Lithium Iron Phosphate (LiFePO4) Battery
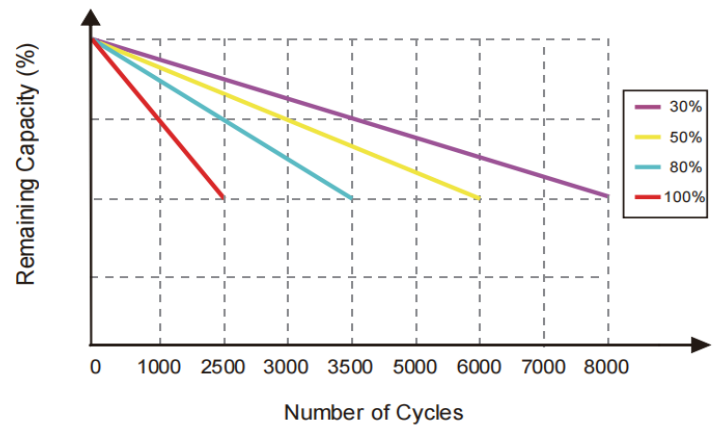
LFP51.2-300(51.2V 300AH)

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.

Application

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

CYCLE LIFE vs. DEPTH OF DISCHARGE(DOD)

Specification

Electrical Characteristics	Nominal Voltage	51.2V
	Nominal Capacity	300Ah (C_5,25℃)
	Energy	15360Wh
	Internal Resistance	≤500mΩ
	Cycle Life	>2500 cycles @100% DOD; >3500 cycles @80% DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	58.4±0.2V
	Charge Mode	0.2C to 58.4V, then 58.4,charge current 0.02C(CC/CV)
	Charger Current	≤50A(Suggested)
	Max. Charge Current	100A
	Charge Cut-off Voltage	59.2V±0.2V
Standard Discharge	Continuous Current	100A
	Max. Pulse Current	300A(<3s)
	Discharge Cut-off Voltage	40V
Environmental	Charge Temperature	0 ℃ to 45 ℃ (32F to 113F) @60±25% Relative Humidity
	Discharge Temperature	-20 ℃ to 60 ℃ (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	0 ℃ to 40 ℃ (32F to 104F) @60±25% Relative Humidity
	Water Dust Resistance	
Mechanical	Cell & Method	
	Plastic Case	6U standard case
	Dimensions (in./mm.)	482*570*280 mm
	Weight (lbs./kg.)	180Kg
	Terminal	100A through terminal
	Protocol (optional)	RS485
	BMS	16S100A