

Lithium Iron Phosphate (LiFePO4) Battery

LFP12.8V135AH-SL

12.8V135AH 1728Wh

Features of LiFePO4 Battery

Longer Cycle Life

LiFePO4 batteries have over 5 times the cycle life of SLA batteries.

High Power & Light weight

LiFePO4 batteries have twice the performance of SLA batteries while being half the weight.

Intelligent management control

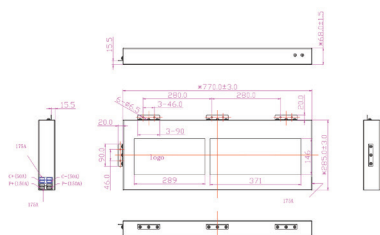
Power Lithium intelligent BMS monitors battery cells to ensure batteries work safely and perform at full potential.

Lower Self-discharge rate

Lower self-discharge rate mean batteries can be stored for longer when compared to SLA.



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	135Ah (C5,25°C)
Energy	1728Wh
Internal Resistance	≤12 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	67.5A
Max. Charge Current	135A
Charge Cut-off Voltage	15.6V±0.2V

Standard Discharge

Rated Discharge Current	67.5A
Max Discharge Current	135A
Max. Pulse Current	405A(<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	4 Series / 4 Parallel
Case	Commercial Quality Cold Rolled Steel (SPCC)
Dimensions (in./mm.)	770 x 285 x 63 mm
Weight (lbs./kg.)	22.5 kg
Terminal	Standard Connectors

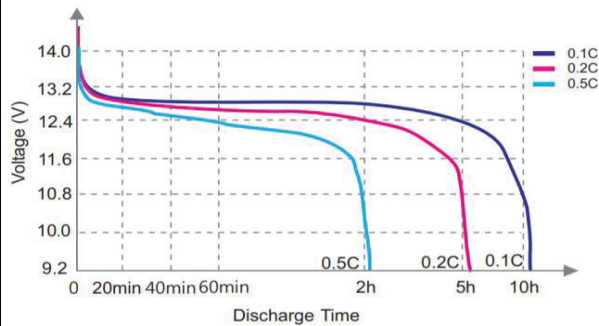
POWER LITHIUM BATTERIES

Lithium Iron Phosphate (LiFePO4) Battery

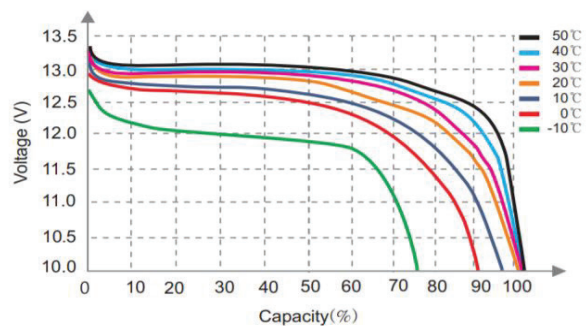
LFP12.8V135AH-SL

12.8V135AH 1728Wh

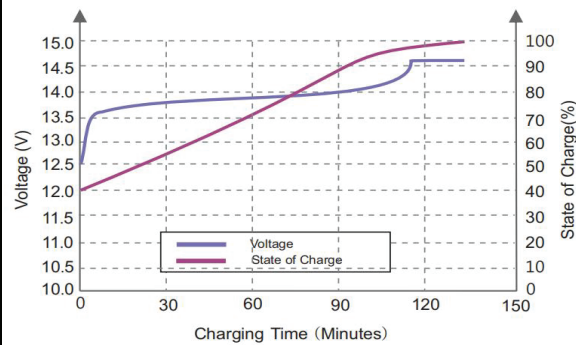
Different Rate Discharge Curve(25°C)



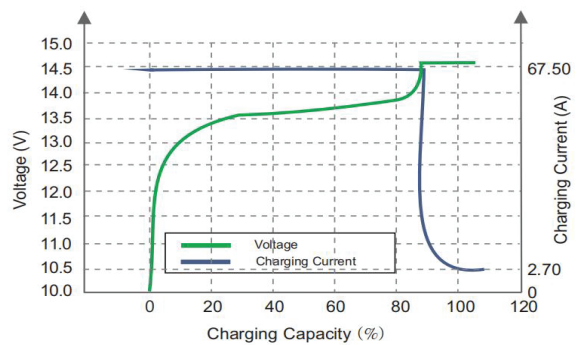
Different Temperature Discharge Curve(0.5C)



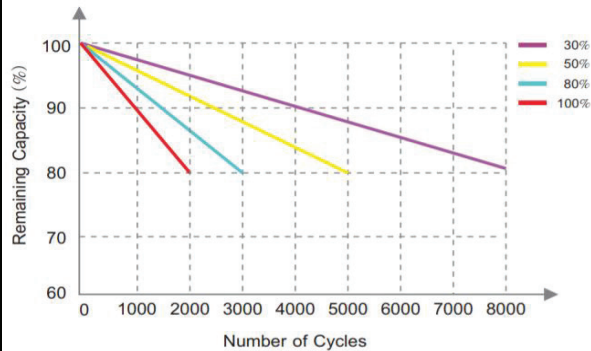
State of Charge Curve(0.5C, 25°C)



Charging Characteristics(0.5C, 25°C)



Different DOD Discharge Cycle Life Curve(0.5C)



Different Temperature Self Discharge Curve

