

Lithium Iron Phosphate (LiFePO4) Battery

Advantages of LiFePO4 battery

- Longer Cycle Life: Offers up to 20times 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 four batteries in series and up to ten battery in parallel.

BMS Specification

- Overcharge detection function Over
- discharge detection function Over
- current detection function
- Temperature protection
- Short detection function
- Balance function

Model: LP-12.8V50Ah



Application

- Electric Vehicles, electric mobility
- Solar/wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Lighting
- And so on

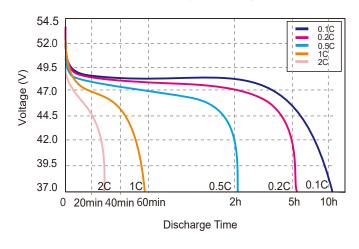
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	Nominal Voltage	12.8V	
	Nominal Capacity	50Ah	
	Energy	640Wh	
Electrical	Terminal	M6	
Characteristics	Cycle Life	>2000cycles @1C	
	Months Self Discharge	<3%	
	Efficiency of Charge	100% @0.2C	
	Efficiency of Discharge	96~99% @0.5C	
Standard Charge	Charge Voltage	14.6-15.2V	
	Charge Mode	0.2C to 13.6V, then 13.6V, charge current to 0.02C(CC/CV)	
	Charge Current	15A	
	Max. Charge Current	50A	
	Charge Cut-off Voltage	14.6V±0.2	
Standard Discharge	Continuous Current	25A	
	Max continuous discharge current	50A	
	Discharge Cut-off Voltage	10V	
	Charge Temperature	0 ℃to 45 ℃(32F to 113F) @60±25%Relative Humidity	
Environmental	Discharge Temperature	-20 °C to 60 °C (-4F to 140F) @60±25% Relative Humidity	
	Storage Temperature	0 ℃to 40 ℃(32F to 104F) @60±25% Relative Humidity	
	Water Dust Resistance	IP21	
	Cell & Method	32650, 4S8P	
	Plastic Case	ABS	
	Dimensions (in./mm.)	229*138*208mm (Customized)	
Mechanical	Weight (lbs./kg.)	Approx: 5.75Kg (12.67bs)	
	Gravimetric specific energy	111WH/KG	
	Bluetooth (optional)	1	
	LCD display (optional)	1	
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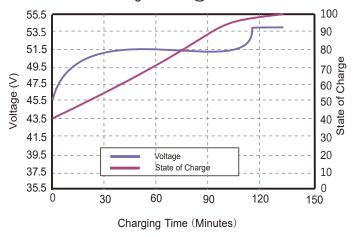
Different Rate Discharge Curve

Different Rate Discharge Curve @25°C

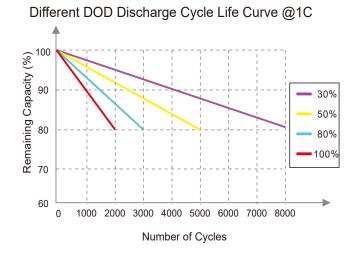


State of Charge Curve

State of Charge Curve @0.5C 25°C

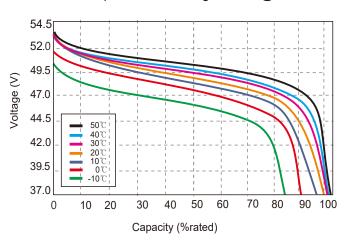


Cycle Life Curve

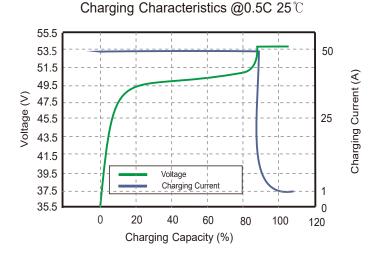


Different Temperature Discharge Curve

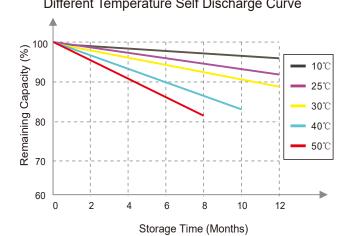
Different Temperature Discharge Curve @0.5C



Charging Characteristics



Self Discharge Characteristics Curve



Different Temperature Self Discharge Curve

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