

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.

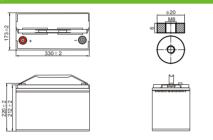
Lighter Weight: About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.

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

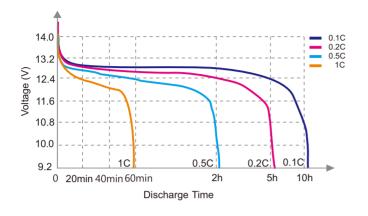
Electrical Characteristics Standard Charge	Nominal Voltage	12.8V
	Nominal Capacity	100Ah
	Energy	1280Wh
	Internal Resistance(AC)	≤ 20m Ω
	Cycle Life	>3000 cycles @0.5C 80%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.5C
	Efficiency of Discharge	96~99% @1C
	Charge Voltage	14.6±0.2V
	Charge Mode	0.2C to 14.6V, then 14.6V, charge current to 0. 02C (CC/CV)
	Charge Current	50A
	Max. Charge Current	100A
Standard Discharge	Charge Cut-off Voltage	14.6V±0.2V
	Rated Discharge Current	50A
	Max. Discharge Current	100A
Environmental	Discharge Cut-off Voltage	10V
	Charge Temperature	0 $^\circ \rm C$ to 55 $^\circ \rm C$ (32F to 131F) @60 \pm 25% Relative Humidity
	Discharge Temperature	–20 $^\circ\!\!\mathrm{C}$ to 60 $^\circ\!\!\mathrm{C}$ (–4F to 140F) $@60\pm25\%$ Relative Humidity
	Storage Temperature	–20 $^\circ\!\mathrm{C}$ to 45 $^\circ\!\mathrm{C}$ (-4F to 113F) $@60{\pm}25\%$ 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





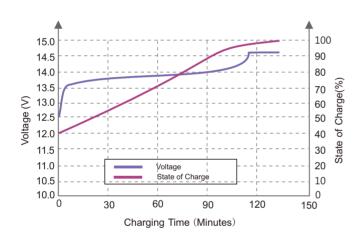
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Different Temperature Discharge Curve(0.5C)

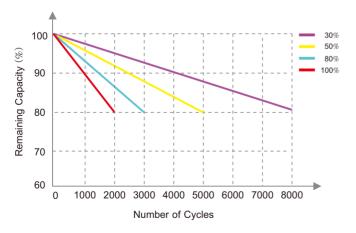


Different Rate Discharge Curve(25°C)

State of Charge Curve(0.5C, 25°C)



Different DOD Discharge Cycle Life Curve(0.5C)



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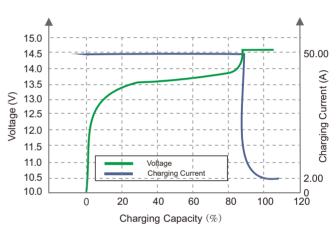


Power Storage Deutschland GmbH

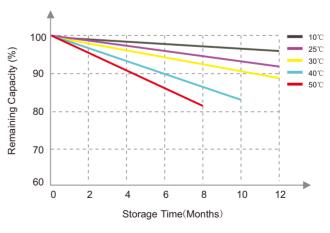
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13.5 **50**℃ 50 ℃ 40 ℃ 30 ℃ 20 ℃ 10 ℃ -10 ℃ 13.0 12.5 Voltage (V) 12.0 11.5 11.0 10.5 10.0 60 70 80 90 100 0 10 20 30 40 50 Capacity(%)

Charging Characteristics(0.5C, 25℃)



Different Temperature Self Discharge Curve



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