

## 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 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

## **Specification**

Remaining Capacity (%)	0	1000	2500		3500 mber o		6000	7000	8000	30% 50% 80% 100%
				inui	uner o	л Суск	28			

CYCLE LIFE vs. DEPTH OF DISCHARGE(DOD)

	Nominal Voltage	12.8V					
	Nominal Capacity	300Ah (C₅,25°C)					
	Energy	3840Wh					
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					
	Charge Voltage	14.6±0.2V					
	Charge Mode	0.2C to 14.6V, then 14.6V, charge current to 0. 02C (CC/CV)					
Standard Charge	Charger Current	50A(Suggested)					
	Max. Charge Current	100A					
	Charge Cut-off Voltage	15.6V±0.2V					
	Continuous Current	100A					
Standard Discharge	Max. Pulse Current	300A(<3s)					
	Discharge Cut-off Voltage	9.6V					
	Charge Temperature	0 $^{\circ}$ C to 45 $^{\circ}$ C (32F to 113F) @60 $\pm$ 25% Relative Humidity					
Environmental	Discharge Temperature	-20 $^{\circ}\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$					
Liiviioiiiieitai	Storage Temperature	0 $^{\circ}\mathrm{C}$ to 40 $^{\circ}\mathrm{C}$ (32F to 104F) @60 $\pm$ 25% Relative Humidity					
	Water Dust Resistance	IP56					
	Cell & Method						
	Plastic Case	ABS					
	Dimensions (in./mm.)	522*268*220mm					
Mechanical	Weight (lbs./kg.)	45Kg					
	Terminal	M8					
	Protocol (optional)	NO					
	SOC (optional)	NO					