

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 ti 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.

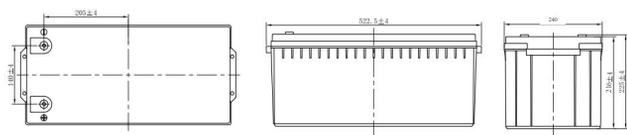
Higher Power: Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.

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



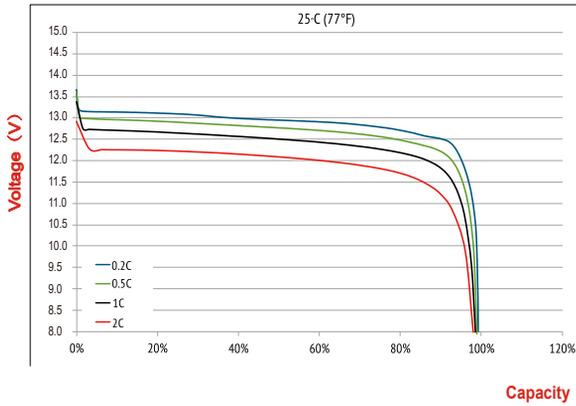
Application

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

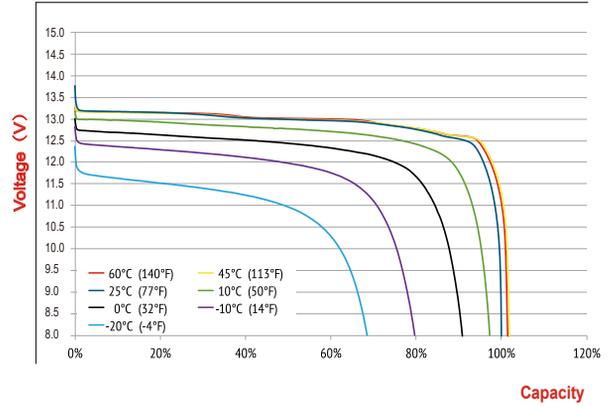
Specification

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	300Ah
	Nominal Energy	3840Wh
	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	60A
	Charge Cut-off Voltage	14.6V
Standard Discharge	Continuous Current	150A
	Max . Pulse Current	200A(3S)
	Discharge Cut-off Voltage	10V
Environmental	Charge Temperature	0°C to 45°C(32F to 113F)@60±25%Rela _{ve} Humidity
	Discharge Temperature	-20°C to 60°C(-4F to 140F)@60±25%Rela _{ve} Humidity
	Storage Temperature	0°C to 40°C(32F to 104F)@60±25%Rela _{ve} Humidity
	IP Class	IP30
Mechanical	Material System	LFP
	Plastic Case	ABS
	Dimensions (in. /mm.)	522*216*240mm
	Weight (lbs. /kg.)	30kg
	Others(optional)	Bluetooth

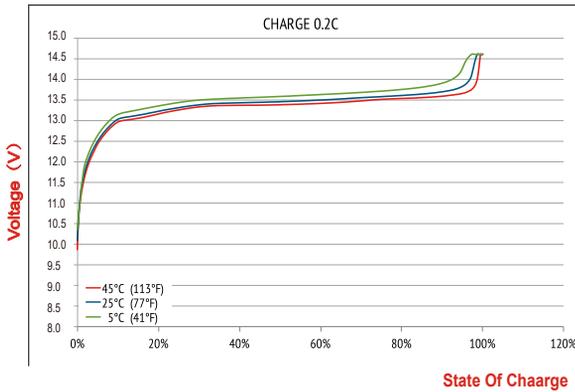
Discharge Voltage Characteristics At Various Rates



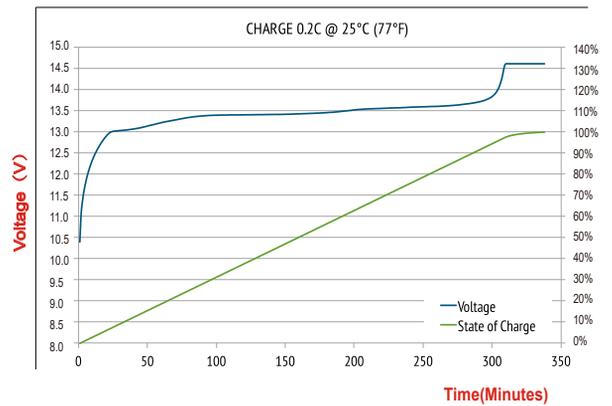
Discharge Voltage Characteristics At Various Temperatures



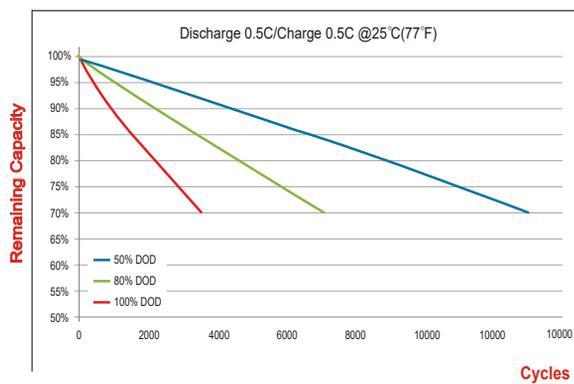
Charge Voltage Characteristics At Various Temperatures



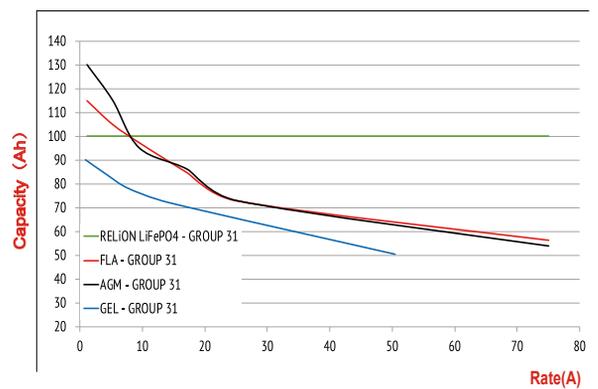
Charge Voltage And State Of Charge(SOC)



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.