



LFP 48V 140Ah



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	140 Ah(C5,25°C)
	Energy	6720 Wh
	Internal Resistance	≤40mΩ
	Cycle Life	≥4000 cycles@0.5C 100% DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @ 0.2C
	Efficiency of Discharge	96-99%@0.5C
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	37.5 V
	Continuous discharge current	100A
Environmental	Storage Temperature	0℃ to 55℃ (32F to 113F)@60±25% Relative Humidity
	Charge Temperature	0℃ to 45℃ (32F to 113F)@60±25% Relative Humidity
	Discharge Temperature	-20℃ to 60℃ (32F to 113F)@60±25% Relative Humidity
Mechanical	Cell & Method	3.2V 70AH-15S2P
	Plastic Case	ABS
	Dimensions	700*483*165mm
	Weight	75kg
	Terminal	100A
	Protocol	RS485/RS232/CAN