

Features

Longer Cycle Life : Offer up to 10 times longer cycle life and five times longer float/calendar life than lead acid battery, helping it 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.

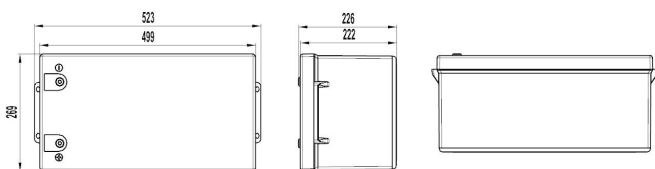
Higher Power : Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.

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.



Dimension-mm



Application

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

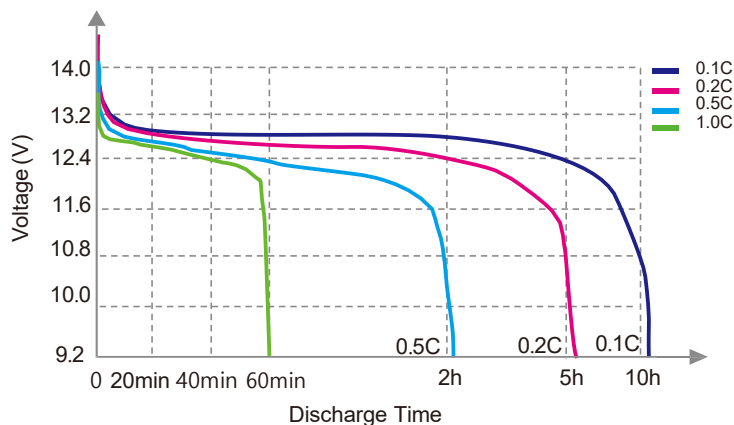
Specification

Basic Parameters	Rated Voltage	12.8V
	Rated Capacity	300Ah
	Rated Energy	3840wh
	Internal Resistance (AC)	≤80mΩ
	Cycle Life	≥3000 cycles @80%DOD
	Self Discharge	1%/months
	Efficiency of Charge	≥97%
	Efficiency of Discharge	≥98%
Charge	Charge Voltage	14.2V
	Charge Current (Recomm.)	60A
	Charge Current (Max.)	200A
Discharge	Discharge Cut-off Voltage	10.0V
	Discharge Current(Recomm.)	150A
	Pulse Current	220A (3S)
Environmental	Charge Temperature	0°C to 55°C(32F to 131F)@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
Physical Characteristics	IP Class	IP30
	Terminal	M8
	Plastic Case	ABS
	Dimensions (in. /mm.)	522*267*220mm
	Weight (lbs. /kg.)	33kg
	Others(optional)	Bluetooth,Shell color,IP rating

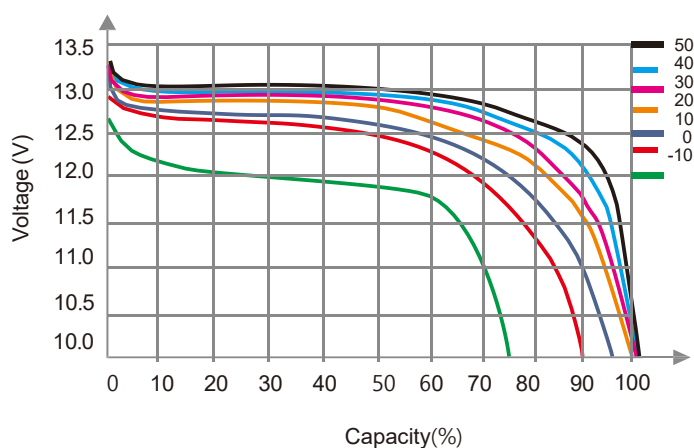
Lithium Iron (LiFePO₄) Battery

ALFP-12300(12.8V 300Ah)

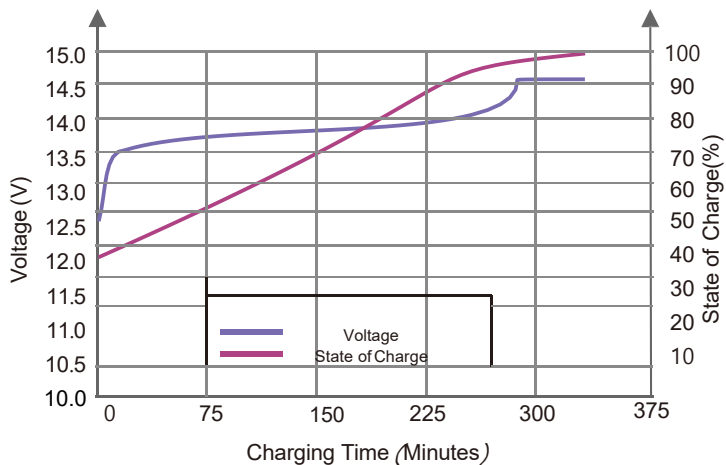
Different Rate Discharge Curve(25°C)



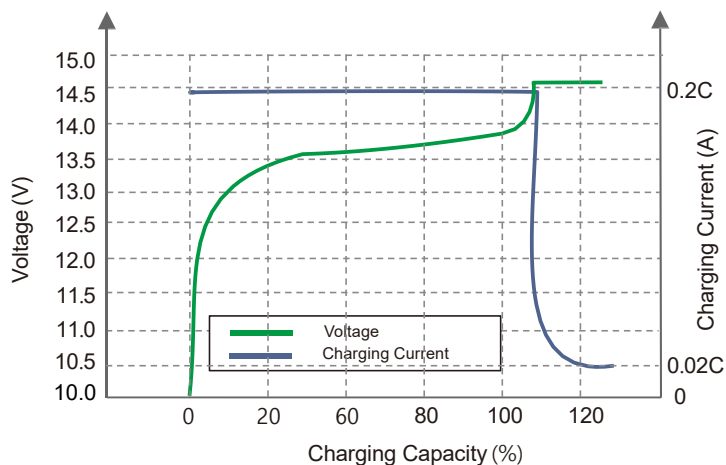
Different Temperature Discharge Curve(0.5C)



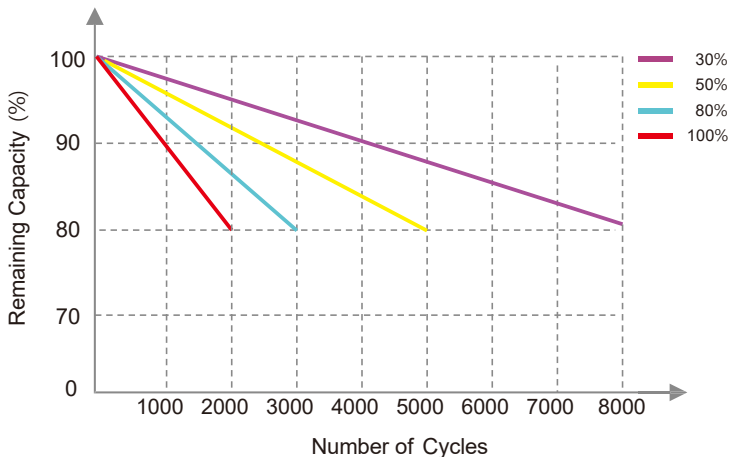
State of Charge Curve(0.2C, 25°C)



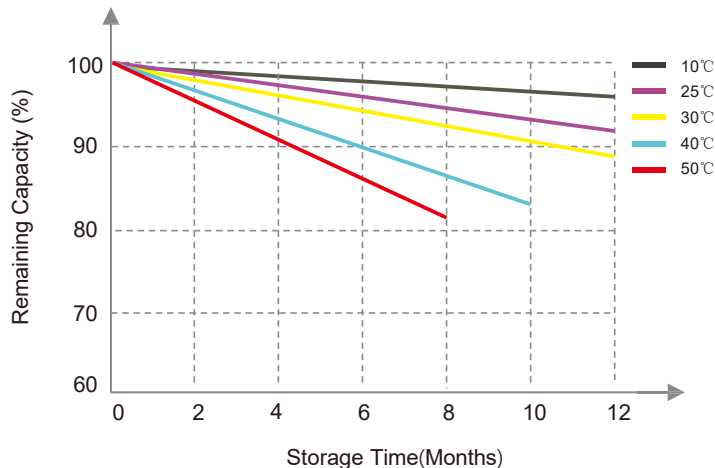
Charging Characteristics(0.2C, 25°C)



Different DOD Discharge Cycle Life Curve



Different Temperature Self Discharge Curve



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