

Lithium Iron Phosphate (LiFePO4) Battery LFeLi-24120M (25.6V120Ah)

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.

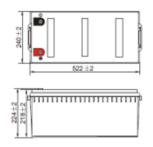
Higher Power: Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.

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	25.6V
	Nominal Capacity	120Ah
	Energy	3072Wh
Electrical	Internal Resistance(AC)	≤20mΩ
Characteristics	Cycle Life	>3650 cycles @0.5C 80%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.5C
	Efficiency of Discharge	96~99% @0.5C
BMS Charge Model	Charge Voltage	27.2±0.5V
	Charge Mode	0.2C to 26V, then 27.2V, charge current to 0.02C (CC/CV)
	Charge Current	60A
	Max. Charge Current	100A
	Charge Cut-off Voltage	27.2V±0.2V
BMS Discharge Model	Rated Discharge Current	60A
	Max. Discharge Current	100A
	Discharge Cut-off Voltage	20V
Environmental	Charge Temperature	0 $^{\circ}$ C to 55 $^{\circ}$ 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) $^\circ$ @60 \pm 25% Relative Humidity
	IP Class	IP65
Mechanical	Plastic Case	ABS
	Approx. Dimensions	522mm*240mm*224mm (20.55in.*9.45in.*8.81in.)
	Approx. Weight	26.5kg (58.42lbs)
	Terminal	M8

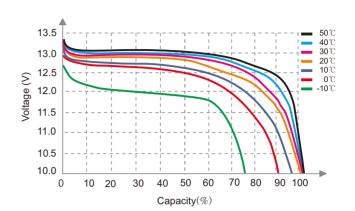


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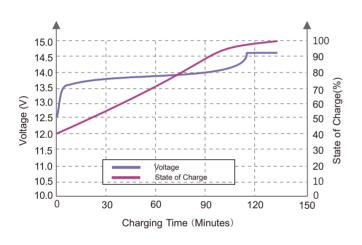
Different Rate Discharge Curve(25℃)

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

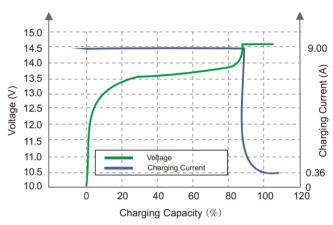
Different Temperature Discharge Curve(0.5C)



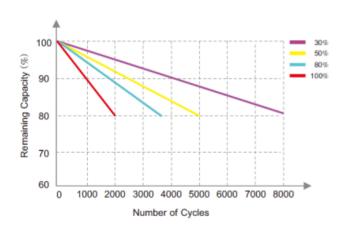
State of Charge Curve(0.5C, 25°C)



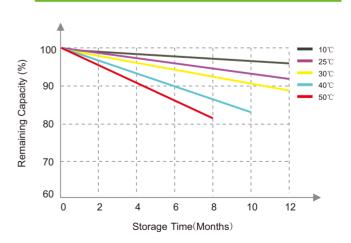
Charging Characteristics(0.5C, 25℃)



Different DOD Discharge Cycle Life Curve(0.5C



Different Temperature Self Discharge Curve



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