

# Lithium Iron Phosphate (LiFePO4) Battery

**SR12.8-50**

**12.8V50AH 640Wh**

## 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

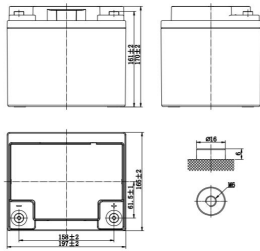
**Intelligent management control**

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
- Boat
- PV ,solar light

### Electrical Characteristics

Chemistry	LiFePO4
Nominal Voltage	12.8V
Nominal Capacity	50Ah (C5,25°C)
Energy	640Wh
Internal Resistance	≤30 mΩ
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	14.6±0.2V
Charge Mode	0.2C to 14.6V, then 14.6V,charge current to 0.02C (CC/CV)
Charger Current	25A
Max. Charge Current	50A
Charge Cut-off Voltage	15.6V±0.2V

### Standard Discharge

Rated Discharge Current	25A
Max Discharge Current	50A
Max. Pulse Current	150A(<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
Water Dust Resistance	IP65

### Mechanical

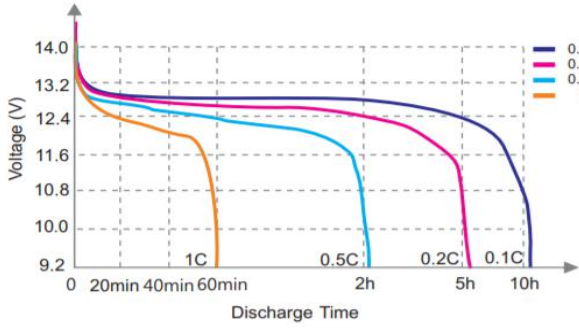
BMS	Bluetooth available
Plastic Case	ABS
Dimensions (in./mm.)	196 x 165 x 170 mm
Weight (lbs./kg.)	6.60kg(14.52lbs)
Terminal	M6

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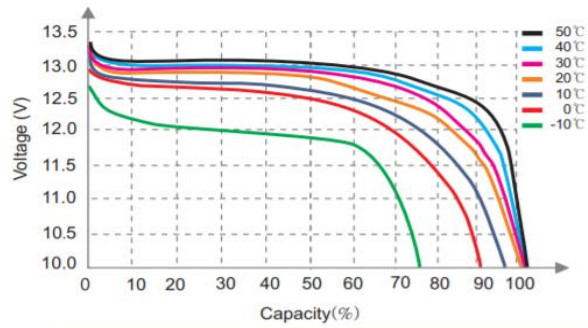
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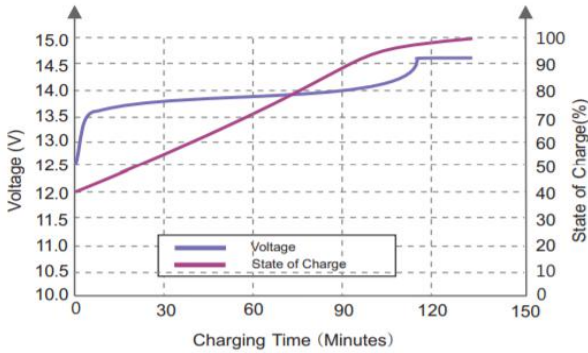
Different Rate Discharge Curve(25°C)



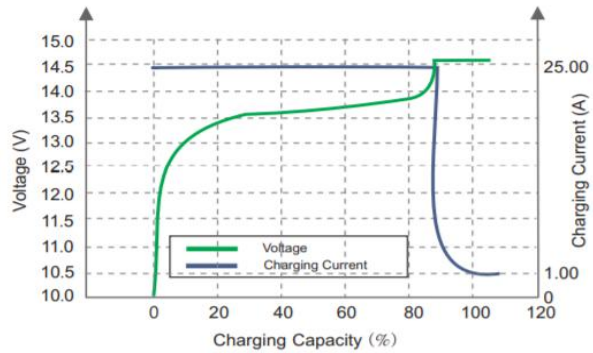
Different Temperature Discharge Curve(0.5C)



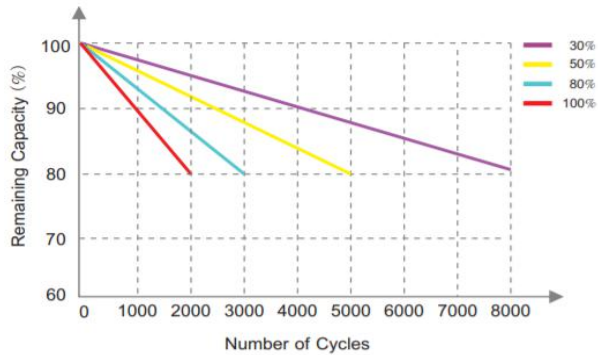
State of Charge Curve(0.5C, 25°C)



Charging Characteristics(0.5C, 25°C)



Different DOD Discharge Cycle Life Curve(1C)



Different Temperature Self Discharge Curve

