

Lithium Iron Phosphate (LiFePO4) Battery LFeLi-1275M (12.8V75Ah)

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.

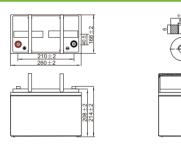
Lighter Weight: About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.

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

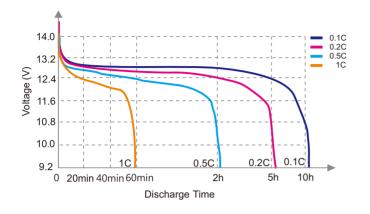
Specification

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	75Ah
	Energy	960Wh
	Internal Resistance(AC)	≤20mΩ
	Cycle Life	>3000 cycles @0.5C 80%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	38A
	Max. Charge Current	75A
	Charge Cut-off Voltage	14.6V±0.2V
Standard Discharge	Rated Discharge Current	38A
	Max. Discharge Current	75A
	Discharge Cut-off Voltage	10V
Environmental	Charge Temperature	0 $^\circ \!\!\! \mathbb{C}$ to 55 $^\circ \!\!\! \mathbb{C}$ (32F to 131F) $@60{\pm}25\%$ Relative Humidity
	Discharge Temperature	–20 $^\circ \!\! C$ to 60 $^\circ \!\! C$ (–4F to 140F) $@60{\pm}25\%$ 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	260mm*168mm*214mm (10.24in.*6.61in.*8.43in.)
	Approx. Weight	9.50kg (20.94lbs)
	Terminal	M6



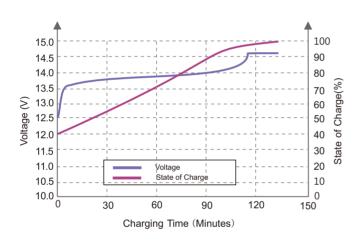


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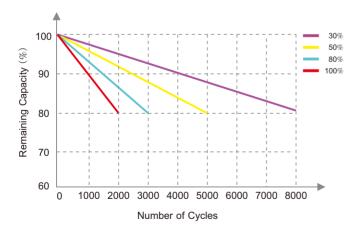


Different Rate Discharge Curve(25°C)

State of Charge Curve(0.5C, 25°C)

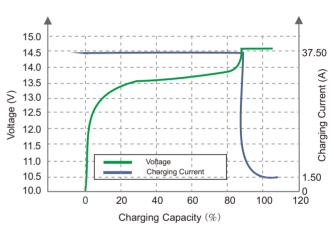


Different DOD Discharge Cycle Life Curve(0.5C)

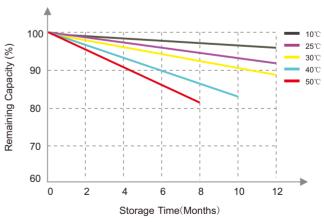


Different Temperature Discharge Curve(0.5C) 13.5 50°C 50 ℃ 40 ℃ 30 ℃ 20 ℃ 10 ℃ -10 ℃ 13.0 12.5 /oltage (V) 12.0 11.5 11.0 10.5 10.0 0 10 20 30 40 50 60 70 80 90 100 Capacity(%)

Charging Characteristics(0.5C, 25℃)



Different Temperature Self Discharge Curve



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