



Wuhan Vution Lithium Power Technology Co.,Ltd

## Lithium Iron Phosphate (LiFePO4) Battery

**LFP12500 WITH-HE**

**12.8V500AH 6400Wh**

### Features of LiFePO4 Battery

**Longer Cycle Life**

LiFePO4 batteries would be is five times than SLA batteries on cycle life

**High Power & Light weight**

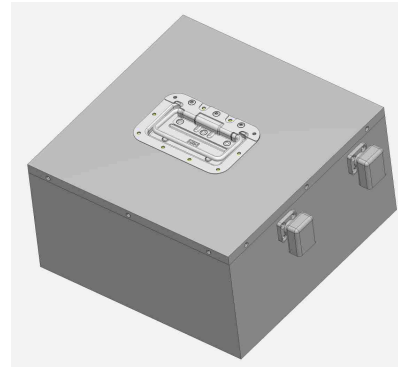
LiFePO4 batteries performance twice power of SLA batteries, while half weight helpful for transport and installation

**Intelligent management control**

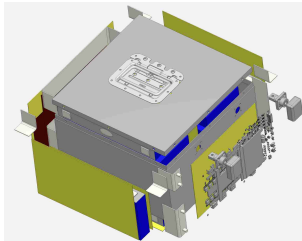
Intelligent BMS system covered by LFP batteries to ensure that batteries work on safety and perfect condition

**Lower Self-discharge rate**

Lower Self-discharge rate to guarantee LFP batteries be stored more longer than SLA batteries



### Physical Dimension



### Applications

- Caravan, RV, camping
- UPS (replacement of SLA batteries)
- Marine, golf cart
- Solar, wind system
- PV, solar light

Electrical Characteristics	Chemistry	LiFePO4
	Nominal Voltage	12.8V
	Nominal Capacity	500Ah (C5,25°C)
	Energy	6400Wh
	Internal Resistance	≤3 mΩ
	Cycle Life	>4000 cycles @1C 80%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.5C
Standard Charge	Efficiency of Discharge	96-99% @1C
	Charge Voltage	14.6±0.2V
	Charge Mode	0.2C to 14.6V, then 14.6V,charge current to 0.02C (CC/CV)
	Charger Current	150A
	Max. Charge Current	300A
Heating Element Specifications	Charge Cut-off Voltage	15.6V±0.2V
	Heating temperature range	-20 °C to 5 °C
	Heating power	6A
Standard Discharge	Heating condition	when charging the battery and the temperature is below 0 °C
	Rated Discharge Current	150A
	Max Discharge Current	300A
	Max. Pulse Current	900A(<3s)
	Discharge Cut-off Voltage	10V
	Charge Temperature	0 °C to 45 °C (32Fto 113F) @60±25% Relative Humidity
	Discharge Temperature	-20 °C to 60 °C (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	0 °C to 40 °C (32Fto 104F) @60±25% Relative Humidity
Mechanical	Water Dust Resistance	IP65
	BMS	4S/4P SMART Bluetooth
	Function	With a turn on/off button
	Case	SPCC
	Dimensions (in./mm.)	355 x 350 x 200 mm
	Weight (lbs./kg.)	≈ 60kg
	Terminal	M8



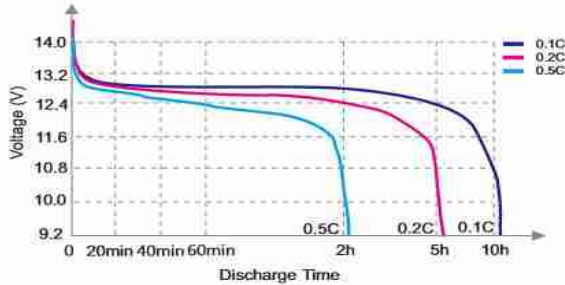
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Lithium Iron Phosphate (LiFePO4) Battery

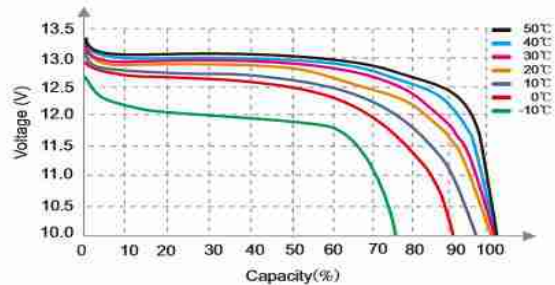
LFP12500 WITH-HE

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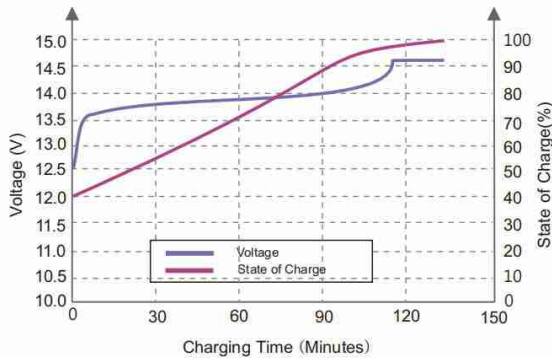
Different Rate Discharge Curve(25°C)



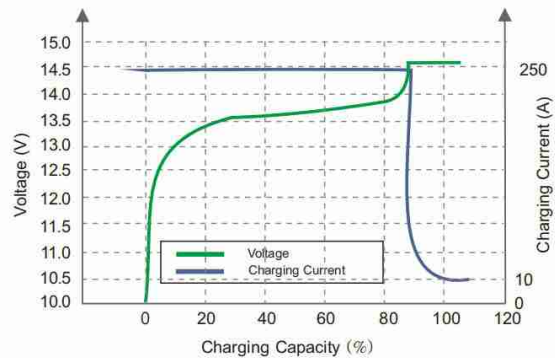
Different Temperature Discharge Curve(0.5C)



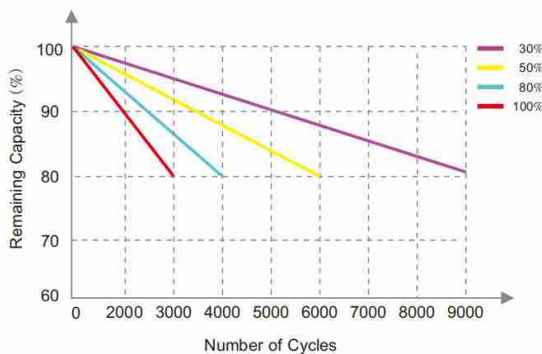
State of Charge Curve(0.5C, 25°C)



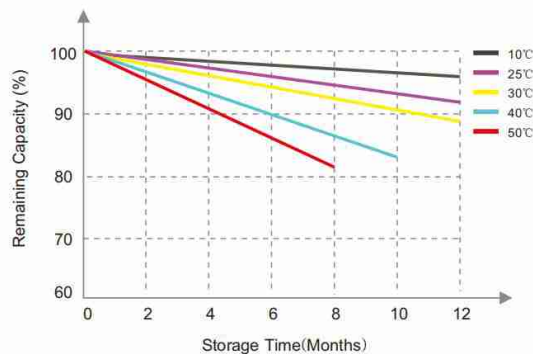
Charging Characteristics(0.5C, 25°C)



Different DOD Discharge Cycle Life Curve(1C)



Different Temperature Self Discharge Curve



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