

Lithium Iron Phosphate (LiFePO4) Battery

PY-LFP25.6-50(25.6V,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.
- **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°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.



Application

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

Specification

Electrical Characteristics	Nominal Voltage	25.6V
	Nominal Capacity	50Ah (C ₅ ,25°C)
	Energy	1280Wh
	Internal Resistance	≤200mΩ
	Cycle Life	>2500 cycles @100% DOD; >3500 cycles @80% DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.5C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	29.2±0.2V
	Charge Mode	0.2C to 29.2V, then 29.2V, charge current to 0.02C(CC/CV)
	Charger Current	25A(Suggested)
	Max. Charge Current	50A
	Charge Cut-off Voltage	29.6V±0.2V
Standard Discharge	Continuous Current	50A
	Max. Pulse Current	100A(<3ms)
	Discharge Cut-off Voltage	20V
Environmental	Charge Temperature	0 °C to 45 °C (32F to 113F) @60±25% Relative Humidity
	Discharge Temperature	-20 °C to 60 °C (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	0 °C to 40 °C (32F to 104F) @60±25% Relative Humidity
	Water Dust Resistance	IP65
Mechanical	Cell & Method	
	Plastic Case	
	Dimensions (in./mm.)	260*168*225mm
	Weight (lbs./kg.)	11Kg
	Terminal	M6
	Protocol (optional)	NO
	SOC (optional)	NO

CYCLE LIFE vs. DEPTH OF DISCHARGE(DOD)

