

Lithium Iron Phosphate (LiFePO4) Battery

LFP12.8-300 (12.8V, 300AH)



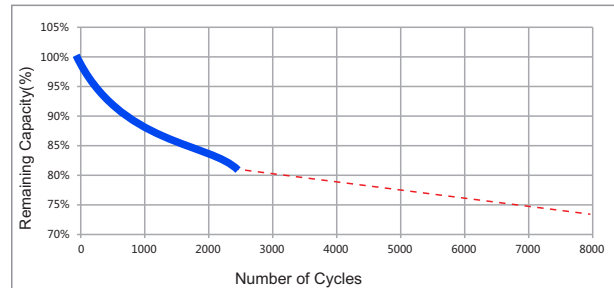
Features of LiFePO4 Battery

- **Longer Cycle Life:** Offers up to 20 times longer cycle life and 5 times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost.
- **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, over-charging or short circuit situation.
- **Increase Flexibility:** Modular design enables deployment of series or parallel connection under technical guidance.

Application



Cycle Life Curve



Technical Specification

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	300Ah (C ₅ ,25°C)
	Energy	3840Wh
	Internal Resistance	≤200mΩ
	Cycle Life	>2000 cycles @1C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	14.6±0.2V
	Charge Mode	0.2C to 14.6V, then 14.6,charge current 0.02C(CC/CV)
	Standard Charge Current	60A
	Max. Charge Current	150A
	Charge Cut-off Voltage	14.8V±0.2V
Standard Discharge	Standard Discharge Current	60A
	Max. Continuous Current	150A
	Discharge Cut-off Voltage	10V
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	3.2V50AH-4S6P
	Plastic Case	ABS
	Dimensions	522*268*218 mm
	Weight	30Kg
	Terminal	M8
	Protocol	Optional
	BMS	4S150A