



LFP 48V 100Ah



Features of LiFePO4 Battery

- Longer Cycle Life:** Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.
- Light Weight:** About 40% of the weight of a comparable lead-acid battery. A drop in replacement for lead acid batteries.
- Higher Power:** Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.
- Wider Temperature Range:** -20°C-60°C
- Superior Safety:** Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.
- Increased Flexibility:** Modular design enables deployment of up to four batteries in series and up to four batteries in parallel.

Application

- Electric Vehicles, electric mobility
- Solar/wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Lighting

Specification		
Electrical Characteristics	Nominal Voltage	48 V
	Nominal Capacity	100Ah(C5,25°C)
	Energy	4800Wh
	Internal Resistance	≤30 mΩ
	Cycle Life	≥4000 cycles@1C 100% DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @ 0.2C
	Efficiency of Discharge	96-99%@1C
Standard Charge	Charge Mode	54.8 ±0.2V
	Charge cut-off voltage	0.2C Charge to 54.8V, then 54.8V Charge to 0.02C cut-off
	Charge current	20A
	Max charge current	50A
	Continuous current	100A

Standard Discharge	Max Pulse current	150A(<3s)
	Discharge cut-off voltage	37.5V
	Continuours discharge current	100A
Environmental	Storage Temperature	0°C to 45°C (32F to 113F)@60±25% Relative Humidity
	Charge Temperature	0°C to 45°C (32F to 113F)@60±25% Relative Humidity
	Discharge Temperature	0°C to 45°C (32F to 113F)@60±25% Relative Humidity
Mechanical	Cell & Method	3.2V 50AH-15S2P
	Case	Iron
	Dimensions	482*430*222 mm
	Weight	50 kg
	Terminal	100A though terminal
	Protocol	RS485/CAN/RS232