

Lifepo4 Lithium ion

Lithium Iron Phosphate (LiFePO4) Battery

LFP12.8-135 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

Trestant

Dimensions (in./mm.)

Weight (lbs./kg.)

Terminal

Applications

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

Electrical Characteristics

Standard Charge

Standard Discharge

Mechanical

	-	
	Chemistry	LiFePO4
	Nominal Voltage	12.8V
	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
- 1	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	IP56
	BMS	Not support bluetooth,communication
	Plastic Case	ABS

395*110*286 mm

14.5kg(31.90lbs)

POWERCELLTECHNOLOGY

M8



LifePO4 LITHIUM ION

POWER LITHIUM BATTERIES

Lithium Iron Phosphate (LiFePO4) Battery

LFP12.8-135 FT

Number of Cycles

12.8V135AH FT 1728Wh

Storage Time(Months)

Different Temperature Discharge Curve(0.5C) Different Rate Discharge Curve(25℃) 0.1C 0.2C 0.5C 13.0 12.5 Voltage (V) Voltage (V) 12.4 12.0 11.6 10.8 11.0 10.0 0.10 20min 40min 60min 10h 70 80 90 100 Discharge Time Capacity(%) Charging Characteristics(0.5C, 25[°]C) State of Charge Curve(0.5C, 25℃) 15.0 15.0 14.0 14.0 Charging Current (A) State of Charge(%) 13.5 13.5 13.0 Voltage (V) 13.0 12.5 12.5 40 12.0 12.0 11.5 20 11.0 11.0 10.5 10 10.5 10.0 10.0 60 120 150 40 60 100 Charging Time (Minutes) Charging Capacity (%) Different DOD Discharge Cycle Life Curve(0.5C) **Different Temperature Self Discharge Curve** 100 100 Remaining Capacity (%) Remaining Capacity (%) 30°C 40°C 90 80 80 70 70 60 60 1000 2000 3000 4000 5000 6000 7000 8000 2 10