

Features of LiFePO₄ Battery

Longer Cycle Life: Offers up to 20 times longer cycle life and five times 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 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: -10°C~50°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



Dimension:
L231*W145*H211mm
Color: Black

Terminal Specifications:
M8 Terminal



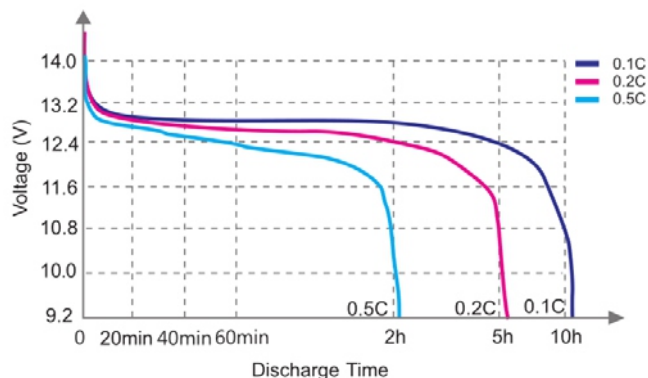
Typical Applications

Solar/Wind Energy Storage
Back-up Power for UPS/ EPS
Telecommunication
Low Speed Electric Vehicles
Marine Boats
DC Power Supply
Auto Control System
Power Tools
Electric Toys

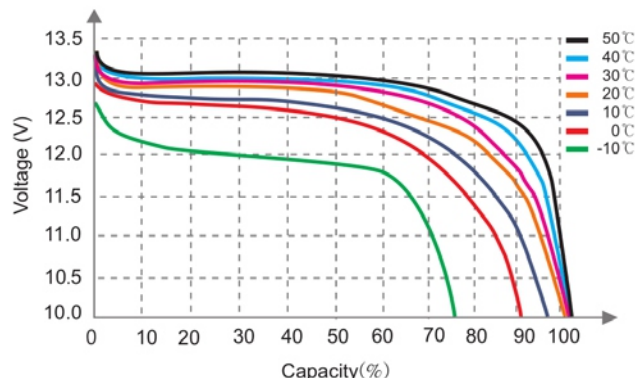
Specification

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	50Ah
	Minimum Capacity	50Ah
	Energy	640Wh
	Cycle Life	>3000 cycles @0.5C 80%DOD @25°C
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.5C
	Efficiency of Discharge	96~99% @0.5C
	BMS Functions	Over charge, over discharge, over current, short circuit and temperature protection
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 (Can be customized)
	Max. Charge Current	50A
	Charge Cut-off Voltage	14.6V±0.2V
Standard Discharge	Max Continuous Discharge Current	50A (Can be customized)
	Peak Discharge Current	100A 1-3S
	Discharge Cut-off Voltage	10V±0.5V
Environmental	Charge Temperature	0 °C to 55 °C (32F to 131F) @50±25% Relative Humidity
	Discharge Temperature	-20 °C to 60 °C (-4F to 140F) @50±25% Relative Humidity
	Storage Temperature	-20 °C to 45 °C (-4F to 113F) @50±25% Relative Humidity
	IP Class	IP65
Mechanical	Plastic Case	ABS
	Approx. Dimensions	L231*W145*H211mm
	Approx. Weight	9.0 Kg

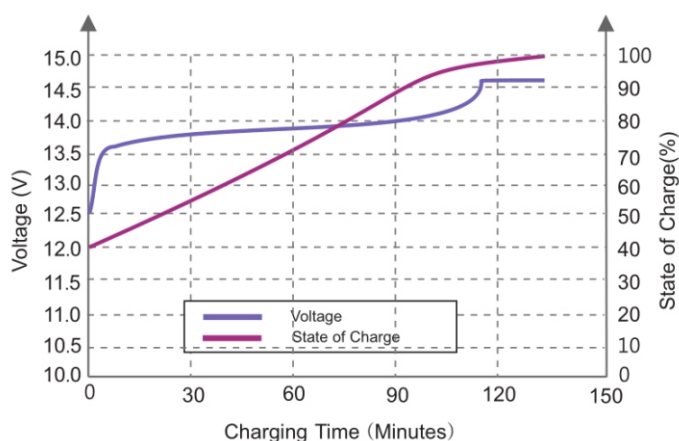
Different Rate Discharge Curve (25°C)



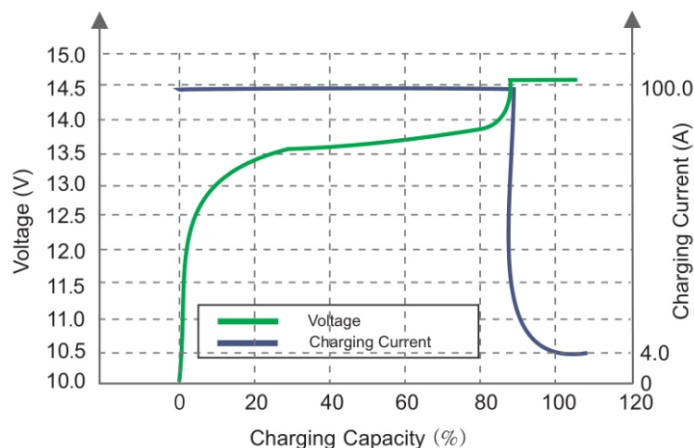
Different Temperature Discharge Curve (0.5C)



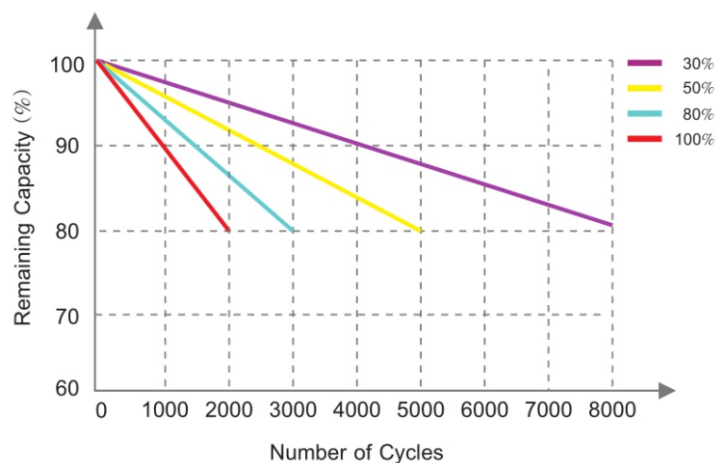
State of Charge Curve (0.5C, 25°C)



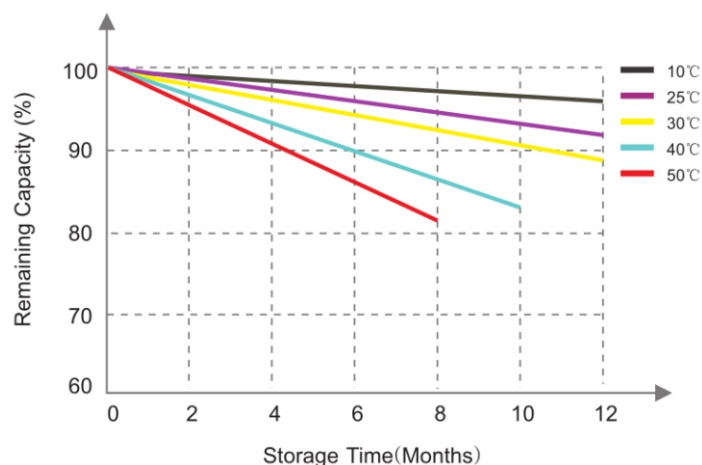
Charging Characteristics (0.5C, 25°C)



Different DOD Discharge Cycle Life Curve (0.5C)



Different Temperature Self Discharge Curve



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