

LifePO4 LITHIUM ION

Lithium Iron Phosphate (LiFePO4) Battery

LFP12.8V135AH-FT

12.8V135AH FT

1728Wh

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

Chemistry
Nominal Voltage

Terminal

Applications

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

LiFePO4

12.8V

Electrical Characteristics

Standard Charge

Standard Discharge

3	
Nominal Capacity	135Ah (C5,25°C)
Energy	1536Wh
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
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
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
BMS	4S/4P
Plastic Case	ABS
Dimensions (in./mm.)	395*110*286 mm
Weight (lbs./kg.)	14.5kg(31.90lbs)





Mechanical





M8



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POWER LITHIUM BATTERIES

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Different Rate Discharge Curve(25°C) 13.5 14.0 13.0 13.2 12.5 Voltage (V) Voltage (V) 12.4 12.0 11.6 11.5 10.8 11.0 10.0 10.5 0.1C 10.0 0 20min 40min 60min 10h 70 5h 10 Capacity(%) Charging Characteristics(0.5C, 25℃) State of Charge Curve(0.5C, 25°C) 15.0 15.0 14.5 14.5 67.50 14.0 80 14.0 Charging Current (A) State of Charge(%) 13.5 13.5 70 Voltage (V) 13.0 60 Voltage (V) 13.0 12.5 50 12.5 12.0 40 12.0 30 11.5 11.5 20 11.0 11.0 10 10.5 2.70 60 90 120 40 60 Charging Time (Minutes) Charging Capacity (%) Different DOD Discharge Cycle Life Curve(0.5C) Different Temperature Self Discharge Curve 30% 50% 80% 100 100 Remaining Capacity (%) Remaining Capacity (%) 90 90 400 80 70 60 1000 2000 3000 4000 5000 6000 7000 8000 2 8 10 12 6 Number of Cycles







Storage Time(Months)

