



Lithium Iron Phosphate (LiFePO₄) Battery

ALFP-12100(12.8V 100Ah)

LiFePo₄ Features

Longer Cycle Life: Up to 5 times the cycle life of a lead acid battery.

Lighter Weight: About 60% lighter than an equivalent lead acid battery.

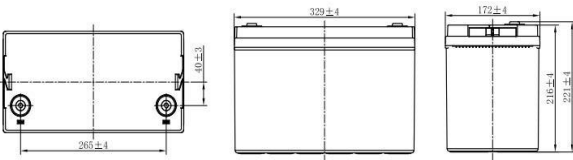
Higher Power: Delivers twice the power of a lead acid battery while maintaining high energy capacity.

Lead Acid Replacement: 'Drop-in' replacement for lead acid batteries.

Superior Safety: Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion.



Physical Dimensions



Applications

- Solar/Wind Energy Storage
- Back-up Power for UPS/EPS Systems
- Power Tools
- Camping Applications
- Surveillance/Alarm Systems

Specifications

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	100Ah
	Nominal Energy	1280Wh
	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	100A
	Max. Pulse Current	120A (3S)
	Discharge Cut-Off Voltage	10V
Environmental	Charge Temperature	0°C to 45°C @60±25%Relative Humidity
	Discharge Temperature	-10°C to 50°C @60±25%Relative Humidity
	Storage Temperature	0°C to 40 C @60±25%Relative Humidity
	IP Class	IP30
Mechanical	Material System	LFP
	Case	ABS
	Dimensions	329*172*219mm
	Weight	11kg