

Lithium Iron Phosphate (LiFePO4) Battery

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.

• Lighter 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 ℃~60 ℃.

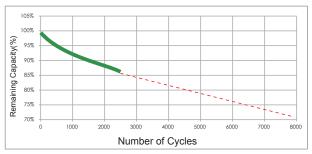
 Superior Safety: Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.

 Increased Flexibility: Modular design enables deployment of up to four batteries in series and up to ten batteries in parallel.

Application

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

Cycle Life Curve



Specification

	Nominal Voltage	51.2V
	Nominal Capacity	50Ah (C₅,25°C)
	Energy	2560Wh
Electrical	Internal Resistance	≤200mΩ
Characteristics	Cycle Life	>2000 cycles @0.2C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	54.8± 0.2V
	Charge Mode	0.2C to 58.4V, then 58.4,charge current 0.02C(CC/CV)
	Charger Current	20A
	Max. Charge Current	20A
	Charge Cut-off Voltage	59.2V± 0.2V
Standard Discharge	Continuous Current	50A
	Max. Pulse Current	100A(<15s)
	Discharge Cut-off Voltage	40V
Environmental	Charge Temperature	0 °C to 45 °C (32F to 113F) @60± 25% Relative Humidity
	Discharge Temperature	-20 $^{\circ}$ C to 60 $^{\circ}$ C (-4F to 140F) @60 $^{\pm}$ 25% Relative Humidity
	Storage Temperature	0 $^{\circ}$ C to 40 $^{\circ}$ C (32F to 104F) @60 $^{\pm}$ 25% Relative Humidity
	Water Dust Resistance	
Mechanical	Cell & Method	3.2V50AH-16S1P
	Plastic Case	2U standard case
	Dimensions (in./mm.)	482*410*89 mm
	Weight (lbs./kg.)	21.5Kg
	Terminal	50A through terminal
	Protocol (optional)	RS485/CAN
	BMS	16S50A