

LFP 60-25.6 (25.6V 60Ah)

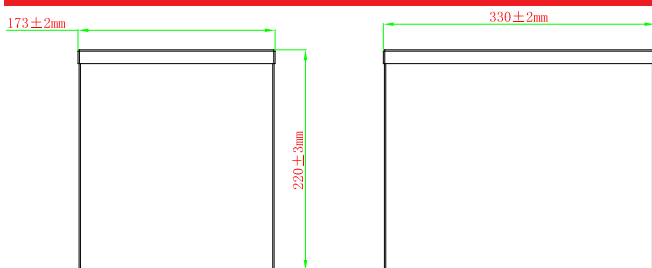
Lithium Iron Phosphate (LiFePO4) Battery



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.
- **Increased Flexibility:** Modular design enables deployment of up to eight batteries in series and up to ten batteries in parallel.

Physical Dimension



Application

- Electric vehicles, electric mobility
- Solar/wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Lighting

Specification

Electrical Characteristics	Nominal Voltage	25.6V
	Nominal Capacity	60Ah
	Energy	1536Wh
	Internal Resistance	≤120mΩ
	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	29.2±0.2V
	Charge Mode	0.2C to 14.6V, then 14.6V, charge current to 0.02C (CC/CV)
	Charger Current	20A
	Max. Charge Current	50A
	Charge Cut-off Voltage	31.2V±0.2V
Standard Discharge	Continuous Current	50A
	Max. Pulse Current	120A(<3s)
	Discharge Cut-off Voltage	20V
Environmental	Charge Temperature	0 °C to 45 °C (32°F to 113°F) @60±25% Relative Humidity
	Discharge Temperature	-20 °C to 60 °C (-4°F to 140°F) @60±25% Relative Humidity
	Storage Temperature	0 °C to 40 °C (32°F to 104°F) @60±25% Relative Humidity
	Water Dust Resistance	IP54
Mechanical	Cell & Method	3.2V3.2A 8S19P
	Plastic Case	ABS
	Dimensions (in./mm.)	330*173*220mm
	Weight (lbs./kg.)	15.0 kg
	Terminal	
	Protocol (optional)	
	SOC (optional)	

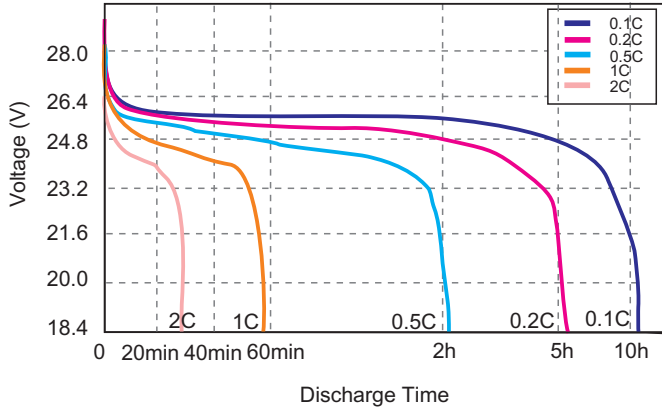


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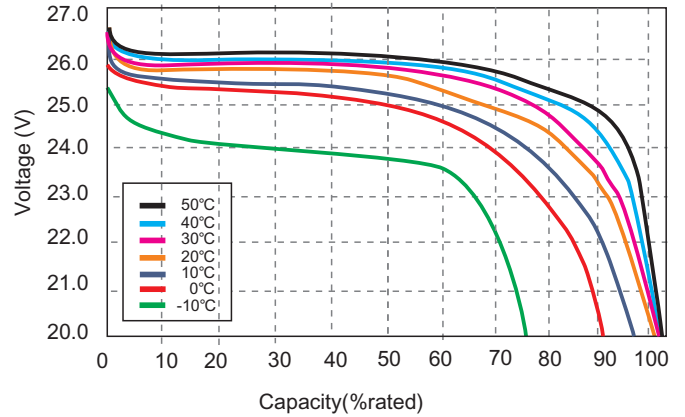
Different Rate Discharge Curve

Different Rate Discharge Curve @25°C



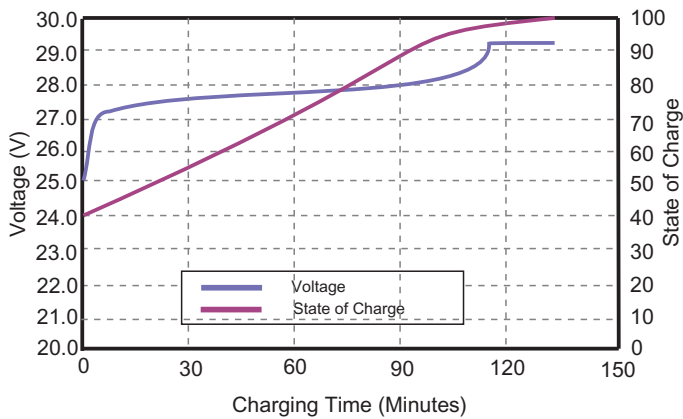
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



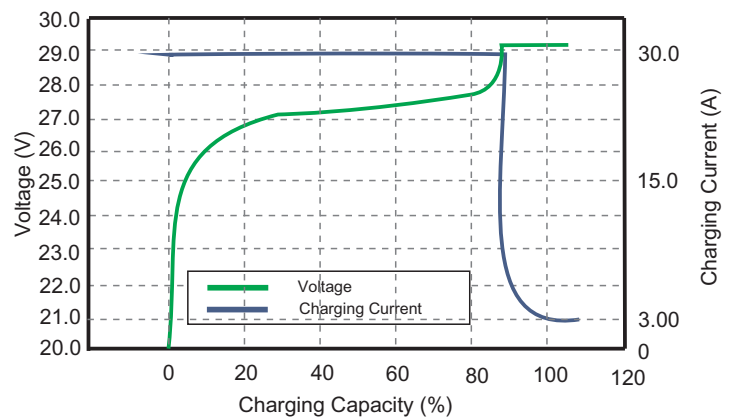
State of Charge Curve

State of Charge Curve @0.5C 25°C



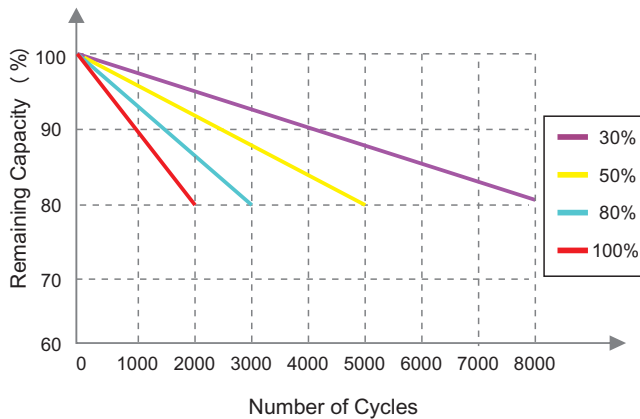
Charging Characteristics

Charging Characteristics @0.5C 25°C



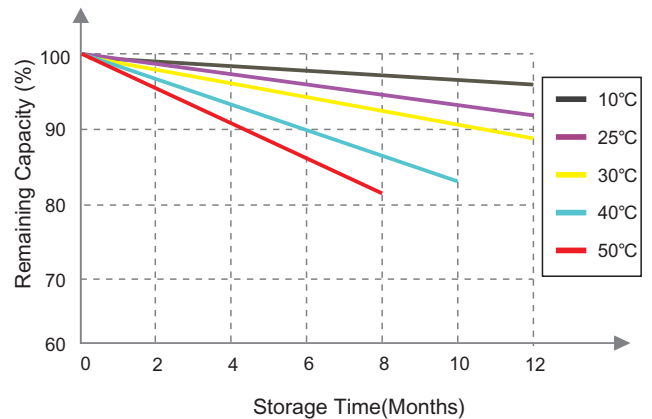
Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve



JYC LFP BATTERIES

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