



## LFP 48V 50Ah



### 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	50Ah(C5,25°C)
	Energy	2400Wh
	Internal Resistance	≤30mΩ
	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	10 A
	Max charge current	50A
	Continuours current	50 A

Standard Discharge	Max Pulse current	100A(<3s)
	Discharge cut-off voltage	10V
	Continuours discharge current	50 A
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-15S1P
	Plastic Case	Iron
	Dimensions	482*350*132 mmm
	Weight	20.5 kg
	Terminal	RS485/RS232/CAN
	Protocol	Yes