12.8V-20Ah Lithium Iron Phosphate (LiFePO4) Battery

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: -20 C~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

Dimension:
L181XW76xH165mm
Color: Black

Terminal Specifications:
M6 Terminal

Typical Applications

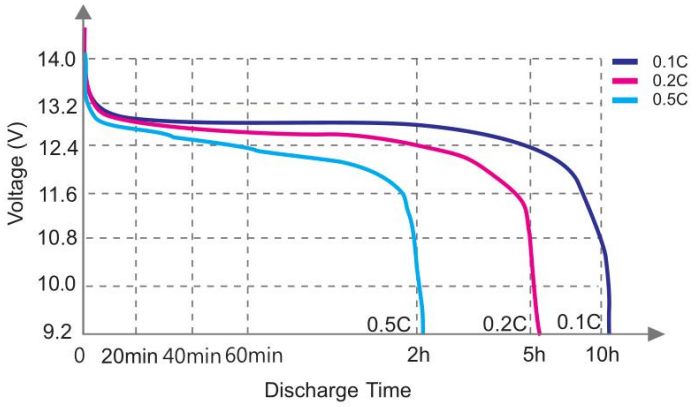
- Solar/Wind Energy Storage
- Back-up Power for UPS/ EPS
- Telecommunication
- Low Speed Electric Vehicles
- Marine Boats
- DC Power Supply
- Auto Control System
- Power Tools
- Electric Toys

Specification

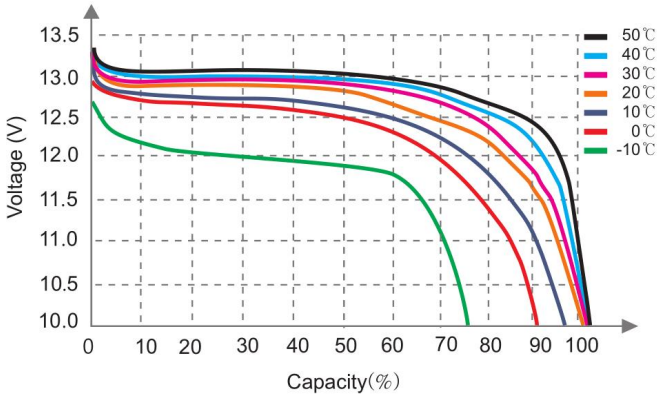
Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	20Ah
	Minimum Capacity	19.5Ah
	Energy	256Wh
	Cycle Life	>2000 cycles @0.2C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.2C
	Efficiency of Discharge	96~99% @0.2C
	BMS Functions	Over charge, over discharge, over current, short circuit and temperature protection
Standard Charge	Charge Voltage	14.4V
	Charge Mode	0.2C to 14.4V, then 14.4V,charge current to 0.02C (CC/CV)
	Charge Current	4A
	Max. Charge Current	10A
Standard Discharge	Standard Discharge Current	4A
	Max Continuous Discharge Current	20A
	Discharge Cut-off Voltage	10V±0.5V
Environmental	Charge Temperature	0 ℃ to 55 ℃ (32F to 131F) @60±25% Relative Humidity
	Discharge Temperature	-20 ℃ to 60 ℃ (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	-20 ℃ to 45 ℃ (-4F to 113F) @60±25% Relative Humidity
	IP Class	IP65
Mechanical	Plastic Case	ABS
	Approx. Dimensions	L181xW76xH165mm
	Approx. Weight	2.4kG

12.8V-20Ah Lithium Iron Phosphate (LiFePO4) Battery

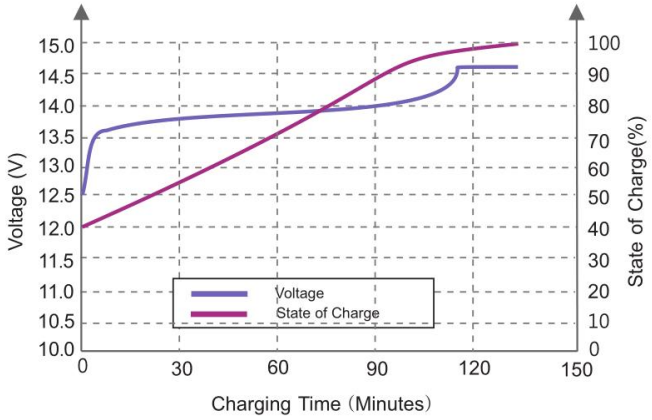
Different Rate Discharge Curve (25℃)



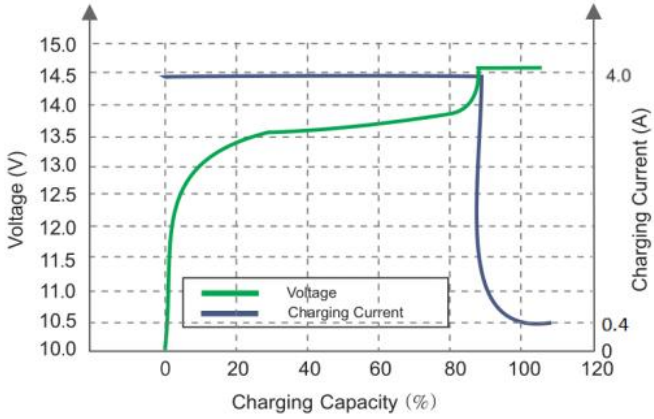
Different Temperature Discharge Curve (0.2C)



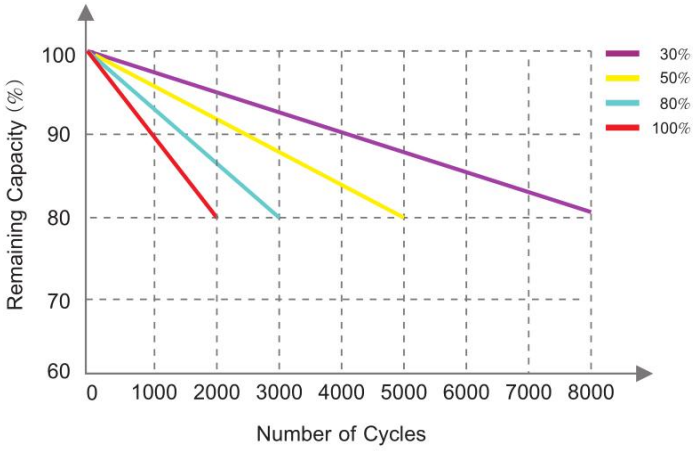
State of Charge Curve (0.2C, 25℃)



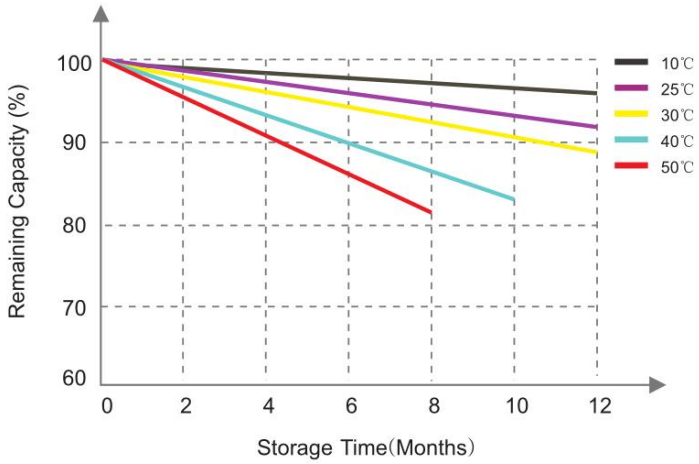
Charging Characteristics (0.2C, 25℃)



Different DOD Discharge Cycle Life Curve (0.2C)



Different Temperature Self Discharge Curve



SHENZHEN HIMAX ELECTRONICS CO.,LTD.
Building B, Nantong Avenue NO.5, Tongle Community, Baolong Street, Longgang Shenzhen China