for C10 Capacity	Cl.12.1 - IS 15549 (RA 2020)
84	ELECTRICAL- CELLS & BATTERIES	Stationary valve regulated lead acid batteries-specification	Test for Oxygen Recombination Efficiency	Cl.12.9 - IS 15549 (RA 2020)
85	ELECTRICAL- CELLS & BATTERIES	Stationary valve regulated lead acid batteries-specification	Test for Retention of Charge	Cl.12.6 - IS 15549 (RA 2020)
86	ELECTRICAL- CELLS & BATTERIES	Stationary valve regulated lead acid batteries-specification	Test on separators	Cl.12.7 - IS 15549 (RA 2020)
87	ELECTRICAL- CELLS & BATTERIES	Stationary valve regulated lead acid batteries-specification	Watt Hour Efficiency	Cl.12.5 - IS 15549 (RA 2020)
88	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Antenna coaxial sockets - Endurance test	IEC 60065: 2014 IS 616:2017 (Clause 12.5)
89	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Bump Test	IEC 60065: 2014 IS 616:2017 (Clause 12.1.2)
90	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Constructional requirements with regard to the protection against electric shock - Force Test	IEC 60065: 2014 IS 616:2017 (Clause 8.12, 8.13, 8.14)
91	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Electrical shock hazard under normal operating condition - Resistance to external forces	IEC 60065: 2014 IS 616:2017 (Clause 9.1.7)
92	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Electrical Shock hazard under normal operating conditions - Determination of accessible parts	IEC 60065: 2014 IS 616:2017 (Clause 9.1.1.3)
93	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Fault Conditions	IEC 60065: 2014 IS 616:2017 (Clause 4.3)
94	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Terminals for external flexible cords and for permanent connection to the mains supply	IEC 60065: 2014 IS 616:2017 (Clause 15.3,15.3.2,15.3.5, 15.3.6,15.3.7)
95	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Wall or ceiling mounted equipment	IEC 60065: 2014 IS 616:2017 (Clause 19.7)
96	ELECTRONICS- AUDIO EQUIPMENT	Audio Equipment	Clause No: 10.2 - Surge test	IEC 60065
97	ELECTRONICS- AUDIO EQUIPMENT	Audio Equipment	Clause No: 8.21 - Mandrel Test	IEC 60065
98	ELECTRONICS- AUDIO EQUIPMENT	Audio Equipment	Clause No:12.7.3.6 - Crush Test	IEC 60065
99	ELECTRONICS- AUDIO EQUIPMENT	Audio Equipment	Clause No:15.4 - Devices forming a part of mains plug	IEC 60065



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100	ELECTRONICS- AUDIO EQUIPMENT	Audio Equipment	Clause No:8.21 - Mandrel Test	IS 616
101	ELECTRONICS- AUDIO EQUIPMENT	Audio Equipment	Crush Test	IS 616 (Clause No: 12.7.3.6)
102	ELECTRONICS- AUDIO EQUIPMENT	Audio Equipment	Devices forming a part of mains plug	IS 616 (Clause No:15.4)
103	ELECTRONICS- AUDIO EQUIPMENT	Audio Equipment	Surge Test	IS 616 (Clause No: 10.2)
104	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Cycling test on wound components	Clause 8.17 - IS 616
105	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Printed Boards	Clause 13.5 - IS 616
106	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Apparatus to be connected to the Telecommunication networks	Annex B - IS 616
107	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Remote control devices held in hand	Clause 12.3 - IS 616
108	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Antenna Coaxial socket - Impact test	IEC 60065: 2014 IS 616:2017 (Clause 12.5)
109	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Antenna Coaxial socket - Torque test	IEC 60065: 2014 IS 616:2017 (Clause 12.5)
110	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Battery Replacement tests	IEC 60065: 2014 IS 616:2017 (Clause 12.7.3.3)
111	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Clearances	IEC 60065: 2014 IS 616:2017 (Clause 13.3, Annex E & J))
112	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Clearances and creepage Distances - Determination of working voltages	IEC 60065: 2014 IS 616:2017 (Clause13.1, 13.2)
113	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	compliance	IEC 60065: 2014 IS 616:2017 (Clause 12.7.4)
114	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Constructional requirements with regard to protection against electric shock.	IEC 60065: 2014 IS 616:2017 (Clause 8.6, 8.8, 8.9, 8.10, 8.11)
115	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Constructional requirements with regard to the protection against electric shock	Cl. 8 & Annex H - IS 616
116	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Constructional requirements with regard to the protection against electric shock	IEC 60065: 2014 IS 616:2017 (Clause 8.1,8.7,8.15, 8.16, 8.18,8.19,8.20)





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117	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Constructional requirements with regard to the protection against electric shock - Test on insulating material	IEC 60065: 2014 IS 616:2017 (Clause 8.3)
118	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Constructional requirements with regards to protection against electric shock	IEC 60065: 2014 IS 616:2017 (Clause 8.2)
119	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Creepage Distances	IEC 60065: 2014 IS 616:2017 (Clause 13.4, Annex E)
120	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Drawers	IEC 60065: 2014 IS 616:2017 (Clause 12.4)
121	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Drop Test	IEC 60065: 2014 IS 616:2017 (Clause 12.1.5, 12.7.3.4)
122	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Electrical connections and mechanical fixings	IEC 60065: 2014 IS 616:2017 (Clause 17)
123	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Electrical shock hazard under normal operating condition - Openings of the enclosure	IEC 60065: 2014 IS 616:2017 (Clause 9.1.3)
124	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Electrical shock hazard under normal operating condition - Pre-set conditions	IEC 60065: 2014 IS 616:2017 (Clause 9.1.5)
125	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Electrical shock hazard under normal operating condition - Terminals	IEC 60065: 2014 IS 616:2017 (Clause 9.1.4)
126	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Electrical shock hazard under normal operating condition - Withdrawal of MAINS plug	IEC 60065: 2014 IS 616:2017 (Clause 9.1.6)
127	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Electrical Shock hazard under normal operating conditions - Determination of hazardous live parts	IEC 60065: 2014 IS 616:2017 (Clause 9.1.1.1, 9.1.1.2, Annex D)
128	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Enclosed and sealed parts	Clause 13.7 - IS 616
129	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	External flexible cords	IEC 60065: 2014 IS 616:2017 (Clause 16.2, 16.3, 16.5)
130	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	External flexible cords	IEC 60065: 2014 IS 616:2017 (Clause 16.4)
131	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Fault Condition - Electric Shock Hazard	IEC 60065: 2014 IS 616:2017 (Clause 11.1)



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132	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Fault Condition - Heating	IEC 60065: 2014 IS 616:2017 (Clause 11.2)
133	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Fixing of Actuating Elements	IEC 60065: 2014 IS 616:2017 (Clause 12.2)
134	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Heat Resistance of Insulating material	Clause 7.2 - IEC 60065: 2014 IS 616:2017
135	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Heating under normal operating conditions	IEC 60065: 2014 IS 616:2017 (Clause 7)
136	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Humidity Treatment	IEC 60065: 2014 IS 616:2017 (Clause 10.3, Annex A)
137	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Impact Test	IEC 60065: 2014 IS 616:2017 (Clause 12.1.4, 12.7.3.5)
138	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Insulation resistance and Dielectric strength test	IEC 60065: 2014 IS 616:2017 (Clause 10.4)
139	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Jointed Insulation	IEC 60065: 2014 IS 616:2017 (Clause 13.6)
140	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Marking and Instructions - General requirements	IEC 60065: 2014 IS 616:2017 (Clause 5.1)
141	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Marking and Instructions - Identification and supply ratings	IEC 60065: 2014 IS 616:2017 (Clause 5.2 (g) & (h))
142	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Measurement of Transient Voltages	IEC 60065: 2014 IS 616:2017 (Clause 13.3.4, Annex K)
143	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Mechanical Strength of Glass	IEC 60065: 2014 IS 616:2017 (Clause 19.6)
144	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Normal Operating conditions	IEC 60065: 2014 IS 616:2017 (Clause 4.2)
145	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Provision for protective earthing	IEC 60065: 2014 IS 616:2017 (Clause 15.2)
146	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Removal of protective covers	IEC 60065: 2014 IS 616:2017 (Clause 9.2)
147	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Shafts of operating Knobs, handles, Levers and the like	IEC 60065: 2014 IS 616:2017 (Clause 9.1.2)
148	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Stability and Mechanical hazards - Test at 100 to horizontal	IEC 60065: 2014 IS 616:2017 (Clause 19.1, 19.2)
149	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Stability and Mechanical hazards - Vertical Force test & Horizontal test	IEC 60065: 2014 IS 616:2017 (Clause 19.3, 19.4)



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150	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Stress Relief Test	IEC 60065: 2014 IS 616:2017 (Clause 12.1.6, 12.7.3.2)
151	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Telescoping or rod antennas	IEC 60065: 2014 IS 616:2017 (Clause 12.6.1, 12.6.2)
152	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and Similar electronic apparatus	Vibration Test	Clause 12.1.3 - IS 616
153	ELECTRONICS- AUDIO EQUIPMENT	Audio, Video and similar electronics apparatus	Fault condition- Heating	IEC 60065: 2015, IS 616: 2017 (Clause 7)
154	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Sub - Assemblies	Ingress Protection, 1st characteristic numeral IP1X	IEC 60529, IEC 60950- 22: 2013
155	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Sub - Assemblies	Ingress Protection, 1st characteristic numeral IP2X	IEC 60529, IEC 60950- 22: 2013
156	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Sub - Assemblies	Ingress Protection, 1st characteristic numeral IP3X	IEC 60529, IEC 60950- 22: 2013
157	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Sub - Assemblies	Ingress Protection, 1st characteristic numeral IP4X	IEC 60529, IEC 60950- 22: 2013
158	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Sub - Assemblies	Ingress Protection, 1st characteristic numeral IP5X	IEC 60529, IEC 60950- 22: 2013, QM 333, JSS 55555
159	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Sub - Assemblies	Ingress Protection, 1st characteristic numeral IP6X	IEC 60529, IEC 60950- 22: 2013, QM 333, JSS 55555
160	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Sub - Assemblies	Ingress Protection, 2nd characteristic numeral IPX1	IEC 60529, IEC 60950- 22: 2013
161	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Sub - Assemblies	Ingress Protection, 2nd characteristic numeral IPX2	IEC 60529, IEC 60950- 22: 2013
162	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Sub - Assemblies	Ingress Protection, 2nd characteristic numeral IPX3	IEC 60529, IEC 60950- 22: 2013
163	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Sub - Assemblies	Ingress Protection, 2nd characteristic numeral IPX4	IEC 60529, IEC 60950- 22: 2013
164	ELECTRONICS- ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Sub - Assemblies	Ingress Protection, 2nd characteristic numeral IPX5	IEC 60529, IEC 60950- 22: 2013



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165	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Sub - Assemblies	Ingress Protection, 2nd characteristic numeral IPX6	IEC 60529, IEC 60950- 22: 2013
166	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Sub - Assemblies	Ingress Protection, 2nd characteristic numeral IPX7	IEC 60529, IEC 60950- 22: 2013
167	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Sub - Assemblies	Damp heat cyclic	IEC 60068-2-30:2001, IS 9000 (Part 5/Sec 1&2) - 1981 (RA2016), QM 333 Issue-2:2010 Test No.: 3 JSS 55555:2000 Revision 2 Test 27
168	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electrical, Electronics and Electro-mechanical Sub - Assemblies	Damp Heat steady state	IEC 60068-2-78:2001 IS 9000 (Part 4):2008 (RA2018), QM 333 Issue-2:2010 Test No.:5 JSS 55555:2000 Revision 2 Test 10
169	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic & Electrical equipments, Sub-assemblies	Change of temperature	IEC 60068-2-14:2009 CL.4,5,6,7,8 IS 9000 (Part 14/Sec 1 to 3):1988 (RA2018), QM 333 Issue-2:2010 Test No.4, JSS 55555:2000 Revision 2 Test 22: 2016
170	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic & Electrical equipments, Sub-assemblies	Cold (Low Temperature)	IEC 60068-2-1:2007, IS 9000 (Part 2/Sec 1 to 4):1977 (RA2016), QM 333 Issue-2:2010 Test No.:1, JSS 55555:2000 Revision 2 Test 20
171	ELECTRONICS-ENVIRONMENTAL TEST FACILITY	Electronic & Electrical equipments, Sub-assemblies	Dry Heat (High Temperature)	IEC 60068-2-2:2007, IS 9000 (Part 3/Sec 1 to 5):1977 (RA2016) QM 333 Issue-2:2010 Test No.:2, JSS 55555:2000 Revision 2 Test 17
172	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl No 5.1, Annex D - Touch current and protective conductor current	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
173	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.no.4.2.5 - Impact Test	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/



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174	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.no.4.3.3 - Inspection of Adjustable Controls	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
175	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Electric strength	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2:2013/
176	ELECTRONICS- IT EQUIPMENT	Audio, Video and Similar electronic apparatus	Cl. No 6.1.2 - Separation of telecommunication network from earth	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013
177	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments	Annex EE - Household and Home/office document/media shredders	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013
178	ELECTRONICS- IT EQUIPMENT	Information Technology equipment	Cl.no.2.4 - Limited current circuits measurement test	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
179	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Flammable liquids	Cl 4.3.12 - IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/Cl.2.3.1, 7.2/
180	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments	Endurance Test	Cl. 2.8.7.3 - IS 13252 : Part 1
181	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments	Overload test	Cl. 2.8.7.2 -IS 13252 : Part 1
182	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	2.1.1.6 - Manual Controls	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013
183	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments	Abrasion resistance test	Cl. 2.10.8.4 - IS 13252 : Part 1



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184	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments	Annex DD - Requirements for the mounting means of rack-mounted equipment	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013
185	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	CI No 2.1.1.5 & 2.1.1.8 - Energy hazard measurement test	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
186	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	CI No. 2.1.1.1 - Access to energized parts	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
187	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	CI No. 2.2.2, 2.2.3, 2.2.4 - SELV Circuits measurement test	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
188	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	CI No. 4.5.1, 4.5.2, 4.5.3, 4.5.4 - Thermal requirements	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2:2013/
189	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	CI No. 6.2, 6.2.1, 6.2.2, 6.2.2.2 - Protection of equipment users from overvoltages on telecommunication networks	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
190	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	CI no.4.2.7 - Stress relief test	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
191	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	CI No.4.5.5 - Resistance to abnormal heat	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2:2013/
192	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	CI. No - 6.2.2.1 - Protection of equipment users from overvoltage on telecommunication networks	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013



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193	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl. No 2.1.1.4 - Access to hazardous voltage wiring	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013
194	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl. No 2.1.2 & 2.1.3 - Protection in service access areas/ protection in restricted access area	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/ 2005
195	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments	Cl. No 2.10.5, Annex AA - Solid Insulation	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2:2013
196	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl. No 2.3.3 - Separation from Hazardous Voltages	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013
197	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl. No 3.1.5 - Beads and ceramic insulators	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013
198	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl. No 3.2.2 & 3.2.4 - Multiple supply connections /Appliance inlets	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013
199	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments	Cl. No 3.2.6 & 3.2.8 - Cord anchorage and strain relief	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013
200	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl. No 4.6.5 - Adhesive for constructional purposes	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013
201	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl. No 6.1.1 - Protection from hazardous voltages	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2:2013



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202	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl. No 7.2 - Protection of cable distribution system service persons, and uses of other equipment connected to system, from hazardous voltage in the equipment	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013
203	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments	Cl. No. 2.10.3.5 - Clearance in circuits having starting pulses	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013
204	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl. No. 2.3.1 & Annex M - TNV circuits limits measurement test	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
205	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl. No. 3.3 - Wiring terminals for connection of external conductors	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013
206	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl. No. 6.3 - Protection of the telecommunication wiring system from overheating	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013
207	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.7.4, 7.4.2, 7.4.3, Annex N - Insulation between primary circuits and cable distribution systems (Voltage surge test)	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
208	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.No - 3.1.1 - Current rating and over current protection	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013
209	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.No 2.3.2, 2.3.2.1, 2.3.2.2, 2.3.2.3, 2.3.2.4 - Separation of TNV circuits from other circuits and from accessible parts	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013





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210	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments	Cl.No 2.3.4 - Connection of TNV circuits to other circuits	S 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013
211	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.No 3.1.4 - Insulation of conductors	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013
212	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.No 3.1.9 - Termination of Conductors	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013
213	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.No 4.6 - Openings in enclosures	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
214	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.No 7.3 - Protection of equipments users from over voltage on the cable distribution system	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013
215	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.no. 2.10.3.9 - Measurement of Transient Voltages (a. Transients from Mains supply)	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
216	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.no. 2.6.3.1, 2.6.3.2, 2.6.3.3, 2.6.3.4, 2.6.3.5 - Protective earthing conductors and protective bonding conductors	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
217	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.No. 2.7.3 & 2.7.4 - Short-Circuit backup protection / Number and location of protective devices	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013
218	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.no. 2.8.1, 2.8.2, 2.8.3, 2.8.6 - Protection requirements for safety interlocks	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/



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219	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.no. 4.2.1, 4.2.2, 4.2.3, 4.2.4 - Steady force test	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
220	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.no.2.1.1.3 - Access to ELV wiring	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
221	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.no.2.1.1.7 - Discharge of capacitors in equipments	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
222	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.no.2.10.2 - Determination of working voltage	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
223	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.no.2.10.3, Annex F & G - Clearances	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
224	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.no.2.10.3.9 - b. Transients from Telecommunication network	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2:2013/
225	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.no.2.10.4, Annex F - Creepage distances	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
226	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments	Cl.no.2.3.5 - Test for operating voltages generated externally	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013
227	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.no.2.5 - Limited power sources measurement test	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/



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228	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.no.2.9.2 - Humidity conditioning	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
229	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.no.4.1 - Stability	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
230	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.no.4.2.10 - Force test for Wall or ceiling mounted equipment	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
231	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.no.4.2.6 - Drop test	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
232	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.no.4.3.1 - Inspection of Edges and corners	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
233	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.no.4.3.2 - Force test for Handles and manual control	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
234	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.no.4.3.4 -Creepage and clearance measurement for Securing of parts	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
235	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.no.4.3.5 - Connection by plugs and sockets	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
236	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.no.4.3.6 -Torque test for Direct plug-in equipment	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/



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237	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.no.4.3.7 - Heating elements in earthed equipments	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
238	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.no.4.3.8 - Data evaluation for Batteries	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2:2013/
239	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.no.4.3.9 - Data evaluation for Oil and grease	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2:2013/
240	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.no.4.4 - Protection against hazardous moving parts	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2:2013/
241	ELECTRONICS- IT EQUIPMENT	Information Technology equipments	Cl.no.5.3, Annex B & C - Abnormal operating and fault conditions	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
242	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments	Electric strength test	Cl. 2.10.8.3 - IS 13252 : Part 1
243	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments	Moving Parts	Cl. 2.8.5 - IS 13252 : Part 1
244	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments	Tests for semiconductor devices and for cemented joints	Cl. No. 2.10.11 - IS 13252 : Part 1
245	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments	Thermal Conditioning	Cl. 2.10.8.2 - IS 13252 : Part 1
246	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments	Thermal cycling	Cl. 2.10.9 - IS 13252 : Part 1
247	ELECTRONICS- IT EQUIPMENT	IT Equipment	Cl. No 1.7.11 - Durability	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/



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248	ELECTRONICS- IT EQUIPMENT	IT Equipment	Cl.no.1.6.2 - Input current Measurement Test	IS 13252 part 1 : 2010 A1:2013 + A2: 2015 / UL 60950-1:2017 / CSA C22.2 No.60950-1-07/IEC 60950-1:2005 & A1:2009 + A2: 2013/
249	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Construction Details - Openings	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 7.4.2)
250	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Limited Current circuits	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 5.2.3) (Clause 2.4/RD)
251	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	(Cl.: 7, 7.2) - Protection against electric shock & Energy Hazard	IS 16221 (Part 2):2015/ IEC 62109-2: 2011(Cl.:7) IS 16221 (Part 1):2016/ IEC 62109-1 Ed. 1.0 2010-04
252	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl 4.4 - Testing in single fault condition	IS 16221(Part 1):2016 IEC 62109-1: 2010 Cl.4.4
253	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 4.4.4.15.2.2 - Fault-Tolerance of Automatic Disconnecting Means	IS 16221(Part 2):2015 IEC 62109-2: 2011 (Cl. 4.4.4.15.2.2)
254	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 4.4.4.15.2.3 - Automatic Checking of the Disconnect Means	IS 16221(Part 2):2015 IEC 62109-2: 2011(Cl. 4.4.4.15.2.3)
255	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 4.4.4.16 - Standalone inverters - load transfer tests	IS 16221(Part 2):2015 IEC 62109-2: 2011 (Cl. 4.4.4.16)
256	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 4.4.4.17 - Cooling system failure - Blanketing test	IS 16221(Part 2):2015 IEC 62109-2: 2011 (Cl. 4.4.4.17)
257	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 4.7.4 - Stand-alone Inverter AC output voltage and frequency	IS 16221(Part 2):2015 IEC 62109-2: 2011
258	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 4.7.5 - Stand-alone Inverter output voltage waveform	IS 16221(Part 2):2015 IEC 62109-2: 2011
259	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 4.8.2.1, 4.8.2.2 - Array insulation resistance detection for inverters for ungrounded arrays	IS 16221(Part 2):2015 IEC 62109-2: 2011
260	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 4.8.3.2 - 30 mA touch current type test for isolated inverters	IS 16221(Part 2):2015 IEC 62109-2: 2011
261	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 4.8.3.3 - Fire hazard residual current type test for isolated inverters	IS 16221(Part 2):2015 IEC 62109-2: 2011



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262	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 4.8.3.5, 4.8.3.5.1, 4.8.3.5.2, 4.8.3.5.3 - Protection By application of RCD's	IS 16221(Part 2):2015 IEC 62109-2: 2011
263	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 5 - Marking and Documentation	IS 16221(Part 2):2015 IEC 62109-2: 2011
264	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 5.1.2 - Durability of markings	IS 16221(Part 1):2016 IEC 62109-1: 2010 Cl.5.1.2
265	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 5.1.3 - Identification	IS 16221(Part 1):2016 IEC 62109-1: 2010 Cl.5.1.3
266	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 5.1.4 - Equipment's Ratings	IS 16221(Part 1):2016 IEC 62109-1: 2010 Cl.5.1.4
267	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 7.3.6.2 - Insulation Between Live Parts and Accessible Conductive Parts	IS 16221(Part 1):2016 IEC 62109-1: 2010
268	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 7.3.6.3 - Protective Class I - Protective bonding and earthing	IS 16221(Part 1):2016 IEC 62109-1: 2010
269	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 7.3.6.3.7 - External Protective Earthing Conductor	IS 16221(Part 1):2016 IEC 62109-1: 2010
270	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 7.3.7, 7.3.7.1.2 - Insulation Including Clearance and Creepage distances	IS 16221(Part 1):2016 IEC 62109-1: 2010
271	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 7.3.7.4 - Clearance Distances	IS 16221(Part 1):2016 IEC 62109-1: 2010
272	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 7.3.7.5 - Creepage Distances	IS 16221(Part 1):2016 IEC 62109-1: 2010
273	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 7.3.7.8.2 - Requirements for Electrical Withstand Capability of Solid Insulation	IS 16221(Part 1):2016 IEC 62109-1: 2010
274	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 7.3.7.8.3 - Thin sheet or tape material	IS 16221(Part 1):2016 IEC 62109-1: 2010: 2016
275	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 7.3.8 - Residual Current Detection (RCD) or Monitoring (RCM) device compatibility	IS 16221(Part 1):2016 IEC 62109-1: 2010
276	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 7.3.9 - Protection against shock hazard due to stored energy	IS 16221(Part 1):2016 IEC 62109-1: 2010
277	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 7.4 - Protection against energy hazards	IS 16221(Part 1):2016 IEC 62109-1: 2010



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278	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 7.5.1- Impulse Voltage Test	IS 16221(Part 1):2016 IEC 62109-1: 2010
279	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 7.5.2 - Voltage Test	IS 16221(Part 1):2016 IEC 62109-1: 2010
280	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 7.5.3 - Partial Discharge test	IS 16221(Part 1):2016 IEC 62109-1: 2010
281	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 7.5.4 - Touch current measurement	IS 16221(Part 1):2016 IEC 62109-1: 2010
282	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 7.5.5 - Equipment's with multiple sources of supply	IS 16221(Part 1):2016 IEC 62109-1: 2010
283	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 8.2 - Moving Parts	IS 16221(Part 1):2016 IEC 62109-1: 2010
284	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 8.3 - Stability	IS 16221(Part 1):2016 IEC 62109-1: 2010
285	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 8.4 - Provisions for tilting and carrying	IS 16221(Part 1):2016 IEC 62109-1: 2010
286	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 8.5 - Wall Mounting	IS 16221(Part 1):2016 IEC 62109-1: 2010 Cl. 8.5
287	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 8.6 - Expelled Parts	IS 16221(Part 1):2016 IEC 62109-1: 2010
288	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl. 9.1.1, 9.1.2, 9.1.3 - Protection against fire	IS 16221(Part 1):2016 IEC 62109-1: 2010
289	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.:13 - Physical requirement	IS 16221 (Part 2):2015/ IEC 62109-2: 2011 (Cl.:13) IS 16221 (Part 1):2016/ IEC 62109-1 Ed. 1.0 2010-04, (Cl.: 13.1,13.2,13.3,13.4,13.5,13.6, 13.7,13.8)
290	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.:8 - Protection against mechanical hazards	IS 16221 (Part 2):2015/ IEC 62109-2: 2011
291	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.:9 - Protection against Fire Hazards	IS 16221 (Part 2):2015/ IEC 62109-2: 2011
292	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.11 - Protection against liquid hazards	IS 16221(Part 1):2016 IEC 62109-1: 2010 Cl.11
293	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.11 & Cl.12 - Protection against liquid hazards & Chemical hazards	IS 16221 (Part 2):2015/ IEC 62109-2: 2011 IS 16221 (Part 1):2016/ IEC 62109-1 Ed. 1.0 2010-04: 2015
294	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.12 - Chemical Hazard	IS 16221(Part 1):2016 IEC 62109-1: 2010



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295	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.13.1 - Handles and Manual controls	IS 16221(Part 1):2016 IEC 62109-1: 2010
296	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.13.2 - Securing of parts	IS 16221(Part 1):2016 IEC 62109-1: 2010
297	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.13.3.2 - Connection to an a.c mains supply	IS 16221(Part 1):2016 IEC 62109-1: 2010
298	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.13.3.2.5 - Cord anchorages and strain relief	IS 16221(Part 1):2016 IEC 62109-1: 2010
299	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.13.3.3 - Wiring terminals for connection of external conductors	IS 16221(Part 1):2016 IEC 62109-1: 2010
300	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.13.3.4 - Supply wiring space	IS 16221(Part 1):2016 IEC 62109-1: 2010
301	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.13.3.6 - Disconnection from supply sources	IS 16221(Part 1):2016 IEC 62109-1: 2010
302	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.13.3.7 - Connectors, Plugs and Sockets	IS 16221(Part 1):2016 IEC 62109-1: 2010
303	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.13.3.8 - Direct plug-in equipment	IS 16221(Part 1):2016 IEC 62109-1: 2010
304	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.13.4 - Internal wiring and connections	IS 16221(Part 1):2016 IEC 62109-1: 2010
305	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.13.5 - Openings in enclosure	IS 16221(Part 1):2016 IEC 62109-1: 2010
306	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.13.6.2.1 - Stress relief Test	IS 16221(Part 1):2016 IEC 62109-1: 2010
307	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.13.7 - Mechanical resistance to deflection, impact, or drop	IS 16221(Part 1):2016 IEC 62109-1: 2010
308	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.13.8 - Thickness requirement for metal enclosures	IS 16221(Part 1):2016 IEC 62109-1: 2010
309	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.4.3 - Thermal Testing	IS 16221(Part 1):2016 IEC 62109-1: 2010 Cl.4.3
310	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.4.5 - Humidity preconditioning	IS 16221(Part 1):2016 IEC 62109-1: 2010 Cl.4.5
311	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.4.6 - Back-feed voltage protection	IS 16221(Part 1):2016 IEC 62109-1: 2010 (Cl.4.6)
312	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.4.7 - Electrical ratings tests	IS 16221(Part 1):2016 IEC 62109-1: 2010 Cl.4.7





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313	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.5 - Marking and Documentation	IS 16221(Part 1):2016 IEC 62109-1: 2010 Cl.5
314	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.5.1.5 - Fuse Identification	IS 16221(Part 1):2016 IEC 62109-1: 2010 Cl.5.1.5
315	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.5.1.6 - Terminals, Connections and controls	IS 16221(Part 1):2016 IEC 62109-1: 2010
316	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.5.1.7 - Switches and Circuit breakers	IS 16221(Part 1):2016 IEC 62109-1: 2010 Cl.5.1.7
317	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.5.1.8 - Class II Equipment	IS 16221(Part 1):2016 IEC 62109-1: 2010 Cl.5.1.8
318	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.5.1.9 - Terminal boxes for external connections	IS 16221(Part 1):2016 IEC 62109-1: 2010 Cl.5.1.9
319	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.5.2 - Warning Markings	IS 16221(Part 1):2016 IEC 62109-1: 2010 Cl.5.2
320	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.5.3 - Documentation	IS 16221(Part 1):2016 IEC 62109-1: 2010 Cl.5.3
321	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.6, 6.1, 6.2, 6.3 - Environmental Categories and minimum environmental conditions	IS 16221(Part 1):2016 IEC 62109-1: 2010 Cl.6, 6.1, 6.2, 6.3
322	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.6, 6.1, 6.2, 6.3 - Environmental Categories and minimum environmental conditions	IS 16221(Part 2):2015 IEC 62109-2: 2011
323	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.7.2 - Protection against Electric Shock and Energy Hazards -Fault conditions	IS 16221(Part 1):2016 IEC 62109-1: 2010 Cl.7.2
324	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.7.3.2.6 - Protection against Electric Shock and Energy Hazards - Working voltage and DVC	IS 16221(Part 1):2016 IEC 62109-1: 2010 Cl.7.3.2.6
325	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.7.3.4.2.3 - Protection against Electric Shock and Energy Hazards - Access Probe tests	IS 16221(Part 1):2016 IEC 62109-1: 2010 Cl.7.3.4.2.3
326	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.7.3.4.2.4 - Protection against Electric Shock and Energy Hazards - Service access areas	IS 16221(Part 1):2016 IEC 62109-1: 2010
327	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.7.3.4.3 - Protection by means of Insulation of live parts	IS 16221(Part 1):2016 IEC 62109-1: 2010



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328	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.7.3.5.3.1 - Limitation of Current Through Protective Impedance	IS 16221(Part 1):2016 IEC 62109-1: 2010
329	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.7.3.5.3.2 - Limitation of discharging energy through protective impedance	IS 16221(Part 1):2016 IEC 62109-1: 2010
330	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.9.1.4 - Openings in enclosure	IS 16221(Part 1):2016 IEC 62109-1: 2010 Cl.9.1.4
331	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.9.2 - Limited Power Sources	IS 16221(Part 1):2016 IEC 62109-1: 2010
332	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power converters for use in Photovoltaic Power Systems	Cl.9.3 - Short-Circuit and overcurrent protection	IS 16221(Part 1):2016 IEC 62109-1: 2010 Cl.9.3
333	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Capacity Test	BEE schedule 17: 2016/ IS 13314
334	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Cl.7.11 - Total Harmonic Distortion	BEE schedule 17: 2016/ IS 13314
335	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Cl.7.6 - High Voltage Test	BEE schedule 17: 2016/ IS 13314
336	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Cl.7.7 - Insulation resistance Test	BEE schedule 17: 2016/ IS 13314
337	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Cl.7.8,7.8.1,7.8.2 - No-Load test	BEE schedule 17: 2016/ IS 13314
338	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Cl.7.9.3 - Efficiency	BEE schedule 17: 2016/ IS 13314
339	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Power Factor	BEE schedule 17: 2016/ IS 13314
340	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Abnormal operating and fault conditions	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 8.3, 8.3.1, 8.3.2, 8.3.3, Annex B & C) (Clause 5.3/RD)
341	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	AC and d.c. power isolation	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 5.4) (Clause 3.4/RD)
342	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Backfeed Protection	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 5.1.4 and Annex I)
343	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Battery	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 4.7.20) (Clause 2.1.1.5/RD)



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344	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Case insulation	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 7.6.4)
345	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Clause 6.1 - Wiring connections and supply	IEC 62040-1: 2008 IS 16242(Part 1):2014
346	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Clause 7.4.1, Annex E - Construction Details	IEC 62040-1: 2008 IS 16242(Part 1):2014
347	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Clearances, creepage distances and distances through insulation	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 5.7, Annex F & G) (Clause 2.10/RD)
348	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Connection to Power - General provisions for connection to power	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 6.2.1) (Clause 3.2/RD)
349	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Connection to telecommunication networks	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 9) (Clause 6/RD, 3.5/RD)
350	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Durability of markings	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 4.7.16) (Clause 1.7.11/RD)
351	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Equipment movement	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 7.4.4)
352	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	External Signaling Circuit	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 5.2.4) (Clause 3.5/RD)
353	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	General provisions for earth leakage	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 8.1, Annex D) (Clause 5.1.1/RD)
354	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Limited Power sources	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 5.2.5) (Clause 2.5/RD)
355	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Mechanical Strength	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 7.3) (Clause 4.2/RD)
356	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Over current and earth fault protection	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 5.5) (Clause 2.7/RD)
357	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Power Interfaces	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 4.6, Annex L) (Clause 1.6.2/RD)



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358	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Protection for UPS intended to be used in operator access areas	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 5.1.1) (Clause 2.1.1/RD)
359	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Protection for UPS intended to be used in restricted access areas	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 5.1.3) (Clause 2.1.1.5/RD)
360	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Protection for UPS intended to be used in service access areas	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 5.1.2) (Clause 2.1.1.5/RD)
361	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Protective bonding	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 5.3.3) (Clause 2.6/RD)
362	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Protective earthing	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 5.3.2) (Clause 2.6/RD)
363	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Protective earthing and protective bonding	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 5.3.1) (Clause 2.5/RD)
364	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Resistance to fire	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 7.5) (Clause 4.7/RD)
365	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Safety extra low voltage circuits - SELV	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 5.2.1) (Clause 2.2/RD)
366	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Stability	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 7.2) (Clause 4.1/RD)
367	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Telephone network voltage circuits - TNV	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 5.2.2) (Clause 2.3/RD)
368	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Temperature rise	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 7.7) (Clause 4.5/RD)
369	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Verification of Markings and Instructions	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 4.7)
370	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS)	Wiring terminals for external power conductors	IEC 62040-1: 2008 IS 16242(Part 1):2014 (Clause 6.3) (Clause 3.2/RD)
371	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS / INVERTER	Clause No:5.6 - Protection of Personnel - Safety Interlocks	IS 16242 (Part 1)



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372	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS / INVERTERS	Clause No:5.6 - Protection of Personnel - Safety Interlocks	IEC 62040-1
373	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS / INVERTERS	Clause No:8.2 - Electric strength	IEC 62040-1
374	ELECTRONICS- POWER SUPPLIES & STABILIZERS	UPS / Inverters	Clause No:8.2 - Electric strength	IS 16242(Part 1)
375	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Utility-Interconnected Photovoltaic Inverters	Clause 6 -Test for Single or Multi-Phase Inverter	IS 16169:2019 (Clause. 6) IEC 62116:2014 (Clause. 6)
376	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Utility-Interconnected Photovoltaic Inverters	Clause 7 - Documentation	IS 16169:2019 (Clause. 7) IEC 62116:2014 (Clause. 7)
377	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 4.2) - Energy Source Classifications	IEC 62368-1 (ed 3:2018) (Clause 4.2)
378	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 4.4.3.2, Annex T3, T5) - Steady force tests	IEC 62368-1 (ed 3:2018)
379	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 4.4.3.3, Annex T7) - Drop Tests	IEC 62368-1 (ed 3:2018)
380	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 4.4.3.4, Annex T6) - Impact test	IEC 62368-1 (ed 3:2018)
381	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 4.4.3.6, Annex T9) - Glass Impact Test	IEC 62368-1 Ed 3:2018
382	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 4.4.3.7, Annex T9) - Glass fixation test	IEC 62368-1 ed 3:2018
383	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 4.4.3.8, Annex T8) - Thermoplastic material test	IEC 62368-1 ed 3:2018
384	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 4.4.3.9, Annex T) - Air comprising a safeguard	IEC 62368-1 ed 3:2018
385	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 4.4.5, Annex K) - Safety Interlocks	IEC 62368-1 ed 3:2018
386	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 4.6) - Fixing of Conductors	IEC 62368-1 (ed 3:2018)
387	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 4.7) - Equipment for direct insertion in to mains socket-outlets	IEC 62368-1 (ed 3:2018)
388	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 4.8.4.6) - Crush test	IEC 62368-1(ed 3:2018)
389	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 4.8.5) - Compliance criteria (Force test)	IEC 62368-1 (ed 3:2018)



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390	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 5.4.10.1) - Safeguards against transient voltages from external circuits (Requirements)	IEC 62368-1 (ed 3:2018)
391	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 5.4.10.2.2) - Impulse test	IEC 62368-1 (ed 3:2018)
392	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 5.4.10.2.3) - Steady-state test (electric strength test)	IEC 62368-1 (ed 3:2018)
393	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 5.4.10.3) - Compliance criteria (IR tester)	IEC 62368-1 (ed 3:2018)
394	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 5.4.4.5) - Insulating compound forming cemented joints	IEC 62368-1 (ed 3:2018)
395	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 5.4.4.6.1, 5.4.4.6.2, 5.4.4.6.3, 5.4.4.6.4) - Thin sheet material	IEC 62368-1 (ed 3:2018)
396	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 5.4.4.6.5) -Mandrel test	IEC 62368-1 (ed 3:2018)
397	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 5.4.4.7) -Solid insulation in wound components	IEC 62368-1 (ed 3:2018)
398	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 5.4.4.8) - Compliance criteria	IEC 62368-1 (ed 3:2018)
399	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 5.4.5.2) - Antenna Terminal Insulation- Test Method	IEC 62368-1 (ed 3:2018)
400	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 5.4.6) - Insulation of internal wire	IEC 62368-1 (ed 3:2018)
401	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 5.4.8) - Humidity conditioning	IEC 62368-1 (ed 3:2018)
402	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 5.5) - Components as safeguard	IEC 62368-1 (ed 3:2018)
403	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 5.6.3) - Requirements for Protective earthing conductors	IEC 62368-1 (ed 3:2018)
404	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 5.6.4, 5.6.6) - Resistance of the Protective Bonding System (Earth bond test)	IEC 62368-1 (ed 3:2018)



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405	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 5.6.5) - Terminals for protective conductors	IEC 62368-1 (ed 3:2018)
406	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 5.6.7) - Reliable connection of a protective earthing conductor	IEC 62368-1 (ed 3:2018)
407	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(Clause 8.12 & Annex T.11) - Telescoping or rod antennas	IEC 62368-1 (ed 3:2018)
408	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(clause no. 4.8.4.2) - Stress relief test	IEC 62368-1 (ed 3:2018)
409	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(clause no. 4.8.4.3) - Battery replacement test	IEC 62368-1 (ed 3:2018)
410	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(clause no. 4.8.4.4) - Drop test	IEC 62368-1 (ed 3:2018)
411	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	(clause no. 4.8.4.5) - Impact test	IEC 62368-1 (ed 3:2018)
412	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Annex F - Equipment markings, instructions, and instructional safeguards	IEC 62368-1 (ed 3:2018)
413	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Annex B.2.5 - Input test	IEC 62368-1 (ed 3:2018)
414	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Annex B.3 - Simulated abnormal operating conditions	IEC 62368-1 (ed 3:2018)
415	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Annex B.4 - Simulated single fault conditions	IEC 62368-1 (ed 3:2018)
416	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Annex D - Test Generator	IEC 62368-1 (ed 3:2018)
417	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Annex G.5.3 - Transformers	IEC 62368-1 (ed 3:2018)
418	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Annex G.5.4 - Motors	IEC 62368-1 (ed 3:2018)
419	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Annex G.7.2 - Main supply cords (Cross sectional area)	IEC 62368-1 (ed 3:2018)
420	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Annex G.7.3 - Cord anchorages and strain relief for non detachable power supply cords	IEC 62368-1 (ed 3:2018)
421	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Annex G.7.4 - Cord entry	IEC 62368-1 (ed 3:2018)
422	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Annex G.7.5 - Non-detachable cord bend protection	IEC 62368-1 (ed 3:2018)



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423	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Annex G.7.6.1 - Supply wiring spaces	IEC 62368-1 (ed 3:2018)
424	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Annex H - Criteria for telephone ringing signals (TNV circuit test)	IEC 62368-1 (ed 3:2018)
425	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Annex K -Safety interlocks	IEC 62368-1 (ed 3:2018)
426	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Annex L - Disconnect devices	IEC 62368-1 (ed 3:2018)
427	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Annex P - Safeguards against conductive objects	IEC 62368-1 (ed 3:2018)
428	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Annex Q - Circuits intended for interconnection with building wiring	IEC 62368-1 (ed 3:2018)
429	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Annex T.1,T.2,T.3,T.4 &T5 - Mechanical strength tests	IEC 62368-1 (ed 3:2018)
430	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Annex T.10 - Glass fragmentation test	IEC 62368-1 (ed 3:2018)
431	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Annex T.6 & T.9 - Enclosure impact test	IEC 62368-1 (ed 3:2018)
432	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Annex T.7 - Drop test	IEC 62368-1 (ed 3:2018)
433	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Annex T.8 - Stress relief test	IEC 62368-1 (ed 3:2018)
434	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Annex V - Determination of accessible parts	IEC 62368-1 (ed 3:2018)
435	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause - 8.5.4: Special Categories of equipment containing moving parts	IEC 62368-1
436	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 4.1.3 - Equipment design and construction	IEC 62368-1 ed 3:2018
437	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 4.3 - Protection Against Energy Sources	IEC 62368-1 (ed 3:2018)
438	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 4.4.3.10, Annex T10 - Compliance criteria	IEC 62368-1 ed 3:2018
439	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 4.4.3.5, Annex T3 - Internal accessible safeguard test	IEC 62368-1 ed 3:2018





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440	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 4.5, Annex M - Explosion	IEC 62368-1 ed 3:2018
441	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 5.3.2.1 - Accessibility to electrical energy sources and safeguards- Requirements	IEC 62368-1 (ed 3:2018)
442	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 5.3.2.2 - Contact requirements	IEC 62368-1 (ed 3:2018)
443	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 5.3.2.3 - Compliance criteria	IEC 62368-1 (ed 3:2018)
444	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 5.3.2.4 - Terminals for connecting stripped wire	IEC 62368-1 (ed 3:2018)
445	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 5.4.1.10.3 - Ball pressure test	IEC 62368-1 (ed 3:2018)
446	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 5.4.1.3 - Compliance criteria (humidity treatment)	IEC 62368-1 (ed 3:2018)
447	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 5.4.1.4 - Maximum operating temperature (Temperature measurement)	IEC 62368-1 (ed 3:2018)
448	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 5.4.1.6 - Insulation in transformers with varying dimensions	IEC 62368-1 (ed 3:2018)
449	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 5.4.1.7 - Insulation in circuits generating starting pulses	IEC 62368-1 (ed 3:2018)
450	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 5.4.1.8 - Determination of working voltage	IEC 62368-1 (ed 3:2018)
451	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 5.4.2, 5.4.3 & Annex O- Clearance, creepage	IEC 62368-1 (ed 3:2018)
452	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 5.4.4.1 - Solid insulation - General requirements	IEC 62368-1 (ed 3:2018)
453	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 5.4.4.2 - Minimum distance through insulation	IEC 62368-1 (ed 3:2018)
454	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 5.4.4.3 - Insulating compound forming solid insulation	IEC 62368-1 (ed 3:2018)
455	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 5.4.4.4 - Solid insulation in semiconductor devices	IEC 62368-1 (ed 3:2018)
456	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 5.4.5.3 - Antenna Terminal Insulation- Compliance criteria	IEC 62368-1 (ed 3:2018)



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457	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 5.4.7 - Tests for semiconductor components and for cemented joints	IEC 62368-1 (ed 3:2018)
458	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 5.4.9 - Electric strength test	IEC 62368-1 (ed 3:2018)
459	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 5.6.8 - Functional earthing	IEC 62368-1 (ed 3:2018)
460	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 5.7 - Prospective touch voltage, touch current and protective conductor current	IEC 62368-1 (ed 3:2018)
461	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 5.8 - Backfeed safeguard in battery backed up supplies	IEC 62368-1 (ed 3:2018)
462	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 6.2.2 - Power source circuit classification	IEC 62368-1 (ed 3:2018)
463	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 6.2.3 - Classification of potential ignition source	IEC 62368-1 (ed 3:2018)
464	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 6.3 - Safeguards against fire under normal operating conditions and abnormal operating conditions	IEC 62368-1 (ed 3:2018)
465	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 6.4.3 - Reduction of the likelihood of ignition under single fault conditions in PS2 circuits and PS3 circuits	IEC 62368-1 (ed 3:2018)
466	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 6.4.5 - Control of fire spread in PS2 circuits	IEC 62368-1 (ed 3:2018)
467	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 6.4.6 - Control of fire spread in PS3 circuits	IEC 62368-1 (ed 3:2018)
468	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 6.4.7 - Separation of combustible materials from a PIS	IEC 62368-1 (ed 3:2018)
469	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 6.4.8.3 - Constructional requirements for a Fire enclosures and fire barrier	IEC 62368-1 (ed 3:2018)
470	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 6.5 - Internal and external wiring	IEC 62368-1 (ed 3:2018)
471	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 6.6 - Safeguards against fire due to the connection of additional equipment	IEC 62368-1 (ed 3:2018)



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472	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 7 - Injury caused by hazardous substances	IEC 62368-1 (ed 3:2018)
473	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 8.10.3 - Cart, stand or carrier loading test	IEC 62368-1 (ed 3:2018)
474	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 8.10.4 - Cart, stand or carrier impact test	IEC 62368-1 (ed 3:2018)
475	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 8.10.6 - Thermoplastic temperature stability	IEC 62368-1 (ed 3:2018)
476	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 8.11 - Mounting means for rack mounted equipment	IEC 62368-1 (ed 3:2018)
477	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 8.2 - Mechanical energy source classification	IEC 62368-1 (ed 3:2018)
478	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 8.4 -Safeguards Against Parts with Sharp Edges and Corners	IEC 62368-1 (ed 3:2018)
479	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 8.5.3 - Compliance criteria (Safeguards Against moving parts)	IEC 62368-1 (ed 3:2018)
480	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 8.6.2 - Static stability	IEC 62368-1 (ed 3:2018)
481	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 8.6.3 - Relocation stability	IEC 62368-1 (ed 3:2018)
482	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 8.6.4 - Glass side test	IEC 62368-1 (ed 3:2018)
483	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 8.6.5 - Horizontal force test	IEC 62368-1 (ed 3:2018)
484	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 8.7 - Equipment mounted to a wall or ceiling	IEC 62368-1 (ed 3:2018)
485	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 8.8 - Handle strength	IEC 62368-1 (ed 3:2018)
486	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 8.9 - Wheels or casters attachment requirement	IEC 62368-1 (ed 3:2018)
487	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 9.2 - Thermal energy classification	IEC 62368-1 (ed 3:2018)
488	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 9.3 - Touch Temperature limit	IEC 62368-1 (ed 3:2018)
489	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 9.6 - Requirements for wireless power transmitters	IEC 62368-1 (ed 3:2018)



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	REACT LABORATORIES, 3411, 3RD FLOOR, SERVICE ROAD VIJAYANAGAR, BENGALURU, KARNATAKA, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
<b>Certificate Number</b>	TC-8039	<b>Page No</b>	36 of 37
<b>Validity</b>	19/10/2020 to 18/10/2022	<b>Last Amended on</b>	17/12/2021

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
490	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause No. 4.10.1 - Components Requirement (Disconnect device)	IEC 62368-1 (ed 3:2018)
491	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause No. 4.10.2 - Components Requirement (Switches and relays)	IEC 62368-1 (ed 3:2018)
492	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause No. 4.9 - Likelihood of fire or shock due to entry of conductive object	IEC 62368-1 (ed 3:2018)
493	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause No. 5.2 - Classification and limits of electrical energy sources	IEC 62368-1 (ed 3:2018)
494	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause No. 5.4.1.9 - Insulating surfaces	IEC 62368-1 (ed 3:2018)
495	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause No. 5.4.11 - Separation between external circuits and earth	IEC 62368-1 (ed 3:2018)
496	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause No. 5.6.4.3 - Compliance criteria (Measurement of protective bonding conductor)	IEC 62368-1 (ed 3:2018)
497	ELECTRONICS- SAFETY TESTING FACILITY	Audio/Video, Information and Communication Technology Equipment	Clause 8.10.5 - Mechanical stability	IEC 62368-1 (ed 3:2018)
498	ELECTRONICS- SAFETY TESTING FACILITY	Radio Transmitting Equipment	Annex A - Creepage and Clearance distances	IEC 60215 (Edition 4):2016 Annex A IS 10437:2019 Annex A
499	ELECTRONICS- SAFETY TESTING FACILITY	Radio Transmitting Equipment	Cl 5.3 - Fault conditions Tests	IEC 60215 (Edition 4):2016 Cl 5.3 IS 10437:2019 Cl 5.3
500	ELECTRONICS- SAFETY TESTING FACILITY	Radio Transmitting Equipment	Cl 6.3.2 - Resistance To Humidity	IEC 60215 (Edition 4):2016-04 Cl 6.3.2 IS 10437:2019 Cl 6.3.2
501	ELECTRONICS- SAFETY TESTING FACILITY	Radio Transmitting Equipment	Cl 6.3.3 - Resistance to Ingress of Water	IEC 60215 (Edition 4):2016 Cl 6.3.3 IS 10437:2019 Cl 6.3.3
502	ELECTRONICS- SAFETY TESTING FACILITY	Radio Transmitting Equipment	Cl 6.4 - Markings Relevant to Safety	IEC 60215 (Edition 4):2016 Cl 6.4 IS 10437:2019 Cl 6.4
503	ELECTRONICS- SAFETY TESTING FACILITY	Radio Transmitting Equipment	Cl.7.1 - Protection against Harmful electric Shock and Radio -Frequency Skin burns	IEC 60215 (Edition 4):2016 Cl.7.1 IS 10437:2019 Cl 7.1
504	ELECTRONICS- SAFETY TESTING FACILITY	Radio Transmitting Equipment	Cl.7.2 - Earthing	IEC 60215 (Edition 4):2016 Cl.7.2 IS 10437:2019 Cl 7.2



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<b>Certificate Number</b>	TC-8039	<b>Page No</b>	37 of 37
<b>Validity</b>	19/10/2020 to 18/10/2022	<b>Last Amended on</b>	17/12/2021

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505	ELECTRONICS- SAFETY TESTING FACILITY	Radio Transmitting Equipment	Cl.7.3 - Enclosures	IEC 60215 (Edition 4):2016 Cl.7.3 IS 10437:2019 Cl 7.3
506	ELECTRONICS- SAFETY TESTING FACILITY	Radio Transmitting Equipment	Cl.7.4 - Mechanical considerations concerning safety devices	IEC 60215 (Edition 4):2016 Cl.7.4 IS 10437:2019 Cl 7.4
507	ELECTRONICS- SAFETY TESTING FACILITY	Radio Transmitting Equipment	Cl.7.5 -Wiring and termination	IEC 60215 (Edition 4):2016 Cl.7.4 IS 10437:2019 Cl 7.4
508	ELECTRONICS- SAFETY TESTING FACILITY	Radio Transmitting Equipment	Cl.7.6 - Insulation	IEC 60215 (Edition 4):2016 Cl.7.6 IS 10437:2019 Cl 7.6
509	ELECTRONICS- SAFETY TESTING FACILITY	Radio Transmitting Equipment	Cl.7.7 - Voltages at the radio-frequency output connection	IEC 60215 (Edition 4):2016 Cl.7.7 IS 10437:2019 Cl 7.7
510	ELECTRONICS- SAFETY TESTING FACILITY	Radio Transmitting Equipment	Cl.8.2 - High Temperatures	IEC 60215 (Edition 4):2016 Cl.8.2 IS 10437:2019 Cl8.2
511	ELECTRONICS- SAFETY TESTING FACILITY	Radio Transmitting Equipment	Cl.8.3 - Fire	IEC 60215 (Edition 4):2016 Cl.8.3 IS 10437:2019 Cl8.3
512	ELECTRONICS- SAFETY TESTING FACILITY	Radio Transmitting Equipment	Cl.8.4.2 - Implosion	IEC 60215 (Edition 4):2016 Cl.8.4.2 IS 10437:2019 Cl8.4.2