



Lithium Iron Phosphate(LiFePO₄) Battery

ALFP-1240(12.8V 40Ah)

Features Of LiFePO₄ Battery

Longer Cycle Life: Offers up to 10 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.

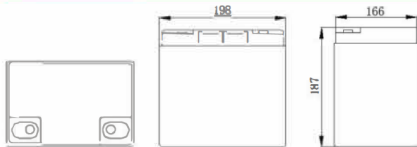
Higher Power: Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.

Wider Temperature Range: -20~60°C

Superior Safety: Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.



Physical Dimension-mm



Application

- Solar/Wind energy Storage
- Golf cart
- Back-up Power for UPS/EPS
- Tools

Specification

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	40Ah
	Nominal Energy	512Wh
	Internal Resistance (AC)	≤80mΩ
	Cycle Life	≥2000 cycles @80%DOD @35°C
	Months Self Discharge	3%/months
	Efficiency of Charge	≥97%
	Efficiency of Discharge	≥98%
Standard Charge	Charge Voltage	14.6V
	Charge Current	20A
	Charge Cut-off Voltage	14.6V
Standard Discharge	Continuous Current	40A
	Max . Pulse Current	50A (3S)
	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
	IP Class	IP30
Mechanical	Material System	LFP
	Plastic Case	ABS
	Dimensions (in. /mm.)	198*166*187mm
	Weight (lbs. /kg.)	5.9kg
	Peotocol(optional)	Bluetooth, shell color, IP rating