

Features Of LiFePO4 Battery

Longer Cycle Life:

Offers up to 20 times longer cycle life and five times longer float life than sealed lead acid AGM battery, helping to minimize replacement cost and reduce total cost.

Lighter Weight:

About 40% of the weight of a comparable sealed lead acid AGM battery.

Higher Power:

Delivers twice power of sealed lead acid AGM battery. Even high discharge rate, while maintains high energy capacity.

Wider Temperature Range:

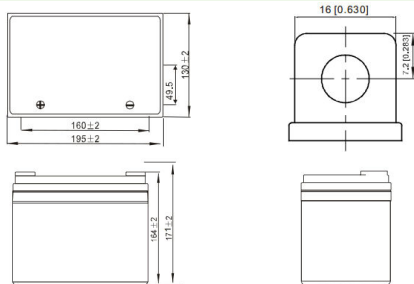
-40°C ~ 60°C

Superior Safety:

Lithium Iron Phosphate Chemistry



Physical Dimension- mm



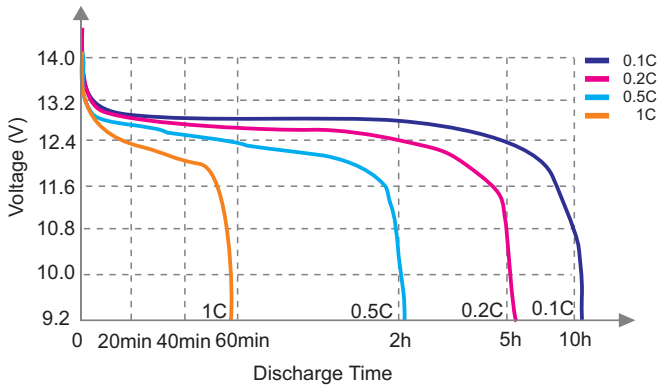
Typical Applications

- Wheelchairs and scooters
- Solar/wind energy storage
- Back-up power for small UPS
- Golf trolleys & buggies
- Electric bikes
- Tools

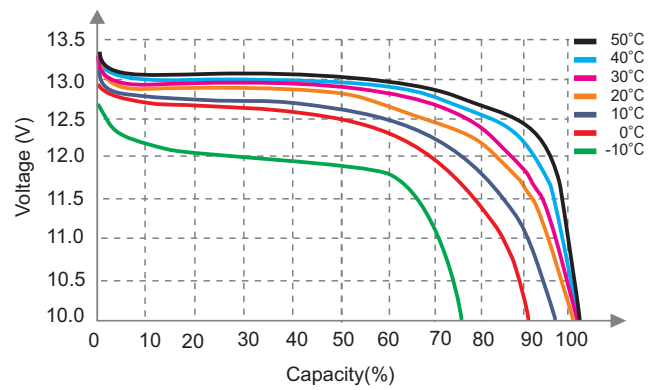
Specification

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	50Ah
	Energy	640Wh
	Internal Resistance(AC)	≤15mΩ
	Cycle Life	>2000 cycles @1C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.5C
	Efficiency of Discharge	96~99% @0.5C
Standard Charge	Charge Voltage	14.6±0.2V
	Charge Mode	0.2C to 14.6V, then 14.6V, charge current to 0.02C (CC/CV)
	Charge Current	25A
	Max. Charge Current	25A
	Charge Cut- off Voltage	14.6V±0.2V
Standard Discharge	Continuous Current	50A
	Max. Pulse Current	90A(<3s)
	Discharge Cut-off Voltage	8V
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	-20 °C to 45 °C (-4F to 113F) @60±25% Relative Humidity
	IP Class	IP65
Mechanical	Plastic Case	ABS
	Approx. Dimensions	195mm*133mm*171mm (7.67in.* 5.23in.* 6.73in.)
	Approx. Weight	6.0kg (13.2lbs)
	Terminal	M6
Communicationl	Bluetooth	Built-in Bluetooth for easily monitoring SOC, SOH and more via APP

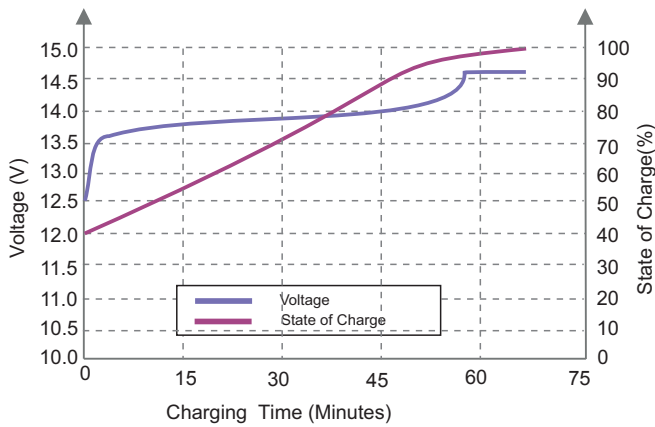
Different Rate Discharge Curve(25°C)



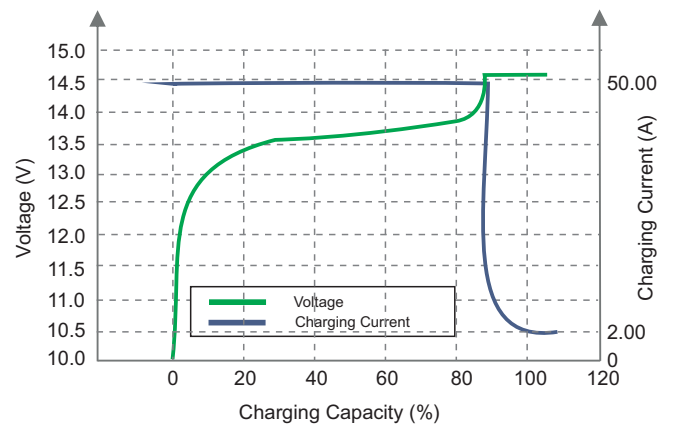
Different Temperature Discharge Curve(50A,25°C)



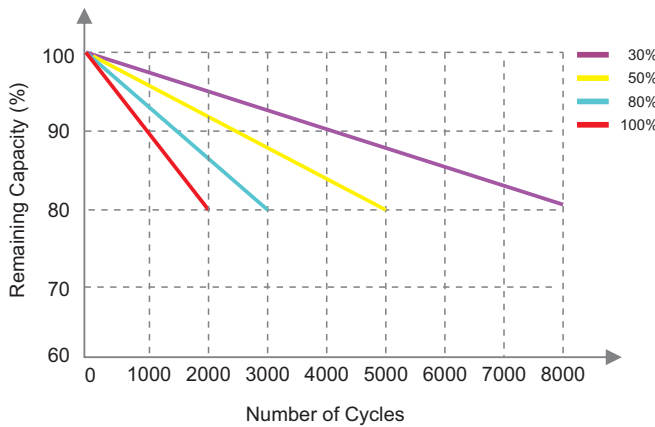
State of Charge Curve(50A,25°C)



Charging Characteristics(50A,25°C)



Different DOD Discharge Cycle Life Curve(1C)



Different Temperature Self Discharge Curve

