

Lithium-ion(LiFeP04) E-Bike/E-Trike Power Battery
72V - 50Ah / 100Ah

KEY FEATURES

Nominal Voltage: 76.8V
Capacity: 50Ah, 100Ah, Customizable
Dimensions: Standard or Customizable
IP Grade: IP65
Cell Chemistry: Lithium Iron Phosphate (LiFeP04)
Monitoring: Bluetooth, LCD Screen(optional)
Lifespan: >3500 cycles @80% DoD, 25°C(77°F), 0.5C



Specifications

Model	QM72-50		QM72-100	
Electrical				
Nominal Voltage	76.8 V			
Operation Voltage	60 – 87.6 V			
Rated Capacity	50 Ah		100 Ah	
Rated Energy	3.84 kWh		7.68 kWh	
Estimated Range Per 100% SOC	65-75 miles (105-120 km) @ 50km/h		130-150 miles (210-240 km) @ 50km/h	
Suggested DoD	< 90%			
Max DoD	100%			
Self-Discharge	< 3% per Month			
Cells Type	LiFePO4 Prismatic			
Cell Model	3.2 V 50 Ah		3.2 V 100 Ah	
Cells Configuration	24S1P		24S1P	
Balancing	400 mA, Active Balancing			
Charge				
Charge Voltage	72 V			
BMS Charge Voltage Cut-Off	72 V			
Recommended Charge Current	< 25 A		< 50 A	
Max. Continuous Charge Current	50 A		100 A	
Charge Temperature	0 – 55 °C (32 – 131 °F)			
Discharge				
Max. Continuous Discharge Current	60 A		100 A	
Peak Discharge Current	100 A @ 10S		200 A @ 10S	
Recommended Low Voltage Cut-Off	69.6 V			
BMS Discharge Voltage Cut-Off	60 V			
Discharge Temperature	-20 – 60 °C (-4 – 140 °F)			
Mechanical				
Dimensions	460 * 230 * 160 mm (18.11 * 9.06 * 6.3 inch)		640 * 240 * 180 mm (25.2 * 9.45 * 7.09 inch)	
Weight	36 kg (79.37 lbs)		63 kg (138.89 lbs)	
Terminal Type	Charge: Anderson, Discharge: Anderson			
Case Material	Powder Coated Steel			
Enclosure Protection	IP65			
Communication				
LCD Screen	Yes		Yes	
Bluetooth	Yes		Yes	
CAN	Yes		Yes	
Safety And Warranty				
Protection Function	Overcharge, Over-discharge, Over current, Short Circuit, Over Temperature, Under Temperature			
Storage	0 – 40 °C (32 – 104 °F), < RH 80%, > 60% SOC			
Warranty	2 Years			
Lifespan	10 years or 3500 Cycles @ 25°C, 80% EOL			
Certificates	CE, RoHS, UN38.3, IEC, MSDS			

1. All specifications shown above are subject to change during products improving at any time without prior notice.
2. For other batteries not listed above, customization is also available.