

Lithium Iron Phosphate (LiFePO4) Battery LFeLi-1212M (12.8V12Ah)

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.

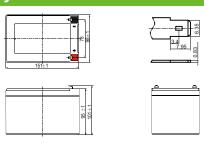
Lighter Weight: About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.

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

		1
	Nominal Voltage	12.8V
	Nominal Capacity	12Ah
	Energy	153.6Wh
Electrical	Internal Resistance(AC)	≤50mΩ
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	6A
	Max. Charge Current	12A
	Charge Cut-off Voltage	15.6V±0.2V
Standard Discharge	Continuous Current	24A
	Max. Pulse Current	30A(<3s)
	Discharge Cut-off Voltage	8V
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) $@60\pm25\%$ Relative Humidity
	Storage Temperature	$^{-20}$ °C to 45 °C (-4F to 113F) $@60\pm25\%$ Relative Humidity
	IP Class	IP65
Mechanical	Plastic Case	ABS
	Approx. Dimensions	151mm*98mm*101mm (5.95in.*3.86in.*3.98in.)
	Approx. Weight	1.90kg (4.19lbs)
	Terminal	T2

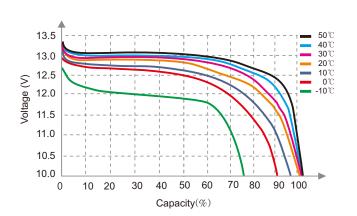


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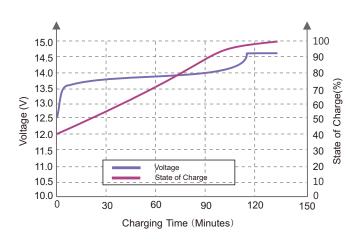
Different Rate Discharge Curve(25℃)

14.0 13.2 12.4 0 10.5 10.8 10.0 9.2 2 2C 1C 0.5C 0.2C 0.1C 0 20min 40min 60min 2h 5h 10h Discharge Time

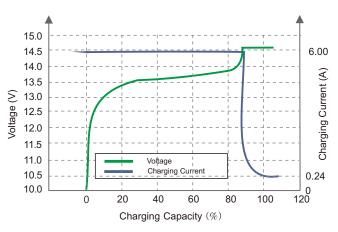
Different Temperature Discharge Curve(0.5C)



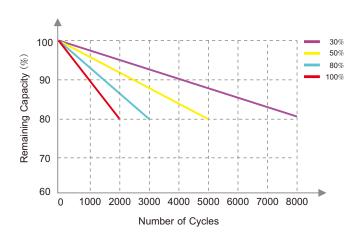
State of Charge Curve(0.5C, 25℃)



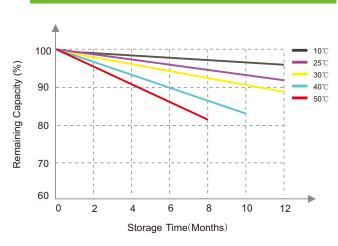
Charging Characteristics(0.5C, 25°C)



Different DOD Discharge Cycle Life Curve(1C)



Different Temperature Self Discharge Curve



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