

### TS5000 (LiFePO<sub>4</sub> 51.2V 100Ah, 5.12KWh)

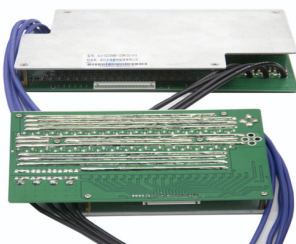
- Safety in use
- Low self discharge rate
- Good high temperature performance
- High Cycle times and long service life
- High energy density and conversion efficiency
- Environmental friendly, without any heavy metals
- Easy installation, BMS modbus protocol can communicate with the inverter



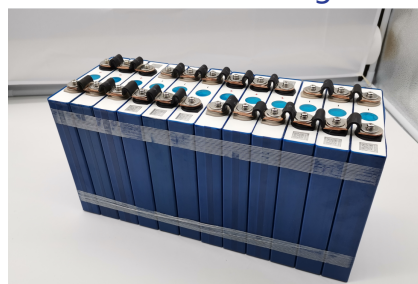
Item	Specification	
Electrical Characteristics	Nominal Voltage	51.2V
	Nominal Capacity	100Ah (C <sub>5</sub> ,25°C)
	Energy	5.12KWh
	Internal Resistance	≤50m Ω
	Cycle Life	>6000 cycles
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	58.4 ± 0.2V
	Charge Mode	0.2C to 58.4V, then 58.4,charge current 0.02C(CC/CV)
	Charger Current	25A
	Max. Charge Current	50A
	Charge Cut-off Voltage	59.2V ± 0.2V
Standard Discharge	Continuous Current	100A
	Max. Pulse Current	150A(<3s)
	Discharge Cut-off Voltage	40V
Environmental	Charge Temperature	0°C to 45°C (32F to 113F) @60±25% Relative Humidity
	Discharge Temperature	-20°C to 60°C (-4F to 140F) @60± 25% Relative Humidity
	Storage Temperature	0°C to 40°C (32F to 104F) @60± 25% Relative Humidity
Mechanical	Battery Case	Standard 4U Case
	Dimensions (in./mm.)	482*177*400mm
	Weight (lbs./kg.)	45Kg
	Cell & Method	3.2V LiFePO <sub>4</sub> Cells
	Communication	RS232, RS485 & CAN
	Terminal	Energy storage connector
	Connection	Parallel Connections
	BMS Protection	Over-Charge, Over-Discharge, Over-Current and Short Circuit, Low/HighTemp Cutoff, plus Pre-charge resistor

### Product Design

BMS



LiFePO<sub>4</sub> Cell Package



LiFePO<sub>4</sub> in Box



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