

12V 100Ah

LiFePO₄ BATTERY

LITHIUM IRON PHOSPHATE BATTERY

1. Features and Applications

A full range of replacement lead-acid batteries, products cover 12V6AH-12V300AH.

Widely used in RV, UPS, fire protection and other backup power scenarios.

Consistent with the appearance and size of the existing lead-acid battery, perfect replacement.

2. Main Parameters

Lithium iron phosphate battery, more reliable and safer.

Rated voltage: 12.8V

Voltage range: 11.0V-14.4V

Capacity range: 6Ah to 300Ah

Supports four batteries in series with a voltage of 48V.

Four batteries supported to be connected in parallel to meet large capacity requirements.

3. Optional Functions

Bluetooth function, mobile APP to query battery parameters.

Communication function: RS485 communication or CAN communication.

Display function: The LCD screen displays battery data.



4. Specification

Electrical Characteristics

Nominal Voltage	12.8V
Nominal Capacity	100Ah
Battery Energy	1280Wh
Internal Resistance	≤50 mΩ
Cycle Life	4000 Cycles @0.3C Charging/Discharging, DoD 80%
Self Discharge	≤3% per month at 25°C

Standard Charging

Charge Voltage	14.4V
Charge Mode	0°C - 45°C temperature, charged to 14.4V at a constant current of 0.2C, and then, changed continuously with constant voltage of 14.4V until the current was not more than 0.02C

Charge Current	30A
Max.Charge Current	50A
Peak.Charge Current	100A

Standard Discharging

Discharging Cut-off Voltage	10.8V
Discharging Current	50A
Max. Continuous Current	100A
Max.Pulse Current (<3S)	200A

Operating Condition

Charge Temperature	0°C to 55°C(32°F to 131°F)
Discharge Temperature	-20°C to 60°C(-4°F to 140°F)
Storage Temperature	0°C to 40°C(32°F to 104°F)
Protection Grade	IP65

Structure & Safety

Cell & Format	3.2V 100Ah & 4S1P
Casing	ABS+PC
Dimension(L*W*H*)	260*168*210mm / 10.2*6.6*8.3in
Weight	12kg / 26.5lb
Terminal	M6
Certificat	UN38.3/MSDS