

Lithium Iron Phosphate (LiFePO4) Battery

LFP12.8-50(12.8V,50AH)

Features of LiFePO4 Battery

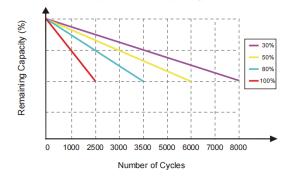
- Longer Cycle Life: Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.
- **Lighter Weight:** About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement 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

PY-LFP12.8-50 | Py-LFP12.8-50 | Constant VariageCharge | Noting |

CYCLE LIFE vs. DEPTH OF DISCHARGE(DOD)



Specification

	Nominal Voltage	12.8V
	Nominal Capacity	50Ah (C₅,25°C)
	Energy	640Wh
Electrical	Internal Resistance	≤200mΩ
Characteristics	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	14.6±0.2V
	Charge Mode	0.2C to 14.6V, then 14.6V, charge current to 0. 02C (CC/CV)
	Charger Current	20A(Suggested)
	Max. Charge Current	100A
	Charge Cut-off Voltage	15.6V±0.2V
Standard Discharge	Continuous Current	100A
	Max. Pulse Current	300A(<3s)
	Discharge Cut-off Voltage	9.6V
Environmental	Charge Temperature	0 $^{\circ}\mathrm{C}$ to 45 $^{\circ}\mathrm{C}$ (32F to 113F) @60 \pm 25% Relative Humidity
	Discharge Temperature	-20 $^{\circ}\mathrm{C}$ to 60 $^{\circ}\mathrm{C}$ (-4F to 140F) @60 \pm 25% Relative Humidity
	Storage Temperature	0 $^{\circ}\mathrm{C}$ to 40 $^{\circ}\mathrm{C}$ (32F to 104F) @60 \pm 25% Relative Humidity
	Water Dust Resistance	IP56
Mechanical	Cell & Method	
	Plastic Case	ABS
	Dimensions (in./mm.)	229*138*210mm
	Weight (lbs./kg.)	6Kg
	Terminal	M6
	Protocol (optional)	NO
	SOC (optional)	NO