

# LITHIUM BATTERY SURGE 100

LP100-12 (12V100AH)

## 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:

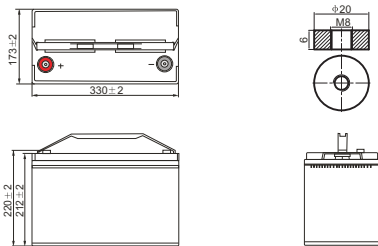
-20°C ~ 60°C

### 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

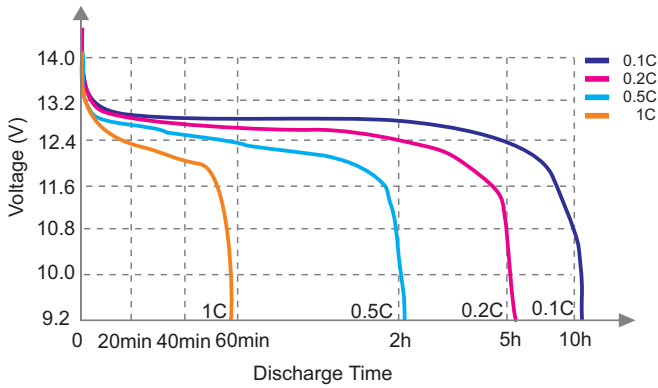
## Specification

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	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% @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	50A
	Max. Charge Current	100A
	Charge Cut- off Voltage	14.6V±0.2V
Standard Discharge	Continuous Current	100A
	Max. Pulse Current	120A(<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	330mm*173mm*220mm (12.99in.*6.81in.*8.66in.)
	Approx. Weight	13.60kg (29.98lbs)
	Terminal	M8

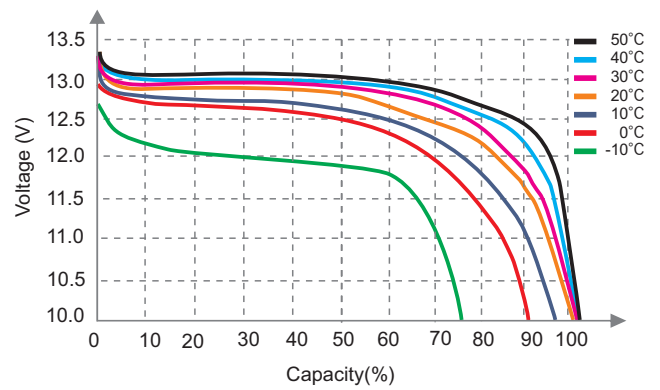
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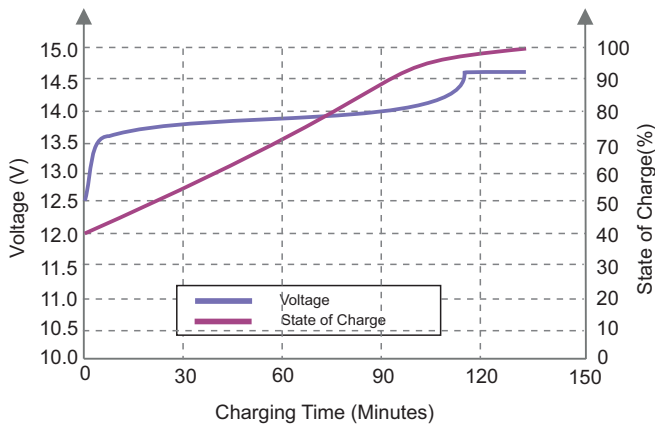
Different Rate Discharge Curve(25°C)



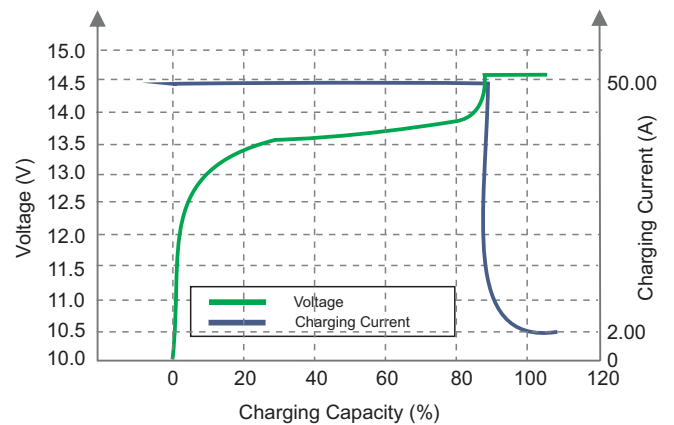
Different Temperature Discharge Curve(0.5C)



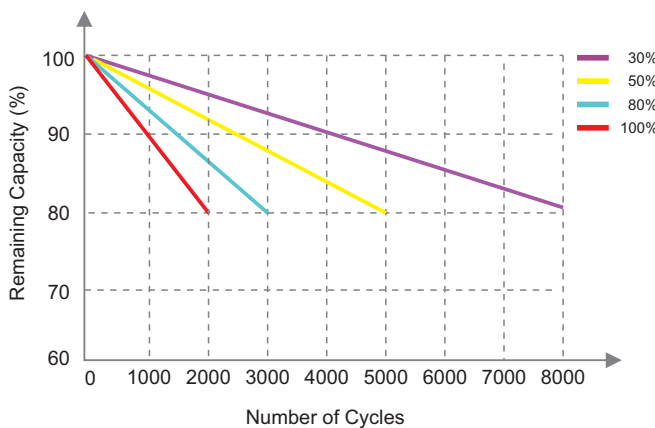
State of Charge Curve(0.5C, 25°C)



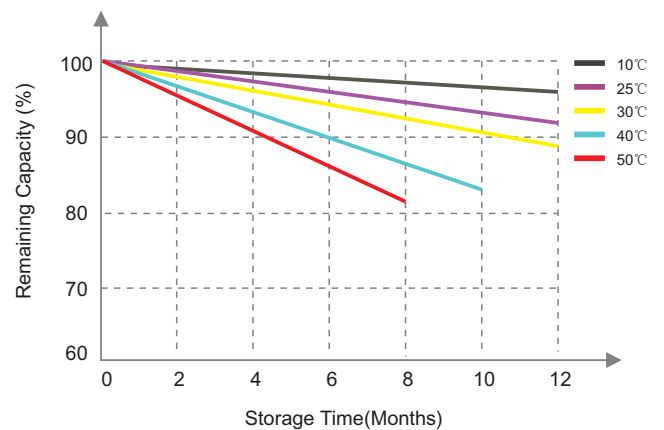
Charging Characteristics(0.5C, 25°C)



Different DOD Discharge Cycle Life Curve(1C)



Different Temperature Self Discharge Curve



LP Series - 01-N-EN

Specifications subject to change without prior notice.