

Lithium Iron Phosphate (LiFePO4) Battery LFeLi-1250M (12.8V50Ah)

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.

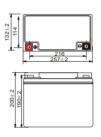
Lighter Weight: About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.

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	50Ah
	Energy	640Wh
Electrical	Internal Resistance(AC)	≤30mΩ
Characteristics	Cycle Life	>2000 cycles @1C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.5C
	Efficiency of Discharge	96~99% @1C
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	25A
	Max. Charge Current	50A
	Charge Cut-off Voltage	15.6V±0.2V
Standard Discharge	Continuous Current	80A
	Max. Pulse Current	100A(<3s)
	Discharge Cut-off Voltage	8V
Environmental	Charge Temperature	0 $^{\circ}\mathrm{C}$ to 55 $^{\circ}\mathrm{C}$ (32F to 131F) $@60\pm25\%$ Relative Humidity
	Discharge Temperature	−20 $^{\circ}$ C to 60 $^{\circ}$ C (−4F to 140F) $@60\pm25\%$ 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	257mm*132mm*200mm (10.12in.*5.20in.*7.87in.)
	Approx. Weight	7.00kg (15.43lbs)
	Terminal	M6

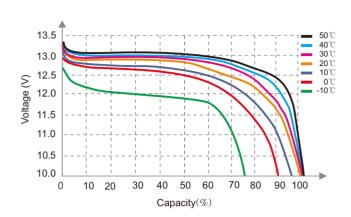


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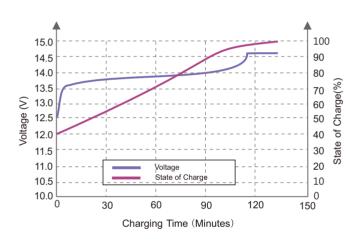
Different Rate Discharge Curve(25℃)

14.0 0.1C 0.2C 0.5C 1C 2C 13.2 Voltage (V) 12.4 11.6 10.8 10.0 0.2C 0.1C 9.2 0 20min 40min 60min 2h 5h 10h Discharge Time

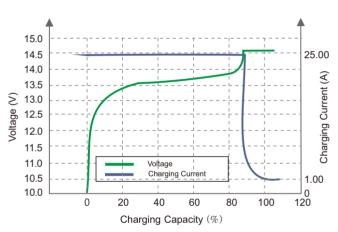
Different Temperature Discharge Curve(0.5C)



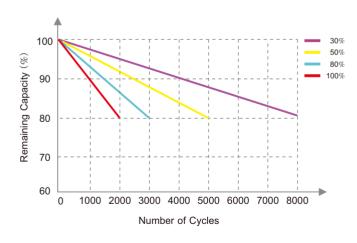
State of Charge Curve(0.5C, 25°C)



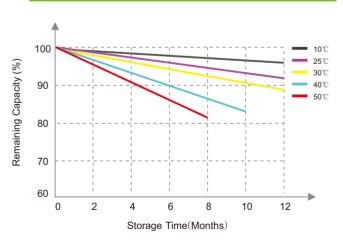
Charging Characteristics(0.5C, 25°C)



Different DOD Discharge Cycle Life Curve(1C)



Different Temperature Self Discharge Curve



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