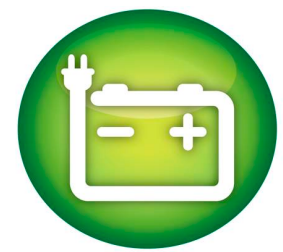


LFP12-100 12.8V 100Ah



LiFePO4 batteries with internal BMS

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.

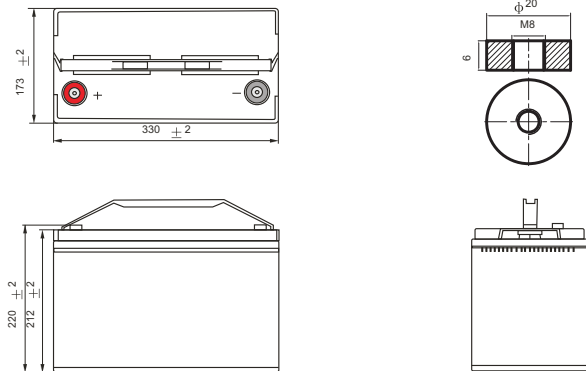
Wider Temperature Range: -20 C~60 C.

Superior Safety: Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.

Performance Characteristics

Nominal Voltage	12.8V
Nominal Capacity	100Ah
Energy	1280Wh
Internal Resistance(AC)	≤20mΩ
Cycle Life	>2000 cycles @ 1C 100%DOD
Months Self Discharge	<3%
Efficiency of charge	100% @ 0.5C
Efficiency of Discharge	96~99% @ 1C
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	50A
Max. Charge Current	100A
Charge Cut-off Voltage	14.6V±0.2V
Rated Discharge Current	50A
Max. Discharge Current	100A
Discharge Cut-off Voltage	10V
Peak Discharge Current	270A @ 10s
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
Plastic Case	ABS
Approx. Dimensions	330mm*173mm*220mm (12.99in.*6.81in.*8.66in.)
Approx. Weight	13.60kg
Terminal	M8
Communication Interface	/
Protection	Over charge, Over discharge, Over temperature, Short circuit
Certification	UN38.3, CE
Parallels Support	-
Series Support	Max, 4 Sets

Physical Dimension (mm)

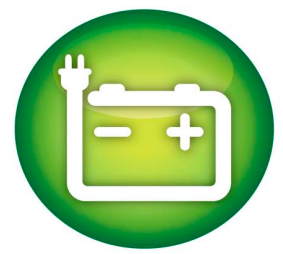


Applications

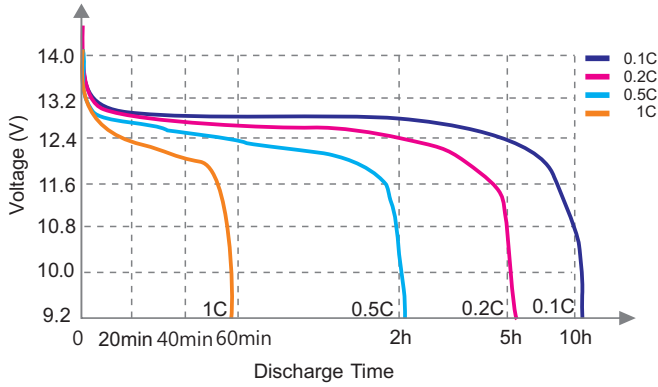
Wheelchairs and scooters
Solar / wind energy storage
Back-up power for small UPS
Golf trolleys & buggies
Electric bikes
Tools

(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

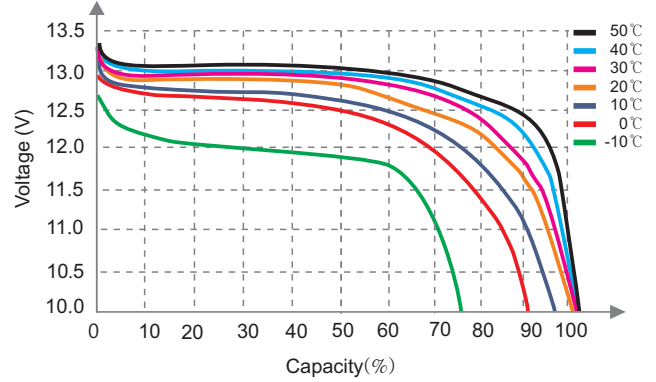
LFP12-100 12.8V 100Ah



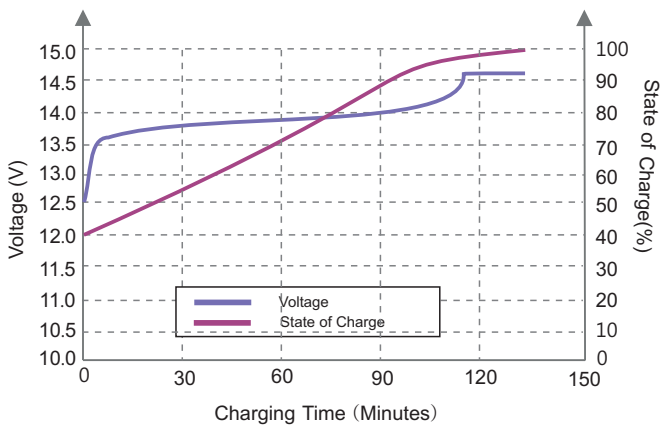
Different Ratio Discharge Curve (25°C)



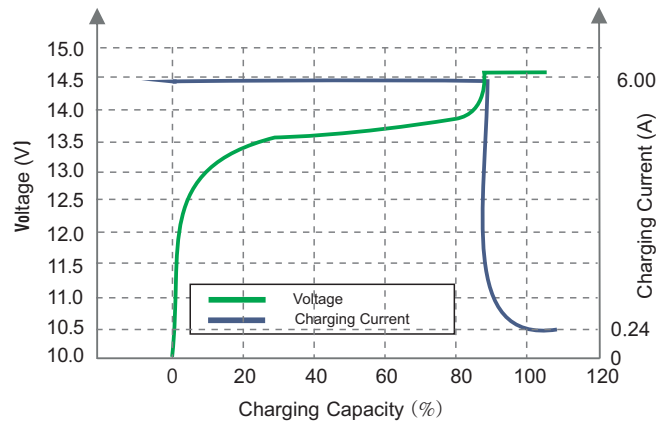
Different Temperature Discharge Curve (0.5C)



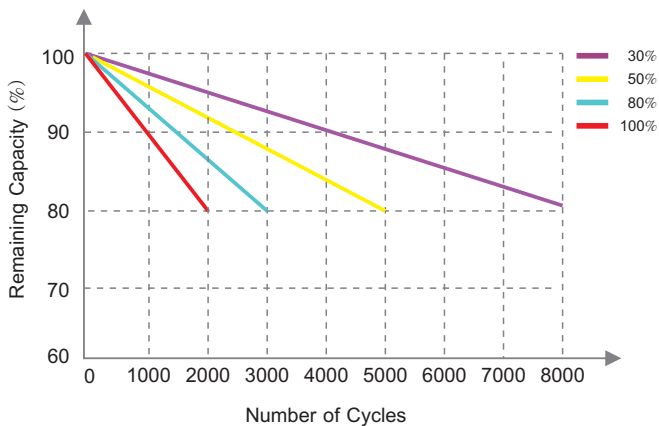
State of charge Curve (0.5°C, 25°C)



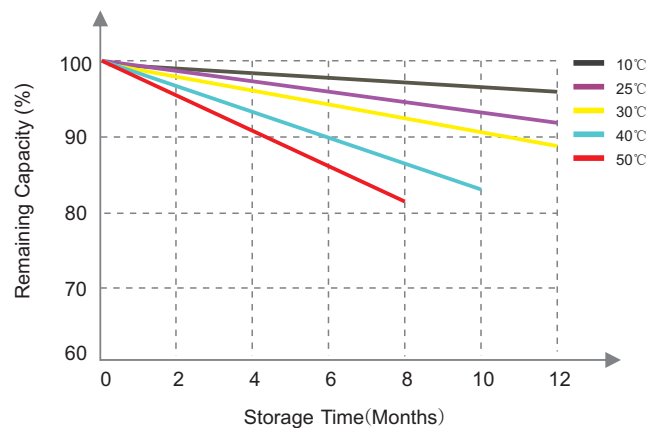
Charging Characteristics (0.5°C, 25°C)



Different DOD Discharge Cycle Life Curve(1C)



Different Temperature Self Discharge Curve



IMPORTANT NOTE: The specifications presented herein are subject to revision without notice.