

48V 4.8KWH

LiFeP04 Battery Module

EP-100 XS



Product Selling Points

- Imported core electronic components with a lifespan of 10+ years
- The component MOS tube can be replaced, which is convenient for after-sales maintenance
- Grade A battery cell, long service life
- Up to 16 batteries can be connected in parallel
- Larger battery capacity
- Green and environmental protection, Low environmental pollution
- safety protection management
- Grounding design, anti-surge, and alarm function
- Parameter Adjustability



Compatible With Inverter Brands

Ecopower's battery BMS supports simultaneous communication and compatible with multiple inverter brands



BMS Master Control Parameters

Working Voltage	48V		
Working Temperature	-20~60°C		
Current Detection	110A		
Consumption	100Ah/4.8kWh		
Communication	RS232	Communication rate: 9600bps	Electrical isolation: 2500VDC
	CAN	Communication rate: 250K/500K	Electrical isolation: 2500VDC
	RS485	Communication rate: 9600bps	Electrical isolation: 2500VDC
Insulation Withstand Voltage	Communication	CAN/RS485/RS232	2500VDC

Features

System runs fast

- Using 48MHz Cortex-M0+ 32-bit CPU the system runs faster;

Program online upgrade

- Support online program upgrade;

Flexible system architecture

- Support CAN, RS485, interface, IEC61850 communication protocol, the system architecture is comprehensive and flexible;

Energy storage system technology

- Meet 48Vdc energy storage system;

Accurate collection accuracy

- **Insulation:** The optimized design of resistance hardware and software reduces the influence of Y capacitance in the PCS and increases the acquisition cycle by 50%;
- **Current:** Support dual-range Hall sensor and CAN communication digital current loop;

Collection of battery information

- Collect, analyze, judge and store all battery information in the battery cluster;

Personalized parameter settings

- Support three-level alarm protection, parameters can be changed.

Battery System Parameter

Product Model	48V 100Ah
Battery System Rated Voltage	48V
Battery System Working Voltage Range	43.5V~53.25V
Rated Capacity	100Ah
Cycle Life	≥6000 (25° C ±2° C, 0.5C charge-discharge, DOD ≥80%)
Configuration	15S1P
Net Weight	≈42.5Kg
System Energy Density Ratio	113Wh/Kg
Charge Current	0.5C(Max. 1C)
Continuous Discharge Current	1C
SOC Working Range	5%-100%
Electrical Insulation	In the full cycle of the battery, the insulation resistance value of any terminal should not be less than 2MΩ
Protection Class	IP53
System Cooling Method	Natural cooling
Delivery SOC	≈45%
Product Dimension	473mm(H)x482mm(D)x133mm(T)
Working Temperature	-20/60°C (optional heating device below 0°C)

Features

