National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : AMARA RAJA BATTERIES LTD., TESTING AND CALIBRATION LABORATORY, KARAKAMBADI RENIGUNTA KADAPA ROAD, TIRUPATI, CHITTOOR, ANDHRA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

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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	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Charge Acceptance Test	GSO 35, Clause 13.0
2	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Cranking performance test standard temperature	SASO IEC 60095-1, Clause 9.3.1
3	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Cranking performance test very cold climates	SASO IEC 60095-1, Clause 9.3.2
4	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Charge Acceptance Test	JIS D 5301, Clause 10.4
5	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Cold Cranking ampere (CCA) Test	JIS D 5301, Clause 10.3
6	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	High current discharge characteristics (-15°C)	SNI 0038,Clause 8.4.3
7	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Light Load Endurance Test	JIS D 5301, Clause 10.5.a
8	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Terminal strength Test	SNI 0038,Clause 8.4.7
9	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Corrosion Test	SASO IEC 60095-1, Clause 9.6.1.1
10	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor vehicles with light weight & High cranking performance (12Volt up to 200Ah Capacity)	C5 Capacity	IS 14257, Clause 9.3.4
11	ELECTRICAL- CELLS & BATTERIES	Secondary cells and Batteries for solar photovoltaic application (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity	Capacity Test	IS 16270 , Clause 8.1
12	ELECTRICAL- CELLS & BATTERIES	VRLA Batteries for 110V train lighting ,Air conditioned and LHB coaches (2V ,6V & 12 Volts up to 1100Ah Capacity)	Permissible discharge current Test	RDSO/PE/SPEC/AC/0009-(Rev.2), Clause 5.15
13	ELECTRICAL- CELLS & BATTERIES	Battery operated vehicles-Safety requirements of traction batteries (1V to 120 Volts & up to 200Ah Capacity)	Penetration Test	AIS-048, Clause 2.2.4
14	ELECTRICAL- CELLS & BATTERIES	Battery operated vehicles-Safety requirements of traction batteries (1V to 120 Volts & up to 200Ah Capacity)	Roll Over Test	AIS-048, Clause 2.2.3
15	ELECTRICAL- CELLS & BATTERIES	Battery operated vehicles-Safety requirements of traction batteries (1V to 120 Volts & up to 200Ah Capacity)	Shock Test	AIS-048, Clause 2.2.2
16	ELECTRICAL- CELLS & BATTERIES	Battery operated vehicles-Safety requirements of traction batteries (12V & 48 Volts up to 200Ah Capacity)	Overcharge Test	AIS-048, Clause 2.1.2
17	ELECTRICAL- CELLS & BATTERIES	Battery operated vehicles-Safety requirements of traction batteries (12V & 48 Volts up to 200Ah Capacity)	Penetration Test	AIS-048, Clause 2.2.4

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18	ELECTRICAL- CELLS & BATTERIES	Battery operated vehicles-Safety requirements of traction batteries (12V & 48 Volts up to 200Ah Capacity)	Roll Over Test	AIS-048, Clause 2.2.3
19	ELECTRICAL- CELLS & BATTERIES	Battery operated vehicles-Safety requirements of traction batteries (12V & 48 Volts up to 200Ah Capacity)	Shock Test	AIS-048, Clause 2.2.2
20	ELECTRICAL- CELLS & BATTERIES	Battery operated vehicles-Safety requirements of traction batteries (12V & 48 Volts up to 200Ah Capacity)	Short circuit Test	AIS-048, Clause 2.1.1
21	ELECTRICAL- CELLS & BATTERIES	Battery operated vehicles-Safety requirements of traction batteries (12V & 48 Volts up to 200Ah Capacity)	Vibration Test	AIS-048, Clause 2.2.1
22	ELECTRICAL- CELLS & BATTERIES	Battery operated vehicles-Safety requirements of traction batteries (1V to 120 Volts & up to 200Ah Capacity)	Overcharge Test	AIS-048, Clause 2.1.2
23	ELECTRICAL- CELLS & BATTERIES	Battery operated vehicles-Safety requirements of traction batteries (1V to 120 Volts & up to 200Ah Capacity)	Short circuit Test	AIS-048, Clause 2.1.1
24	ELECTRICAL- CELLS & BATTERIES	Battery operated vehicles-Safety requirements of traction batteries (1V to 120 Volts & up to 200Ah Capacity)	Vibration Test	AIS-048, Clause 2.2.1
25	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity	Construction, Making of polarity	IEC 61056-1, Clause 4.1,4.4
26	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity)	Float service Endurance@25°C	IEC 61056-1 , Clause 5.2.2 & 7.5
27	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity)	Over pressure resistance	IEC 61056-1, Clause 5.8(b) & 7.11.2
28	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity)	Shock resistant characteristics	IEC 61056-1, Clause 5.10 & 7.13
29	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity)	C1 Capacity Test	IEC 61056-1,Clause 5.1
30	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity)	C20 Capacity Test	IEC 61056-1, Clause 5.1 & 7.2
31	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity)	Charge acceptance after deep discharge	IEC 61056-1,Clause 5.5 & 7.9
32	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity)	Charge Retention	IEC 61056-1,Clause 5.3 & 7.7
33	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity)	Construction, Making of polarity	IS 16220 (Part 1), Clause 4.1,4.4
34	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity)	Float service Endurance@40°C	IEC 61056-1, Clause 5.2.2 & 7.6
35	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity)	Gas emission intensity	IEC 61056-1,Clause 5.7 & 7.10.1, 7.10.2
36	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity)	High rate discharge characteristics	IEC 61056-1,Clause 5.6

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37	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity)	Maximum permissible current	IEC 61056-1, Clause 5.4 & 7.8
38	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity)	Vibration resistance characteristics	IEC 61056-1, Clause 5.9 & 7.12
39	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity)	Cycle Service Endurance	IEC 61056-1, Clause 5.2.1 & 7.4
40	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity)	C1 Capacity Test	IS 16220 (Part 1), Clause 5.1
41	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity)	C20 Capacity Test	IS 16220 (Part 1) , Clause 5.1 & 7.2
42	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity)	Charge acceptance after deep discharge	IS 16220 (Part 1) , Clause 5.5 & 7.9
43	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity)	Charge Retention	IS 16220 (Part 1) , Clause 5.3 & 7.7
44	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity)	Cycle Service Endurance	IS 16220 (Part 1) , Clause 5.2.1 & 7.4
45	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity)	Float service Endurance@25°C	IS 16220 (Part 1) , Clause 5.2.2 & 7.5
46	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity)	Float service Endurance@40°C	IS 16220 (Part 1) , Clause 5.2.2 & 7.6
47	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity)	Gas emission intensity	IS 16220 (Part 1) , Clause 5.7 & 7.10.1, 7.10.2
48	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity)	High rate discharge characteristics	IS 16220 (Part 1) ,Clause 5.6
49	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity)	Over pressure resistance	IS 16220 (Part 1) , Clause 5.8(b) & 7.11.2
50	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity)	Shock resistant characteristics	IS 16220 (Part 1) , Clause 5.10 & 7.13
51	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity)	Maximum permissible current	IS 16220 (Part 1) , Clause 5.4 & 7.8
52	ELECTRICAL- CELLS & BATTERIES	General purpose lead acid batteries (Valve regulated types) (6V & 12 Volts up to 200Ah Capacity)	Vibration resistance characteristics	IS 16220 (Part 1) , Clause 5.9 & 7.12
53	ELECTRICAL- CELLS & BATTERIES	Lead acid Batteries for motor cycles (12Volt up to 20Ah Capacity)	C10 Hour Capacity	JIS D 5302, Clause 8.3.2
54	ELECTRICAL- CELLS & BATTERIES	Lead acid Batteries for motor cycles (12Volt up to 20Ah Capacity)	Charging	JIS D 5302, Clause 8.2.2
55	ELECTRICAL- CELLS & BATTERIES	Lead acid Batteries for motor cycles (12Volt up to 20Ah Capacity)	High rate discharge feature	JIS D 5302, Clause 8.3.3

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56	ELECTRICAL- CELLS & BATTERIES	Lead acid Batteries for motor cycles (12Volt up to 20Ah Capacity)	Vibration resistance Test	JIS D 5302, Clause 8.3.4
57	ELECTRICAL- CELLS & BATTERIES	Lead acid Batteries for motor cycles (12Volt up to 20Ah Capacity)	Heavy load life	JIS D 5302, Reference-1
58	ELECTRICAL- CELLS & BATTERIES	Lead acid Batteries for motor cycles (12Volt up to 20Ah Capacity)	Light load life	JIS D 5302, Reference-2
59	ELECTRICAL- CELLS & BATTERIES	Lead acid Batteries for motor cycles (12Volt up to 20Ah Capacity)	Solution depletion feature	JIS D 5302, Reference-3
60	ELECTRICAL- CELLS & BATTERIES	Lead acid Batteries for motor cycles (12Volt up to 20Ah Capacity)	Storage Feature	JIS D 5302, Reference-4
61	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	Heavy Load Endurance Test	JIS D 5301, Clause 9.5.5.b
62	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	High rate discharge characteristics Test (-15°C)	JIS D 5301, Clause 9.5.3.b
63	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	5h rate Capacity Test C5,e	JIS D 5301, Clause 9.5.2.b
64	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	Charge Acceptance Test	JIS D 5301, Clause 9.5.4
65	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	Cold Cranking ampere (CCA) Test	JIS D 5301, Clause 9.5.3.a
66	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	Electrolyte retention Test	JIS D 5301,Anex - 3
67	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	Light Load Endurance Test	JIS D 5301, Clause 9.5.5.a
68	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	Water Consumption Test	JIS D 5301,Anex - 2
69	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Cycling Test-1	IEC 60095-1, Clause 9.6.2
70	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Corrosion Test	IEC 60095-1, Clause 9.6.1
71	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Cycling Test-2	IEC 60095-1, Clause 9.6.3
72	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Cycling Test-4	IEC 60095-1, Clause 9.6.5
73	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	C20 Hour Capacity	IEC 60095-1, Clause 9.1
74	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Charge Acceptance Test	IEC 60095-1,Clause 9.4

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75	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Charge retention Test	IEC 60095-1
76	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Charging	IEC 60095-1, Clause 8.2.1
77	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Cranking performance Test	IEC 60095-1, Clause 9.3.1
78	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Cranking performance Test	IEC 60095-1, Clause 9.3.2
79	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Reserve Capacity test	IEC 60095-1, Clause 9.2
80	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	Dimensions	JIS D 5301, Clause 9.5.1
81	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	Reserve Capacity (RC) test	JIS D 5301, Clause 9.5.2.a
82	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (6V & 12Volt up to 200Ah Capacity)	Charging Conditions	BS EN 50342-1, Clause 5.6.3.1
83	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (6V & 12Volt up to 200Ah Capacity)	Charging of Batteries	BS EN 50342-1, Clause 4.2.1&4.2.2
84	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (6V & 12Volt up to 200Ah Capacity)	Cycling Test	BS EN 50342-1, Clause 5.7.1.2
85	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (6V & 12Volt up to 200Ah Capacity)	Cycling Test	BS EN 50342-1,Clause 5.6.3.3
86	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (6V & 12Volt up to 200Ah Capacity)	Electrolyte retention Test	BS EN 50342-1, Clause 5.10
87	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (6V & 12Volt up to 200Ah Capacity)	Vibration resistance Test	BS EN 50342-1, Clause 5.9
88	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (6V & 12Volt up to 200Ah Capacity)	20 Hour Capacity	BS EN 50342-1, Clause 5.1
89	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (6V & 12Volt up to 200Ah Capacity)	Charge acceptance Test	BS EN 50342-1, Clause 5.4
90	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (6V & 12Volt up to 200Ah Capacity)	Charge Retention Test	BS EN 50342-1, Clause 5.5
91	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (6V & 12Volt up to 200Ah Capacity)	Corrosion Test	BS EN 50342-1, Clause 5.6.2.1
92	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (6V & 12Volt up to 200Ah Capacity)	Corrosion Test	BS EN 50342-1, Clause 5.6.3.2
93	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (6V & 12Volt up to 200Ah Capacity)	Corrosion Test	BS EN 50342-1, Clause 5.7.1.1

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94	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (6V & 12Volt up to 200Ah Capacity)	Cranking performance Test	BS EN 50342-1, Clause 5.3
95	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (6V & 12Volt up to 200Ah Capacity)	Cycling Test	BS EN 50342-1, Clause 5.6.2.2
96	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (6V & 12Volt up to 200Ah Capacity)	Reserve Capacity	BS EN 50342-1, Clause 5.2
97	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (6V & 12Volt up to 200Ah Capacity)	Water consumption Test	BS EN 50342-1, Clause 5.8
98	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity	Rapid discharge capacity at low temperature	GSO 35, Clause 11.0
99	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Battery life test	GSO 35, Clause 15.0
100	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	C20 Hour Capacity check Ce	SASO IEC 60095-1, Clause 9.1
101	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	C20 hour Capacity check Ce	SLS 1126 PART1, Clause 9.1
102	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Charge Acceptance Test	SASO IEC 60095-1,Clause 9.4
103	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Charge Acceptance Test	SLS 1126 PART1, Clause 9.4
104	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Charge retention Test	SASO IEC 60095-1, Clause 9.5
105	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Charge retention Test	SLS 1126 PART1, Clause 9.5
106	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Charging	GSO 35, Clause 4.2
107	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Charging	SASO IEC 60095-1, Clause 8.2
108	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Charging of vented batteries at constant current	SLS 1126 PART1, Clause 8.2.1
109	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Checking of rated capacity 20 Hour	GSO 35, Clause 9.0
110	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Conservation of charge test	GSO 35, Clause 14.0
111	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Cranking performance Test standard temperature	SLS 1126 PART1, Clause 9.3.1
112	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Cranking performance test very cold climates	SLS 1126 PART1, Clause 9.3.2

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113	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Electrolyte retention Test	GSO 35, Clause 19.0
114	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Heat Endurance	GSO 35, Clause 20.0
115	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Reserve Capacity check Cr,e	SLS 1126 PART1, Clause 9.2
116	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Reserve Capacity Check RC e	SASO IEC 60095-1, Clause 9.2
117	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Reserve Capacity test (RC)	GSO 35, Clause 12.0
118	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Strength of terminal	GSO 35, Clause 21.0
119	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Vibration resistance Test	GSO 35, Clause 18.0
120	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Water Consumption Test	GSO 35, Clause 17.0
121	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	Charging	JIS D 5301,Clause 9.4.2
122	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Charging	JIS D 5301,Clause 9.2
123	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	Fastening robustness Test	JIS D 5301, Clause 9.5.8
124	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	Strength of Terminals	CQAL/637(d),Clause 15.13
125	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	Capacity (5-hrate)	CQAL/637(d),Clause 15.5
126	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	Charge acceptance test	CQAL/637(d),Clause 15.8
127	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	Charge retention Test	JIS D 5301,Anex – 1
128	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	Cranking performance Test at -18°C	CQAL/637(d),Clause 16.2
129	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	Electrolyte Retention Test	CQAL/637(d),Clause 15.16
130	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	High rate discharge at -15°C	CQAL/637(d),Clause 15.6.1
131	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	High Rate Discharge at Room Temperature	CQAL/637(d),Clause 15.6.3

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132	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	Life cycle test	CQAL/637(d),Clause 15.10
133	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	Over charge Endurance	CQAL/637(d),Clause 15.12
134	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	Reserve Capacity	CQAL/637(d),Clause 16.1
135	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	Retention of Charge test	CQAL/637(d),Clause 15.15
136	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	Robustness to Fastening	CQAL/637(d),Clause 15.14
137	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	Terminal strength Test	JIS D 5301, Clause 9.5.7
138	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	Vibration Resistance	CQAL/637(d),Clause 15.11
139	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	Water Consumption Test	CQAL/637(d),Clause 16.3
140	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 200Ah Capacity)	Vibration Resistance Test	JIS D 5301, Clause 9.5.6
141	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity	Electrical charge capacity	SNI 0038,Clause 8.4.4
142	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Charge acceptance test	SNI 0038,Clause 1.5.4
143	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Charge retention Test	JIS D 5301, Clause 10.10
144	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Electrolyte retention Test	JIS D 5301, Clause 10.9
145	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Fastening robustness test	JIS D 5301, Clause 10.8
146	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Terminal strength Test	JIS D 5301, Clause 10.7
147	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Vibration Resistance	JIS D 5301, Clause 10.6
148	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Water Consumption Test	JIS D 5301, Clause 10.11
149	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	20h rate Capacity Test C20,e	JIS D 5301, Clause 10.1
150	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Capacity (5hour current rate) rate	SNI 0038,Clause 8.4.2

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151	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Vibration Resistance	JIS D 5301, Clause 10.6
152	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Ce Capacity Test	SNI 0038,Clause 1.5.1
153	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Charge retention Test	SNI 0038,Clause 1.5.5
154	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Charging of batteries	SNI 0038,Clause 8.3
155	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Cranking performance Test	SNI 0038,Clause 1.5.3
156	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Dimensions	JIS D 5301, Annex. A
157	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Dimensions	SNI 0038,Clause 8.4
158	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Electrolyte retention Test	SNI 0038,Clause 1.5.10
159	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Endurance test for Class-A batteries	SNI 0038,Clause 1.5.6
160	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Endurance test for Class-B batteries	SNI 0038,Clause 1.5.7
161	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Heavy Load Endurance Test	JIS D 5301, Clause 10.5.b
162	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Heavy Load Endurance Test	SNI 0038,Clause 8.4.5 a
163	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Light Load Endurance Test	SNI 0038,Clause 8.4.5 b
164	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Reserve Capacity Cr, n test	SNI 0038,Clause 1.5.2
165	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Resistance against fastening	SNI 0038,Clause 8.4.8
166	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Vibration Resistance Test	SNI 0038,Clause 1.5.9
167	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Vibration Resistance Test	SNI 0038,Clause 8.4.6
168	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Water Consumption Test	SNI 0038,Clause 1.5.8
169	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12 Volt up to 205Ah Capacity)	Reserve Capacity (RCe) test	SNI 0038,Clause 10.2

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170	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity	Endurance in cycle Test	SASO IEC 60095-1, Clause 9.6.1.2 :
171	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Corrosion Test	SLS 1126 PART1, Clause 9.6.1
172	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Cycling Test-2	SLS 1126 PART1, Clause 9.6.3
173	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Cycling Test-3	IEC 60095-1, Clause 9.6.4
174	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Electrolyte retention Test	IEC 60095-1, Clause 9.9
175	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Electrolyte retention Test	SASO IEC 60095-1, Clause 9.9
176	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Water Consumption Test	IEC 60095-1, Clause 9.7
177	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Water Consumption Test	SASO IEC 60095-1, Clause 9.7
178	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Water Consumption Test	SLS 1126 PART1, Clause 9.7
179	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Cycling Test-1	SLS 1126 PART1, Clause 9.6.2
180	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Cycling Test-3	SLS 1126 PART1, Clause 9.6.4
181	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Cycling Test-4	SLS 1126 PART1, Clause 9.6.5
182	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Electrolyte retention Test	SLS 1126 PART1, Clause 9.9
183	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Optional Endurance in cycle Test	SASO IEC 60095-1, Clause 9.6.2
184	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Vibration resistance Test	IEC 60095-1, Clause 9.8
185	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Vibration resistance Test	SASO IEC 60095-1, Clause 9.8
186	ELECTRICAL- CELLS & BATTERIES	Lead acid starter Batteries (12Volt up to 200Ah Capacity)	Vibration resistance Test	SLS 1126 PART1, Clause 9.8
187	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor Cycles,Autorickshaws & similar vehicles (6V & 12Volt & up to 14Ah Capacity)	Life Test	IS 1145, Clause 7.15
188	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor Cycles,Autorickshaws & similar vehicles (6V & 12Volt & up to 14Ah Capacity)	Resistance to over charge Test	IS 1145, Clause 7.14

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189	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor Cycles,Autorickshaws & similar vehicles (6V & 12Volt & up to 14Ah Capacity)	Storage Test	IS 1145, Clause 7.16
190	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor Cycles,Autorickshaws & similar vehicles (6V & 12Volt & up to 14Ah Capacity)	Vibration Test	IS 1145,Clause 7.11
191	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor Cycles,Autorickshaws & similar vehicles (6V & 12Volt & up to 14Ah Capacity)	Checking of Dimensions	IS 1145, Clause 7.8
192	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor Cycles,Autorickshaws & similar vehicles (6V & 12Volt & up to 14Ah Capacity)	HRD Test at normal Temperature	IS 1145, Clause 7.12
193	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor Cycles,Autorickshaws & similar vehicles (6V & 12Volt & up to 14Ah Capacity)	Retention of charge Test	IS 1145, Clause 7.13
194	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor Cycles,Autorickshaws & similar vehicles (6V & 12Volt & up to 14Ah Capacity)	Test for C20,C10 rate Capacity	IS 1145, Clause 7.10
195	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor vehicles (6V & 12 Volts & up to 200Ah Capacity)	HRD @ Normal Temperature	IS 7372,Clause 9.9
196	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor vehicles (6V & 12 Volts & up to 200Ah Capacity)	C10 Capacity test	IS 7372, Clause 9.7.4
197	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor vehicles (6V & 12 Volts & up to 200Ah Capacity)	C20 Capacity test	IS 7372, Clause 9.7
198	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor vehicles (6V & 12 Volts & up to 200Ah Capacity)	Charging	IS 7372, Clause 7.0
199	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor vehicles (6V & 12 Volts & up to 200Ah Capacity)	Dimensions	IS 7372 ,Clause 9.4
200	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor vehicles (6V & 12 Volts & up to 200Ah Capacity)	HRD @ Low Temperature	IS 7372, Clause 9.10
201	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor vehicles (6V & 12 Volts & up to 200Ah Capacity)	HRD @ Normal Temperature for heavy duty application	IS 7372, Clause 9.11
202	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor vehicles (6V & 12 Volts & up to 200Ah Capacity)	Life cycle test	IS 7372, Clause 9.14
203	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor vehicles (6V & 12 Volts & up to 200Ah Capacity)	Resistance to Overcharge	IS 7372, Clause 9.13
204	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor vehicles (6V & 12 Volts & up to 200Ah Capacity)	Retention of charge	IS 7372, Clause 9.12
205	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor vehicles (6V & 12 Volts & up to 200Ah Capacity)	Storage Test	IS 7372, Clause 9.15
206	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor vehicles (6V & 12 Volts & up to 200Ah Capacity)	Vibration test	IS 7372, Clause 9.8

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207	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor vehicles with light weight & High cranking performance (12Volt up to 200Ah Capacity)	Charge Acceptance Test	IS 14257, Clause 9.3.6
208	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor vehicles with light weight & High cranking performance (12Volt up to 200Ah Capacity)	Life Cycle Test	IS 14257, Clause 9.3.7
209	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor vehicles with light weight & High cranking performance (12Volt up to 200Ah Capacity)	Robustness of Fastening Test	IS 14257, Clause 9.3.11
210	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor vehicles with light weight & High cranking performance (12Volt up to 200Ah Capacity)	Strength of Terminal Test	IS 14257, Clause 9.3.10
211	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor vehicles with light weight & High cranking performance (12Volt up to 200Ah Capacity)	Vibration resistance Test	IS 14257, Clause 9.3.8
212	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor vehicles with light weight & High cranking performance (12Volt up to 200Ah Capacity)	Charging	IS 14257,Clause 7.1
213	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor vehicles with light weight & High cranking performance (12Volt up to 200Ah Capacity)	Dimensions	IS 14257, Clause 9.3.2
214	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor vehicles with light weight & High cranking performance (12Volt up to 200Ah Capacity)	High rate discharge	IS 14257, Clause 9.3.5
215	ELECTRICAL- CELLS & BATTERIES	Lead acid storage Batteries for motor vehicles with light weight & High cranking performance (12Volt up to 200Ah Capacity)	Over Charge Endurance	IS 14257, Clause 9.3.9
216	ELECTRICAL- CELLS & BATTERIES	Lead acid Traction Batteries Part 1: General requirements and methods of test (2V & 12 Volts up to 1530Ah Capacity)	C5 Capacity test	IEC 60254, Clause 3.1 & 5.2
217	ELECTRICAL- CELLS & BATTERIES	Lead acid Traction Batteries Part 1: General requirements and methods of test (2V & 12 Volts up to 1530Ah Capacity)	Charge retention test	IEC 60254, Clause 3.2 & 5.3
218	ELECTRICAL- CELLS & BATTERIES	Lead acid Traction Batteries Part 1: General requirements and methods of test (2V & 12 Volts up to 1530Ah Capacity)	Cyclic Endurance Test	IEC 60254, Clause 3.4 & 5.5
219	ELECTRICAL- CELLS & BATTERIES	Lead acid Traction Batteries Part 1: General requirements and methods of test (2V & 12 Volts up to 1530Ah Capacity)	High rate discharge performance Test	IEC 60254, Clause 3.3 & 5.4
220	ELECTRICAL- CELLS & BATTERIES	Secondary cells and Batteries for renewable energy storage (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Cycling endurance test in Photovoltaic applications (extreme conditions)	IEC 61427-1, Clause 8.4
221	ELECTRICAL- CELLS & BATTERIES	Secondary cells and Batteries for renewable energy storage (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Generic cycling endurance test	IEC 61427-1,Clause 8.2

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222	ELECTRICAL- CELLS & BATTERIES	Secondary cells and Batteries for renewable energy storage (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	C10 Capacity	IEC 61427-1, Clause 8.1
223	ELECTRICAL- CELLS & BATTERIES	Secondary cells and Batteries for renewable energy storage (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	C120 Capacity test	IEC 61427-1, Clause 8.1
224	ELECTRICAL- CELLS & BATTERIES	Secondary cells and Batteries for renewable energy storage (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Charge retention test	IEC 61427-1, Clause 8.3
225	ELECTRICAL- CELLS & BATTERIES	Secondary cells and Batteries for solar photovoltaic application (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Charge Retention Test	IS 16270 , Clause 8.3
226	ELECTRICAL- CELLS & BATTERIES	Secondary cells and Batteries for solar photovoltaic application (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Cycle Endurance in photovoltaic Application (Extreme Conditions)	IS 16270 , Clause 8.4
227	ELECTRICAL- CELLS & BATTERIES	Secondary cells and Batteries for solar photovoltaic application (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Endurance Test	IS 16270 , Clause 8.2
228	ELECTRICAL- CELLS & BATTERIES	Secondary cells and Batteries for solar photovoltaic application (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Sulphation Test (Applicable for Lead acid Batteries only)	IS 16270 , Clause 8.5
229	ELECTRICAL- CELLS & BATTERIES	Secondary cells and Batteries for solar photovoltaic application (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Water Loss Test (Valid for Flooded Lead acid Batteries only)	IS 16270 , Clause 8.6
230	ELECTRICAL- CELLS & BATTERIES	Small sized Valve Regulated lead acid Batteries (6V & 12Volt up to 200Ah Capacity)	Endurance in Trickle application @40°C	JIS C 8702, Clause 5.8 & 7.8
231	ELECTRICAL- CELLS & BATTERIES	Small sized Valve Regulated lead acid Batteries (6V & 12Volt up to 200Ah Capacity)	Gas emission intensity Test	JIS C 8702, Clause 5.9 & 7.9
232	ELECTRICAL- CELLS & BATTERIES	Small sized Valve Regulated lead acid Batteries (6V & 12Volt up to 200Ah Capacity)	Liquid leakage resistance	JIS C 8702, Clause 5.10 & 7.10.2
233	ELECTRICAL- CELLS & BATTERIES	Small sized Valve Regulated lead acid Batteries (6V & 12Volt up to 200Ah Capacity)	Shock Resistance Characteristics	JIS C 8702, Clause 5.12 & 7.12
234	ELECTRICAL- CELLS & BATTERIES	Small sized Valve Regulated lead acid Batteries (6V & 12Volt up to 200Ah Capacity)	Vibration resistance Characteristics	JIS C 8702, Clause 5.11 & 7.11
235	ELECTRICAL- CELLS & BATTERIES	Small sized Valve Regulated lead acid Batteries (6V & 12Volt up to 200Ah Capacity)	C1 Capacity test	JIS C 8702, Clause 5.1&7.1b
236	ELECTRICAL- CELLS & BATTERIES	Small sized Valve Regulated lead acid Batteries (6V & 12Volt up to 200Ah Capacity)	C20 Capacity Test	JIS C 8702, Clause 5.1&7.2
237	ELECTRICAL- CELLS & BATTERIES	Small sized Valve Regulated lead acid Batteries (6V & 12Volt up to 200Ah Capacity)	Construction, Marking items, Making of polarity	JIS C 8702, Clause 4.1,4.3,4.4

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238	ELECTRICAL- CELLS & BATTERIES	Small sized Valve Regulated lead acid Batteries (6V & 12Volt up to 200Ah Capacity)	Charge acceptance characteristics after deep Discharge	JIS C 8702, Clause 5.6 & 7.6
239	ELECTRICAL- CELLS & BATTERIES	Small sized Valve Regulated lead acid Batteries (6V & 12Volt up to 200Ah Capacity)	Cycle service Endurance	JIS C 8702, Clause 5.3 & 7.3
240	ELECTRICAL- CELLS & BATTERIES	Small sized Valve Regulated lead acid Batteries (6V & 12Volt up to 200Ah Capacity)	Endurance in Trickle application	JIS C 8702, Clause 5.7 & 7.7
241	ELECTRICAL- CELLS & BATTERIES	Small sized Valve Regulated lead acid Batteries (6V & 12Volt up to 200Ah Capacity)	HRD Characteristics	JIS C 8702, Clause 5.2 & 7.2
242	ELECTRICAL- CELLS & BATTERIES	Small sized Valve Regulated lead acid Batteries (6V & 12Volt up to 200Ah Capacity)	Maximum Permissible current	JIS C 8702, Clause 5.5 & 7.5
243	ELECTRICAL- CELLS & BATTERIES	Small sized Valve Regulated lead acid Batteries (6V & 12Volt up to 200Ah Capacity)	Storage Characteristics	JIS C 8702 ,Clause 5.4 & 7.4
244	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead acid type(With tubular positive plates) (2V to 12 Volts & up to 1530Ah Capacity)	Ah & Wh Efficiency Test	IS 1651, Clause 12.9
245	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead acid type(With tubular positive plates) (2V to 12 Volts & up to 1530Ah Capacity)	C1 Capacity test	IS 1651, Clause 12.5
246	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead acid type(With tubular positive plates) (2V to 12 Volts & up to 1530Ah Capacity)	C10 Capacity test	IS 1651, Clause 12.5
247	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead acid type(With tubular positive plates) (2V to 12 Volts & up to 1530Ah Capacity)	C4,C3,C2 Capacity test	IS 1651, Clause 12.5
248	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead acid type(With tubular positive plates) (2V to 12 Volts & up to 1530Ah Capacity)	C9,C8,C7,C6,C5 Capacity test	IS 1651, Clause 12.5
249	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead acid type(With tubular positive plates) (2V to 12 Volts & up to 1530Ah Capacity)	Endurance Test	IS 1651, Clause 12.8
250	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead acid type(With tubular positive plates) (2V to 12 Volts & up to 1530Ah Capacity)	Loss of capacity on storage	IS 1651, Clause 12.7
251	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead acid type(With tubular positive plates) (2V to 12 Volts & up to 1530Ah Capacity)	Short circuit current and Internal Resistance Test	IS 1651, Clause 12.13
252	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead acid type(With tubular positive plates) (2V to 12 Volts & up to 1530Ah Capacity)	Test for suitability of Floating Battery operation	IS 1651, Clause 12.12
253	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead acid type(With tubular positive plates) (2V to 12 Volts & up to 1530Ah Capacity)	Verification of Dimensions	IS 1651, Clause 12.4
254	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead acid type(With tubular positive plates) (2V to 12 Volts & up to 1530Ah Capacity)	Water loss test	IS 1651, Clause 12.11
255	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries,Lead acid (With Plante positive plates) (2V to 12 Volts & up to 1530Ah Capacity)	C10 Capacity test	IS 1652, Clause 10.6 &10.7

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256	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries,Lead acid (With Plante positive plates) (2V to 12 Volts & up to 1530Ah Capacity)	C4,C3,C2 Capacity test	IS 1652, Clause 10.6 &10.7
257	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries,Lead acid (With Plante positive plates) (2V to 12 Volts & up to 1530Ah Capacity)	C9,C8,C7,C6,C5 Capacity test	IS 1652, Clause 10.6 &10.7
258	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries,Lead acid (With Plante positive plates) (2V to 12 Volts & up to 1530Ah Capacity)	Capacities and Dimensions	IS 1652, Clause 6.0
259	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries,Lead acid type (With Plante positive plates) (2V to 12 Volts & up to 1530Ah Capacity)	Endurance Test	IS 1652, Clause 10.9
260	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries,Lead acid type (With Plante positive plates) (2V to 12 Volts & up to 1530Ah Capacity)	Loss of Water test	IS 1652, Clause 10.12
261	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries,Lead acid type (With Plante positive plates) (2V to 12 Volts & up to 1530Ah Capacity)	Ah & Wh Efficiency Test	IS 1652, Clause 10.10
262	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries,Lead acid type (With Plante positive plates) (2V to 12 Volts & up to 1530Ah Capacity)	C1 Capacity test	IS 1652, Clause 10.6 & 10.7
263	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries,Lead acid type (With Plante positive plates) (2V to 12 Volts & up to 1530Ah Capacity)	Loss of capacity on storage	IS 1652, Clause 10.8 :
264	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries,Lead acid type (With Plante positive plates) (2V to 12 Volts & up to 1530Ah Capacity)	Short circuit current and Internal Resistance Test	IS 1652, Clause 10.14
265	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries,Lead acid type (With Plante positive plates) (2V to 12 Volts & up to 1530Ah Capacity)	Test for suitability of Floating Battery operation	IS 1652, Clause 10.13
266	ELECTRICAL- CELLS & BATTERIES	Stationary lead acid Batteries,Lead acid type (With tubular positive plates) in monoblock container (6V & 12 Volts up to 200Ah Capacity)	Ah & Wh Efficiency Test	IS 13369, Clause 11.8
267	ELECTRICAL- CELLS & BATTERIES	Stationary lead acid Batteries,Lead acid type (With tubular positive plates) in monoblock container (6V & 12 Volts up to 200Ah Capacity)	C1 Capacity test	IS 13369, Clause 11.5
268	ELECTRICAL- CELLS & BATTERIES	Stationary lead acid Batteries,Lead acid type (With tubular positive plates) in monoblock container (6V & 12 Volts up to 200Ah Capacity)	C10 Capacity test	IS 13369, Clause 11.5
269	ELECTRICAL- CELLS & BATTERIES	Stationary lead acid Batteries,Lead acid type (With tubular positive plates) in monoblock container (6V & 12 Volts up to 200Ah Capacity)	C3 Capacity test	IS 13369, Clause 11.5
270	ELECTRICAL- CELLS & BATTERIES	Stationary lead acid Batteries,Lead acid type (With tubular positive plates) in monoblock container (6V & 12 Volts up to 200Ah Capacity)	C5 Capacity test	IS 13369, Clause 11.5
271	ELECTRICAL- CELLS & BATTERIES	Stationary lead acid Batteries,Lead acid type (With tubular positive plates) in monoblock container (6V & 12 Volts up to 200Ah Capacity)	Endurance Test	IS 13369, Clause 11.7

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272	ELECTRICAL- CELLS & BATTERIES	Stationary lead acid Batteries,Lead acid type (With tubular positive plates) in monoblock container (6V & 12 Volts up to 200Ah Capacity)	Loss of capacity on storage	IS 13369, Clause 11.6
273	ELECTRICAL- CELLS & BATTERIES	Stationary lead acid Batteries,Lead acid type (With tubular positive plates) in monoblock container (6V & 12 Volts up to 200Ah Capacity)	Verification of Dimensions	IS 13369, Clause 11.4
274	ELECTRICAL- CELLS & BATTERIES	Stationary valve regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Amper-hour and watt-hour efficiency Test	IS 15549 , Clause 12.4 & 12.5
275	ELECTRICAL- CELLS & BATTERIES	Stationary valve regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	C2 Capacity test	IS 15549, Clause 12.3
276	ELECTRICAL- CELLS & BATTERIES	Stationary valve regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	C3 Capacity test	IS 15549,Clause 12.3
277	ELECTRICAL- CELLS & BATTERIES	Stationary valve regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	C4 Capacity test	IS 15549,Clause 12.3
278	ELECTRICAL- CELLS & BATTERIES	Stationary valve regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Test for retention of charge	IS 15549 ,Clause 12.6
279	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Stability against mechanical abuse of units during installation	IEC60896-21&22 ,Clause 6.21
280	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Gas Emission	IEC60896-21&22, Clause 6.1
281	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Inter Cell Connector performance (C0.25)	IEC60896-21&22, Clause 6.10
282	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Thermal runaway sensitivity	IEC60896-21&22, Clause 6.18
283	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	C3 Capacity test	IEC60896-21&22, Clause 6.11
284	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	C10 Capacity test	IEC60896-21&22, Clause 6.11
285	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	C8 Capacity test	IEC60896-21&22,Clause 6.11
286	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Float service with daily discharges	IEC60896-21&22, Clause 6.13
287	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Service life at an operating temperature of 40°C	IEC60896-21&22 ,Clause 6.15
288	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	C1 Capacity test	IEC60896-21&22, Clause 6.11
289	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	C15' Capacity test	IEC60896-21&22, Clause 6.11

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290	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Recharge Behavior	IEC60896-21&22, Clause 6.14
291	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Short circuit & D.C.Internal resistance	IEC60896-21&22 ,Clause 6.3
292	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	High Current Tolerance	IEC60896-21&22, Clause 6.2
293	ELECTRICAL- CELLS & BATTERIES	Stationary valve regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Test for Oxygen recombination efficiency	IS 15549, Clause 12.9
294	ELECTRICAL- CELLS & BATTERIES	Stationary valve regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Endurance life cycle test	IS 15549, Clause 12.10
295	ELECTRICAL- CELLS & BATTERIES	Stationary valve regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	C5 Capacity test	IS 15549, Clause 12.3
296	ELECTRICAL- CELLS & BATTERIES	Stationary valve regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Test for C10 Capacity	IS 15549, Clause 12.1
297	ELECTRICAL- CELLS & BATTERIES	Stationary valve regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	C8 Capacity test	IS 15549, Clause 12.3
298	ELECTRICAL- CELLS & BATTERIES	Stationary valve regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Test for C1 Capacity	IS 15549, Clause 12.2
299	ELECTRICAL- CELLS & BATTERIES	Stationary valve regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Markings on cell	IS 15549, Clause 8
300	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Abusive over- discharge	IEC60896-21&22, Clause 6.17
301	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Charge retention during storage	IEC60896-21&22, Clause 6.12
302	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Impact of a stress temperature of 55°C or 60°C	IEC60896-21&22, Clause 6.16
303	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Protection against ground short propensity	IEC60896-21&22, Clause 6.4
304	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Low temperature sensitivity	IEC60896-21&22 Clause 6.19
305	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Protection against internal Ignition from external spark sources	IEC 60896-21&22, Clause 6.3
306	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Dimensional stability at elevated internal pressures and temperatures	IEC 60896-21&22, Clause 6.20
307	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated lead acid Batteries (2 Volt up to 1530Ah Capacity & 12 Volt up to 200Ah Capacity)	Valve Operation	IEC 60896-21&22, Clause 6.8

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308	ELECTRICAL- CELLS & BATTERIES	Valve Regulated lead acid (VRLA) Batteries (2V & 12 Volts up to 5000 Ah Capacity	Cell/Mono-block pressure	TEC/GR/TX/BAT-001/04 ,Clause 6.3 & 7.6.4.2
309	ELECTRICAL- CELLS & BATTERIES	Valve Regulated lead acid (VRLA) Batteries (2V & 12 Volts up to 5000 Ah Capacity	Gassing	TEC/GR/TX/BAT-001/04, Clause 6.4 & 7.6.4.3
310	ELECTRICAL- CELLS & BATTERIES	Valve Regulated lead acid (VRLA) Batteries (2V & 12 Volts up to 5000 Ah Capacity	Thermal Runaway	TEC/GR/TX/BAT-001/04, Clause 6.8 & 7.6.4.5
311	ELECTRICAL- CELLS & BATTERIES	Valve Regulated lead acid (VRLA) Batteries (2V & 12 Volts up to 5000 Ah Capacity	Expected cell / Mono-block/Battery Life	TEC/GR/TX/BAT-001/04, Clause 5.12 & 7.6.4.4
312	ELECTRICAL- CELLS & BATTERIES	Valve Regulated lead acid (VRLA) Batteries (2V & 12 Volts up to 5000 Ah Capacity	Oxygen Recombination Efficiency	TEC/GR/TX/BAT-001/04, Clause 6.2&7.6.4.1
313	ELECTRICAL- CELLS & BATTERIES	Valve Regulated lead acid (VRLA) Batteries (2V & 12 Volts up to 5000 Ah Capacity)	Capacity (C/10)	TEC/GR/TX/BAT-001/04, Clause 5.1
314	ELECTRICAL- CELLS & BATTERIES	Valve Regulated lead acid (VRLA) Batteries (2V & 12 Volts up to 5000 Ah Capacity)	Loss of capacity during storage	TEC/GR/TX/BAT-001/04, Clause 5.7 & 7.6.3.6
315	ELECTRICAL- CELLS & BATTERIES	Valve Regulated lead acid (VRLA) Batteries (2V & 12 Volts up to 5000 Ah Capacity)	Battery Discharge tables	TEC/GR/TX/BAT-001/04, Clause 5.5
316	ELECTRICAL- CELLS & BATTERIES	Valve Regulated lead acid (VRLA) Batteries (2V & 12 Volts up to 5000 Ah Capacity)	Capacity (C/120)	TEC/GR/TX/BAT-001/04, Clause 5.1
317	ELECTRICAL- CELLS & BATTERIES	Valve Regulated lead acid (VRLA) Batteries (2V & 12 Volts up to 5000 Ah Capacity)	Capacity (C/20)	TEC/GR/TX/BAT-001/04, Clause 5.1
318	ELECTRICAL- CELLS & BATTERIES	Valve Regulated lead acid (VRLA) Batteries (2V & 12 Volts up to 5000 Ah Capacity)	Capacity (C/3)	TEC/GR/TX/BAT-001/04,Clause 5.1
319	ELECTRICAL- CELLS & BATTERIES	Valve Regulated lead acid (VRLA) Batteries (2V & 12 Volts up to 5000 Ah Capacity)	Capacity (C/4)	TEC/GR/TX/BAT-001/04, Clause 5.1
320	ELECTRICAL- CELLS & BATTERIES	Valve Regulated lead acid (VRLA) Batteries (2V & 12 Volts up to 5000 Ah Capacity)	Capacity (C/5)	TEC/GR/TX/BAT-001/04,Clause 5.1
321	ELECTRICAL- CELLS & BATTERIES	Valve Regulated lead acid (VRLA) Batteries (2V & 12 Volts up to 5000 Ah Capacity)	Capacity (C/6)	TEC/GR/TX/BAT-001/04,Clause 5.1
322	ELECTRICAL- CELLS & BATTERIES	Valve Regulated lead acid (VRLA) Batteries (2V & 12 Volts up to 5000 Ah Capacity)	Capacity (C/72)	TEC/GR/TX/BAT-001/04, Clause 5.1
323	ELECTRICAL- CELLS & BATTERIES	Valve Regulated lead acid (VRLA) Batteries (2V & 12 Volts up to 5000 Ah Capacity)	Capacity (C/8)	TEC/GR/TX/BAT-001/04, Clause 5.1
324	ELECTRICAL- CELLS & BATTERIES	Valve Regulated lead acid (VRLA) Batteries (2V & 12 Volts up to 5000 Ah Capacity)	Cell Matching	TEC/GR/TX/BAT-001/04, Clause 5.11 & 7.6.3.10
325	ELECTRICAL- CELLS & BATTERIES	Valve Regulated lead acid (VRLA) Batteries (2V & 12 Volts up to 5000 Ah Capacity)	Charging	TEC/GR/TX/BAT-001/04, Clause 5.2 & 7.6.3.2(A),(B),(C)
326	ELECTRICAL- CELLS & BATTERIES	Valve Regulated lead acid (VRLA) Batteries (2V & 12 Volts up to 5000 Ah Capacity)	Float Voltage	TEC/GR/TX/BAT-001/04 ,Clause 5.3 & 7.6.3.3

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327	ELECTRICAL- CELLS & BATTERIES	Valve Regulated lead acid (VRLA) Batteries (2V & 12 Volts up to 5000 Ah Capacity)	Short Circuit	TEC/GR/TX/BAT-001/04, Clause 5.10 & 7.6.3.9
328	ELECTRICAL- CELLS & BATTERIES	Valve Regulated lead acid (VRLA) Batteries (2V & 12 Volts up to 5000 Ah Capacity)	Transient Response (Coup De Fouet)	TEC/GR/TX/BAT-001/04, Clause 5.6 & 7.6.3.5
329	ELECTRICAL- CELLS & BATTERIES	Valve Regulated lead acid (VRLA) Batteries (2V & 12 Volts up to 5000 Ah Capacity)	Voltages during discharge	TEC/GR/TX/BAT-001/04, Clause 5.4& 7.6.3.4
330	ELECTRICAL- CELLS & BATTERIES	Valve Regulated lead acid (VRLA) Batteries (2V & 12 Volts up to 5000 Ah Capacity)	Watt- Hour Efficiency	TEC/GR/TX/BAT-001/04, Clause 5.9 & 7.6.3.8
331	ELECTRICAL- CELLS & BATTERIES	Valve Regulated lead acid (VRLA) Batteries (2V & 12 Volts up to 5000 Ah Capacity)	Ampere Hour (Ah) Efficiency	TEC/GR/TX/BAT-001/04, Clause 5.8 & 7.6.3.7
332	ELECTRICAL- CELLS & BATTERIES	Valve Regulated(Sealed) Lead acid stationary Battery & Charger for Railway S&T installations (2V to 12 Volts & up to 500Ah Capacity)	Test for gas Recombination efficiency	IRS:S 93/96 with Amd.1, Clause A.10.11
333	ELECTRICAL- CELLS & BATTERIES	Valve Regulated(Sealed) Lead acid stationary Battery & Charger for Railway S&T installations (2V to 12 Volts & up to 500Ah Capacity)	Test for voltage during discharge	IRS:S 93/96 with Amd.1, Clause A.10.8
334	ELECTRICAL- CELLS & BATTERIES	Valve Regulated(Sealed) Lead acid stationary Battery & Charger for Railway S&T installations (2V to 12 Volts & up to 500Ah Capacity)	Ah & Wh efficiency Test	IRS:S 93/96 with Amd.1, Clause A.10.7
335	ELECTRICAL- CELLS & BATTERIES	Valve Regulated(Sealed) Lead acid stationary Battery & Charger for Railway S&T installations (2V to 12 Volts & up to 500Ah Capacity)	Endurance Test	IRS:S 93/96 with Amd.1, Clause A.10.6
336	ELECTRICAL- CELLS & BATTERIES	Valve Regulated(Sealed) Lead acid stationary Battery & Charger for Railway S&T installations (2V to 12 Volts & up to 500Ah Capacity)	Test for Capacity (C10,C5,C4,C3,C2,C1 rate of discharge)	IRS:S 93/96 with Amd.1, Clause A.10.4
337	ELECTRICAL- CELLS & BATTERIES	Valve Regulated(Sealed) Lead acid stationary Battery & Charger for Railway S&T installations (2V to 12 Volts & up to 500Ah Capacity)	Test for Charge retention	IRS:S 93/96 with Amd.1, Clause A.10.5
338	ELECTRICAL- CELLS & BATTERIES	Valve Regulated(Sealed) Lead acid stationary Battery & Charger for Railway S&T installations (2V to 12 Volts & up to 500Ah Capacity)	Test for Endurance under short circuit conditions	IRS:S 93/96 with Amd.1 ,Clause A.10.9
339	ELECTRICAL- CELLS & BATTERIES	Valve Regulated(Sealed) Lead acid stationary Battery & Charger for Railway S&T installations (2V to 12 Volts & up to 500Ah Capacity)	Verification of Constructional Requirements	IRS:S 93/96 with Amd.1 , Clause A.10.2
340	ELECTRICAL- CELLS & BATTERIES	Valve Regulated(Sealed) Lead acid stationary Battery & Charger for Railway S&T installations (2V to 12 Volts & up to 500Ah Capacity)	Verification of marking	IRS:S 93/96 with Amd.1, Clause A.10.3
341	ELECTRICAL- CELLS & BATTERIES	VRLA Batteries for 110V train lighting ,Air conditioned and LHB coaches (2V ,6V & 12 Volts up to 1100Ah Capacity)	Internal Resistance of cells	RDSO/PE/SPEC/AC/0009-(Rev.2), Clause 5.21

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	AMARA RAJA BATTERIES LTD., TESTING AND CALIBRATION LABORATORY, KARAKAMBADI RENIGUNTA KADAPA ROAD, TIRUPATI, CHITTOOR, ANDHRA PRADESH, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8376	**Page No**	20 of 20
Validity	01/03/2022 to 29/02/2024	**Last Amended on**	29/05/2023

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
342	ELECTRICAL- CELLS & BATTERIES	VRLA Batteries for 110V train lighting ,Air conditioned and LHB coaches (2V ,6V & 12 Volts up to 1100Ah Capacity)	Vibration Test	RDSO/PE/SPEC/AC/0009-(Rev.2), Clause 5.20
343	ELECTRICAL- CELLS & BATTERIES	VRLA Batteries for 110V train lighting ,Air conditioned and LHB coaches (2V ,6V & 12 Volts up to 1100Ah Capacity)	Capacity at 0°C	RDSO/PE/SPEC/AC/0009-(Rev.2) , Clause 5.22
344	ELECTRICAL- CELLS & BATTERIES	VRLA Batteries for 110V train lighting ,Air conditioned and LHB coaches (2V ,6V & 12 Volts up to 1100Ah Capacity)	Capacity at 10Hrs Rate	RDSO/PE/SPEC/AC/0009-(Rev.2), Clause 5.6
345	ELECTRICAL- CELLS & BATTERIES	VRLA Batteries for 110V train lighting ,Air conditioned and LHB coaches (2V ,6V & 12 Volts up to 1100Ah Capacity)	Capacity at 3Hs Rate	RDSO/PE/SPEC/AC/0009-(Rev.2) , Clause 5.8
346	ELECTRICAL- CELLS & BATTERIES	VRLA Batteries for 110V train lighting ,Air conditioned and LHB coaches (2V ,6V & 12 Volts up to 1100Ah Capacity)	Capacity at 5Hrs Rate	RDSO/PE/SPEC/AC/0009-(Rev.2), Clause 5.7
347	ELECTRICAL- CELLS & BATTERIES	VRLA Batteries for 110V train lighting ,Air conditioned and LHB coaches (2V ,6V & 12 Volts up to 1100Ah Capacity)	Conductance measurement of cell	RDSO/PE/SPEC/AC/0009-(Rev.2), Clause 5.23
348	ELECTRICAL- CELLS & BATTERIES	VRLA Batteries for 110V train lighting ,Air conditioned and LHB coaches (2V ,6V & 12 Volts up to 1100Ah Capacity)	Equilibrium Float current Test	RDSO/PE/SPEC/AC/0009-(Rev.2), Clause 5.14
349	ELECTRICAL- CELLS & BATTERIES	VRLA Batteries for 110V train lighting ,Air conditioned and LHB coaches (2V ,6V & 12 Volts up to 1100Ah Capacity)	Life Test	RDSO/PE/SPEC/AC/0009-(Rev.2), ,Clause 5.11
350	ELECTRICAL- CELLS & BATTERIES	VRLA Batteries for 110V train lighting ,Air conditioned and LHB coaches (2V ,6V & 12 Volts up to 1100Ah Capacity)	Loss of cell weight	RDSO/PE/SPEC/AC/0009-(Rev.2), Clause 5.13
351	ELECTRICAL- CELLS & BATTERIES	VRLA Batteries for 110V train lighting ,Air conditioned and LHB coaches (2V ,6V & 12 Volts up to 1100Ah Capacity)	Overall dimensions and masses	RDSO/PE/SPEC/AC/0009-(Rev.2), Clause 3.0
352	ELECTRICAL- CELLS & BATTERIES	VRLA Batteries for 110V train lighting ,Air conditioned and LHB coaches (2V ,6V & 12 Volts up to 1100Ah Capacity)	Recharge Capability Test	RDSO/PE/SPEC/AC/0009-(Rev.2), Clause 5.12
353	ELECTRICAL- CELLS & BATTERIES	VRLA Batteries for 110V train lighting ,Air conditioned and LHB coaches (2V ,6V & 12 Volts up to 1100Ah Capacity)	Retention of charge and storage Test	RDSO/PE/SPEC/AC/0009-(Rev.2) , Clause 5.10
354	ELECTRICAL- CELLS & BATTERIES	VRLA Batteries for 110V train lighting ,Air conditioned and LHB coaches (2V ,6V & 12 Volts up to 1100Ah Capacity)	Watt-Hour and Ampere-Hour Efficiency Test	RDSO/PE/SPEC/AC/0009-(Rev.2) , Clause 5.9