

Features Of LiFePO₄ Battery

- Longer Cycle Life:

Offers up to 10 times longer cycle life and fivetimes 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 acidbattery. A'drop in' replacement for lead acid batteries.
- Higher Power:

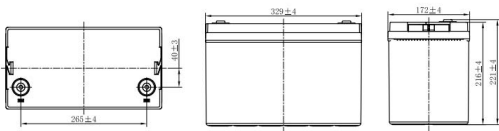
Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.
- Wider Temperature Range:

-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



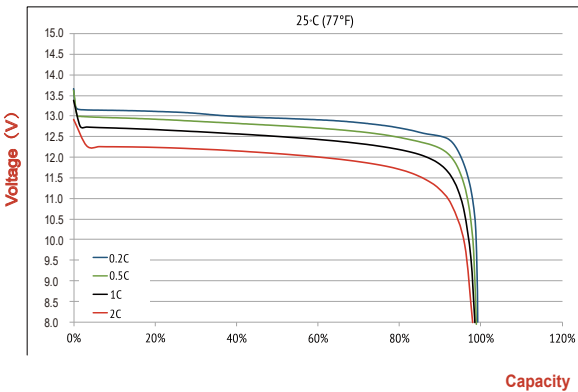
Application

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

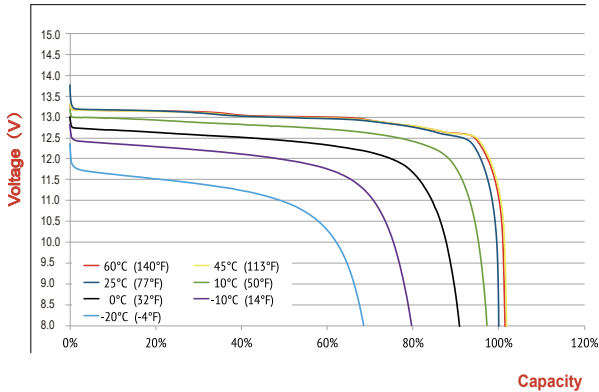
Specification

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	100Ah
	Nominal Energy	1280w
	Internal Resistance (AC)	≤80mΩ
	Cycle Life	2000-6000 cycles
	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
	Others(optional)	Bluetooth, shell color, IP rating

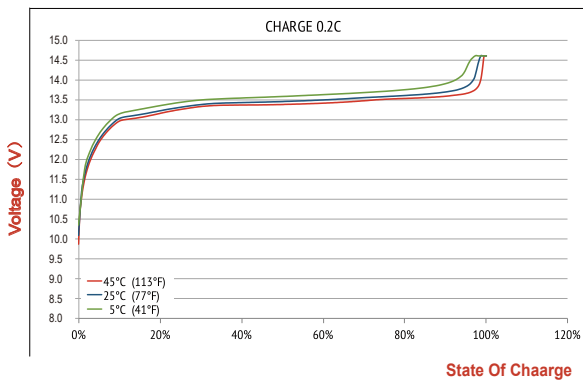
» Discharge Voltage Characteristics At Various Rates



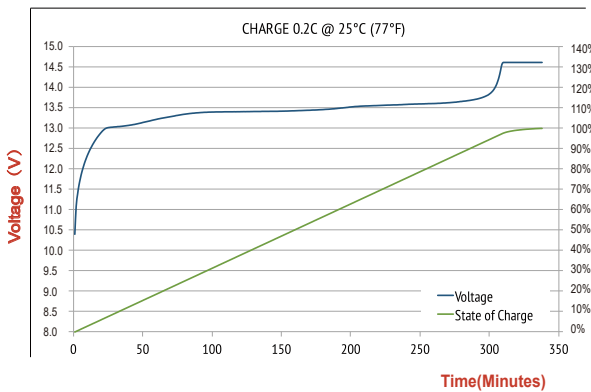
» Discharge Voltage Characteristics At Various Temperatures



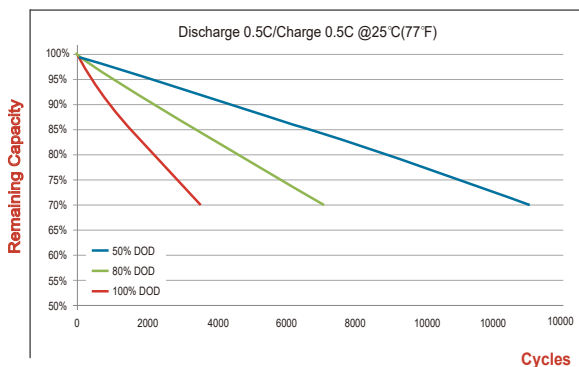
» Charge Voltage Characteristics At Various Temperatures



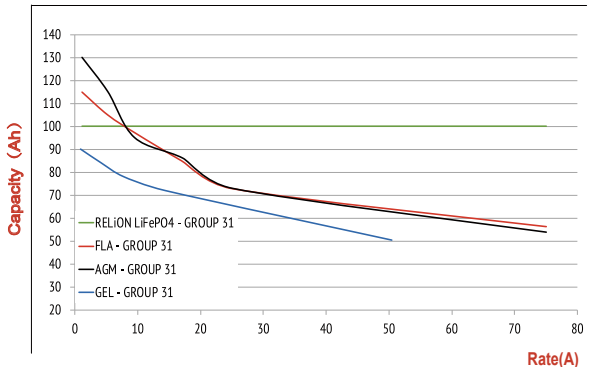
» Charge Voltage And State Of Charge(SOC)



» Cycle Life Vs.Depth Of Discharge(DOD)



» Capacity Of Relion LiFe PO4 Vs.Lead At Various Rates Of Discharge



CAUTIONS »

- ▶ Do NOT Expose The Battery To Water.
- ▶ Only Use LiFePO4 Charger.
- ▶ Do Not Short Circuit, Crush Or Disassemble.
- ▶ Do Not Expose The Battery To Fire & High Temperature.
- ▶ Store At 50% Capacity, Recharge Every 3 Months. The Storage Area Should Be Clean, Cool, Dry And Ventilated.