



# Lithium Iron Phosphate(LiFePO4) Battery

## ALFP-12100(12.8V 100Ah)

### Features Of LiFePO<sub>4</sub> 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.

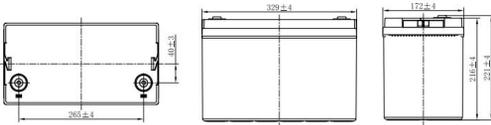
**Higher Power:** Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.

**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	100Ah
	Nominal Energy	1280w
	Internal Resistance ( AC )	≤80mΩ
	Cycle Life	≥3000 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	100A
	Max . Pulse Current	120A (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. )	329*172*219mm
	Weight ( lbs. /kg. )	12.9kg
	Peotocol( optional )	Bluetooth, shell color, IP rating