

Lithium Iron Phosphate (LiFePO4) Battery LFeLi-12100M (12.8V100Ah)

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











Typical Applications

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

Specification

	Nominal Voltage	12.8V
	Nominal Capacity	100Ah
	Energy	1280Wh
Electrical	Internal Resistance(AC)	≤20mΩ
Characteristics	Cycle Life	>2000 cycles @1C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.5C
	Efficiency of Discharge	96~99% @0.5C
	Charge Voltage	14.6±0.2V
Standard Charge	Charge Mode	0.2C to 14.6V, then 14.6V, charge current to 0.02C (CC/CV)
	Charge Current	50A
	Max. Charge Current	100A
Standard Discharge	Charge Cut-off Voltage	14.6V±0.2V
	Rated Discharge Current	50A
	Max. Discharge Current	100A
	Discharge Cut-off Voltage	10V
Environmental	Charge Temperature	0 $^{\circ}$ to 55 $^{\circ}$ (32F to 131F) $@60\pm25\%$ Relative Humidity
	Discharge Temperature	−20 $^{\circ}$ C to 60 $^{\circ}$ C (−4F to 140F) $@$ 60 \pm 25% Relative Humidity
	Storage Temperature	−20 $^{\circ}$ C to 45 $^{\circ}$ C (-4F to 113F) $@60\pm25\%$ Relative Humidity
	IP Class	IP65
Mechanical	Plastic Case	ABS
	Approx. Dimensions	330mm*173mm*220mm (12.99in.*6.81in.*8.66in.)
	Approx. Weight	13.10kg (28.66lbs)
	Terminal	M8

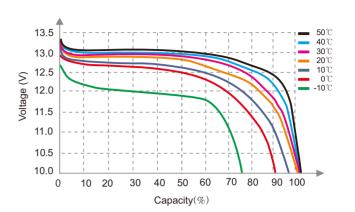


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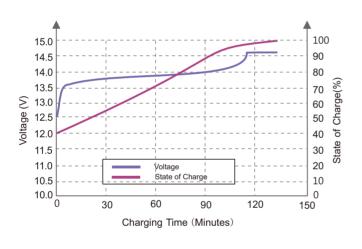
Different Rate Discharge Curve(25℃)

14.0 13.2 12.4 10.0 10.1C 0.2C 0.5C 10.5C 10.0 10.0 9.2 0.3C 0.5C 0.5C 10.5C 1

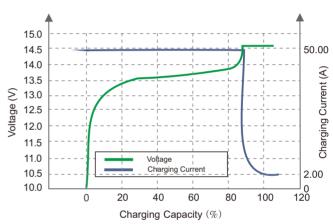
Different Temperature Discharge Curve(0.5C)



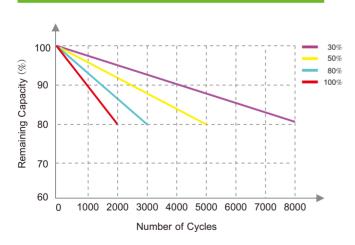
State of Charge Curve(0.5C, 25°C)



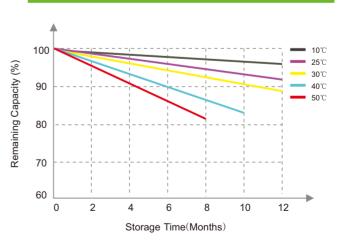
Charging Characteristics(0.5C, 25℃)



Different DOD Discharge Cycle Life Curve(1C)



Different Temperature Self Discharge Curve



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