

Lith<u>ium Iron Phosphate (LiFePO4) Battery</u> LFeLi-12120L (12.8V 120Ah)

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.

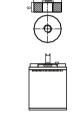
Higher Power: Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.

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







Application

- Solar/wind energy storage system
- Medical equipment
- Ball charter
- Lighting

Specification

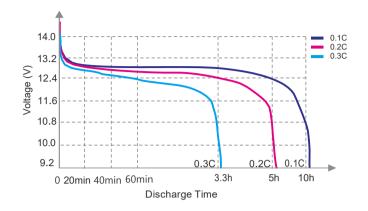
	Nominal Voltage	12.8V
	Nominal Capacity	120Ah
	Energy	1536Wh
Electrical	Internal Resistance(AC)	≤20mΩ
Characteristics	Cycle Life	>3000 cycles @0.5C 80%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.5C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	14.6±0.2V
	Charge Mode	0.2C to 14.6V, then 14.6V, charge current to 0. 02C (CC/CV)
	Charge Current	50A
	Max. Charge Current	100A
	Charge Cut-off Voltage	14.6V±0.2V
Standard Discharge	Rated Discharge Current	50A
	Max. Discharge Current	100A
	Discharge Cut-off Voltage	10V
Environmental	Charge Temperature	0 $^\circ \rm C$ to 55 $^\circ \rm C$ (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 $^\circ C$ to 45 $^\circ C$ (–4F to 113F) @60 \pm 25% Relative Humidity
	IP Class	IP65
	Plastic Case	ABS
	Dimensions (in./mm.)	330*173*220mm (12.99"*6.81"*8.66")
	Weight (lbs./kg.)	14.0kg (30.86lbs)
Mechanical	Terminal	M8
	Communication	Bluetooth



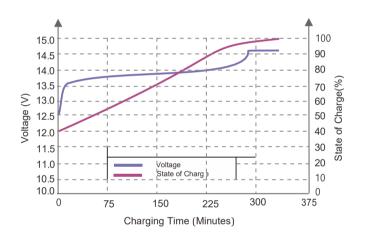


Different Rate Discharge Curve(25°C)

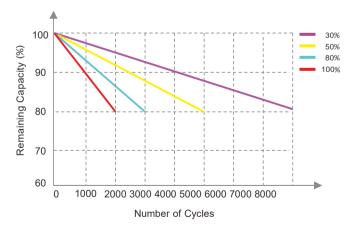
Different Temperature Discharge Curve(0.3C)

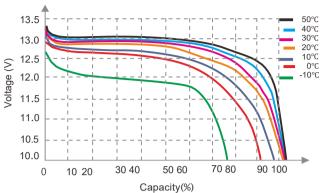


State of Charge Curve(0.2C, 25°C)

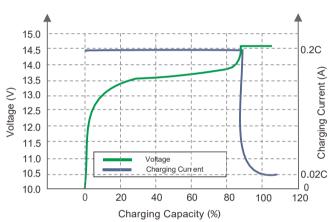


Different DOD Discharge Cycle Life Curve(0.5C)

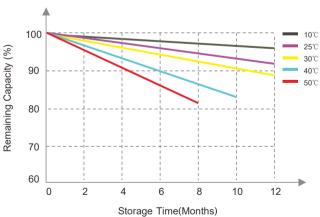




Charging Characteristics(0.2C, 25°C



Different Temperature Self Discharge Curve



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