

Level 1 Category : Power Generation and Distribution Machinery and Accessories : UNSPSC CODE : 26							
Level 2 Category : Batteries and generators and kinetic power transmission : UNSPSC CODE : 2611							
Level 3 Category : batteries cells and accessories : UNSPSC CODE : 261117							
Level 4 Category : Lithium-ion Rechargeable Batteries - 48 Volt (For E-Rickshaws) : UNSPSC CODE : 26111707							
Sl. No.	Parameter	Field Type	Field Category	Value 1	Value 2	Value 3	Value 4
1	GROUP:GENERIC						
2	Lithium ion cells generally conforming to	Enumerable	Mandatory	IS:16047:2018 latest			
3	Minimum Voltage of battery pack (In V)	Enumerable	Golden,Filter, Mandatory	48			
4	Operating Voltage/Voltage range	Enumerable	Golden,Filter, Mandatory	36.4 V to 58.8 V (for 48 Volt battery)			
5	Battery Capacity at C5 rate (In Ah)	Enumerable	Golden,Filter, Mandatory	50, 60, 75, 80, 85, 100			
6	Battery capacity at C5 rate (In Ah)/Rated energy (Nominal)	Enumerable	Golden,Filter, Mandatory	50 Ah/2.56 kWh, 50Ah/2.40kWh, 50 Ah/2.56 kWh, 50Ah/2.40kWh , 75Ah/3.84kWh, 75Ah/3.6kWh, 80 Ah/4.09 kWh, 80Ah/3.84kWh, 85Ah/4.35kWh, 85Ah/4.08kWh, 100Ah/5.12kWh, 100Ah/4.8kWh			
7	Constant Current	Enumerable	Golden,Filter, Mandatory	50 A			
8	Peak Current	Enumerable	Golden,Filter, Mandatory	100 A			

9	Continuous Charging current	Enumerable	Golden,Filter, Mandatory	20 A			
10	IP Class (as per IS:...)	Enumerable	Mandatory	IP 65			
11	Battery charger	Enumerable	Golden,Filter, Mandatory	Yes			
12	Battery charger rating (in Amps)	Enumerable	Golden,Filter, Mandatory	20 A	30 A		
13	Communication Interface with driver CD / Software	Enumerable	Mandatory	RS 485			
14	Dimension for battery (Length in mm x Width in mm x Height in mm )-Must Declare	Text	Mandatory				
15	Battery pack material	Enumerable	Mandatory	Mild steel			
16	Charger warranty	Enumerable	Golden,Filter, Mandatory	1 Year	2 Years		
17	Battery Warranty	Enumerable	Golden,Filter, Mandatory	2 Years			
18	Operating Temperature	Enumerable	Golden,Filter, Mandatory	0 Deg C to 60 Deg C			
19	GROUP: PROTECTION						

20	Battery Management System	Enumerable	Mandatory	Yes			
21	Over voltage protection	Enumerable	Mandatory	Yes			
22	Over Temperature protection	Enumerable	Mandatory	Yes			
23	under Voltage protection	Enumerable	Mandatory	Yes			
24	Over Current protection	Enumerable	Mandatory	Yes			
25	Short-circuit protection	Enumerable	Mandatory	Yes			
26	Reverse Polarity protection	Enumerable	Mandatory	Yes			
27	Deep Discharge protection	Enumerable	Mandatory	Yes			
29	GROUP: CERTIFICATIONS						

30	Product shall comply with ARAI: AIS:048 latest (Test reports shall submit to buyer/consignee on demand)	Enumerable	Mandatory	Yes			
31	Availability of complete and satisfactory type test Report from Central Government / NABL/ ILAC accredited laboratory to showing conformity of the Specification	Enumerable	Mandatory	Yes			
32	Test report Number	Text	Mandatory				
33	Report date	Text	Mandatory				
34	Name and address of Lab	Text	Mandatory				

35	All the test reports and certificates shall furnish to the buyer/consignee on demand	Enumerable	Mandatory	Yes			
36	Cells shall comply with BIS CRS as per IS:16046	Enumerable	Mandatory	Yes			