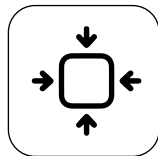
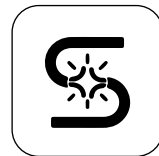
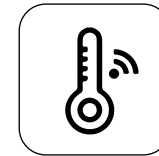


E-SCOOTER/E-BIKE LITHIUM BATTERY

The growing awareness of greenhouse gas emissions and pollution has led to the growth of the electric two-wheeler segment. Shizen Energy has found an opportunity in this growth and provides reliable and affordable lithium battery packs with superior efficiency. They have been made with the highest regard for safety standards, exclusively designed for Indian driving conditions. The compact product design of the battery occupies minimal space, but still delivers unmatched performance. Our smart BMS will ensure maximized battery life cycles and supports fast charging, performing far better and lasting much longer than lead acid batteries.

FEATURES:**Great Mileage****Compact****Light Weight****Short Circuit Protection****Advanced Thermal Management****Models:****48V 25-44AH, 60V 25-44AH,
72V 25-50AH****Scooter, Bike, Hybrid Vehicles**

MODEL	ES48V-25AH	ES48V-33AH	ES48V-44AH	ES60V-25AH	ES60V-33AH	ES60V-33AH	ES60V-44AH	ES60V-44AH	ES72V-25AH	ES72V-50AH	ES72V-33AH	ES72V-44AH	
ELECTRICAL SPECIFICATIONS													
1	Cell chemistry	LFP	NMC		LFP	NMC			LFP		NMC		
2	Pack combination	16S1P	13S1P		20S1P	16S1P	17S1P	16S1P	17S1P	23S1P	23S2P	20S1P	
3	Nominal Voltage	51.2	48.1		64	59.2	62.9	59.2	62.9	73.6		74	
4	Nominal capacity	25Ah	33Ah	44Ah	25Ah	33Ah	33Ah	33Ah	33Ah	25Ah	50Ah	33Ah	44Ah
5	Energy	1.2kwh	1.5Kwh	2.1Kwh	1.6kwh	1.9Kwh	2Kwh	1.9Kwh	2Kwh	1.8Kwh	3.6Kwh	2.4Kwh	3.2Kwh
6	Efficiency	95%											
7	Usable Capacity (%)	100%											
8	DOD %	>91%											
9	Warranty	3 years											
10	Life (Years) / Life Cycle	>2500 times (<0.5C)											
11	Self discharge rate	≤3%/month											
CHARGE & DISCHARGE SPECIFICATIONS													
12	Charging mode	CC/CV											
15	Charging current (Max)	30A	25A										
16	Charging voltage (Max)	58.4V	54.6V	71.4V	68V	71.4V	68V	71.4V	84.4V	84V			
17	Recommended low voltage cut off	44V	41.6V	54.2V	51.2V	54.4V	51.2V	54.4V	62.1V	64V			
18	Max continuous discharge current	30A	50A		50A							80A	
19	Peak discharge current	60A (3Sec)	75A (1Sec)	75A (1Sec)								150A (1Sec)	
20	BMS wakeup	Charger in Charging the Battery											
TEMPERATURE SPECIFICATIONS													
21	Charging	Charge: 0 ~ 45°C											
22	Discharge	Discharge: -20 ~ 60°C											
23	Storage	-5 ~ 35°C											
24	BMS high temperature cut off	65°C											
25	BMS low temperature cut off	-10°C											
MECHANICAL SPECIFICATIONS													
26	Dimensions(L*W*H)mm	230 x 227 x 180	230X227X180 & 227X190X180	275 X 185 X 200	230X227X180	230X227X180	230X227X180	230X227X180	275 X 185 X 200	470 X 360 X160	360 X 230 X 160		
27	Weight (kg)	17Kg	15.5Kg	15Kg	17.5Kg	16.6Kg	17.65Kg	17.65Kg	18.76Kg	22.8Kg	38.13Kg	19.5Kg	21.4Kg
28	Terminal Type	Anderson Connector											
29	Type of Enclosure	CRCA 1.2mm iron sheet, electro-plated and powder coated											
30	Enclosure Protection	Silicone Sealant (Clear)											
31	Connectors	1. 10SQMM With SB50 Male 2 Way Battery Connector (Discharge)											
32	Communication Ports	RS485,CANBus,Bluetooth Optional											
33	Certifications	ICAT											
34	Display	LCD (Optional)											

Shizen Energy India Pvt Ltd

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Mc Nichols Rd, Chetpet, Chennai- 600031, Tamil Nadu, India

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Chandigarh Office (North Region): Plot No.209, HSIIDC Road
Alipur, Barwala Dist. Panchkula -134118, Haryana, India

Safety and Precautions:

- ⚡ DO NOT use the battery in any appliance or purpose for which it was not intended.
- ⚡ DO NOT dispose of the battery in a fire or place the battery in water.
- ⚡ PLEASE consult SHIZEN ENERGY INDIA for any information regarding operating, modifying, or disposing of the battery pack.



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