

Lithium Iron Phosphate (LiFePO4) Battery LFeLi-1230M (12.8V30Ah)

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.

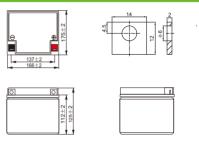
Lighter Weight: About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.

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	30Ah
	Energy	384Wh
Electrical	Internal Resistance(AC)	$\leq 40 \mathrm{m} \Omega$
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	15A
	Max. Charge Current	30A
	Charge Cut-off Voltage	15.6V±0.2V
Standard Discharge	Continuous Current	60A
	Max. Pulse Current	80A(<3s)
	Discharge Cut-off Voltage	8V
Environmental	Charge Temperature	0 ℃ to 55 ℃ (32F to 131F) @60±25% Relative Humidity
	Discharge Temperature	-20 ℃ to 60 ℃ (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	–20 $^\circ\!\mathrm{C}$ to 45 $^\circ\!\mathrm{C}$ (-4F to 113F) @60 $\pm25\%$ Relative Humidity
	IP Class	IP65
Mechanical	Plastic Case	ABS
	Approx. Dimensions	166mm*175mm*125mm (6.53in.*6.89in.*4.92in.)
	Approx. Weight	4.30kg (9.48lbs)
	Terminal	Т3



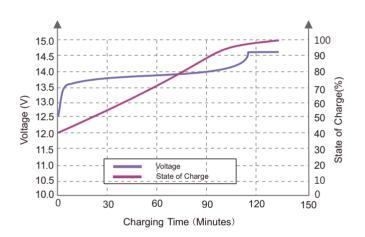
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Different Temperature Discharge Curve(0.5C)

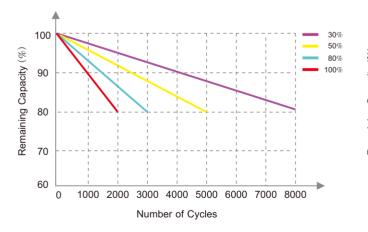
14.0 0.1C 0.2C 0.5C 1C 2C 13.2 Voltage (V) 12.4 11.6 10.8 10.0 0.5C 0.10 2C 1C 0.2C 9.2 10h 20min 40min 60min 2h 5h 0 **Discharge** Time

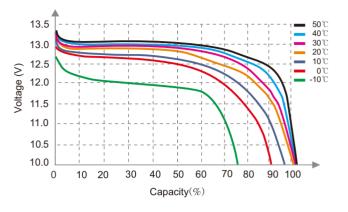
Different Rate Discharge Curve(25°C)

State of Charge Curve(0.5C, 25°C)

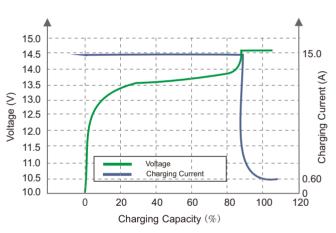


Different DOD Discharge Cycle Life Curve(1C)

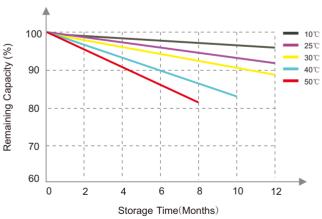




Charging Characteristics(0.5C, 25℃)



Different Temperature Self Discharge Curve



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