

12V 100Ah LiFePO4 Battery with Built-In BMS

This rechargeable 12V 100Ah LiFePO4 battery features a built-in Battery Management System (BMS). It offers over 2000 cycles, ensuring long-term reliability for various applications.



ADDITIONAL IMAGES



Product Overview

High-Performance 12V 100Ah LiFePO4 Solution

This rechargeable lithium iron phosphate battery offers a robust 100Ah capacity with a built-in 100A Battery Management System (BMS) for enhanced safety. Designed for longevity, it provides over 2000 cycles at 0.2C discharge rates, making it a reliable alternative to traditional lead-acid and AGM batteries. Its versatile design is ideal for solar storage, marine use, RVs, and electric vehicle applications.

Key Performance Metrics

Key Metrics

12.8 V

Nominal Voltage

100 Ah

Rated Capacity

2000 Cycles

Cycle Life

Technical Specifications

Capacity Details

- Nominal: 106.25Ah
- Minimum: 102Ah

Nominal Voltage	12.8 V
Max Charge Current	200 A
Charging Voltage	13.8 V
Discharge End Voltage	8.8 V

Physical Characteristics

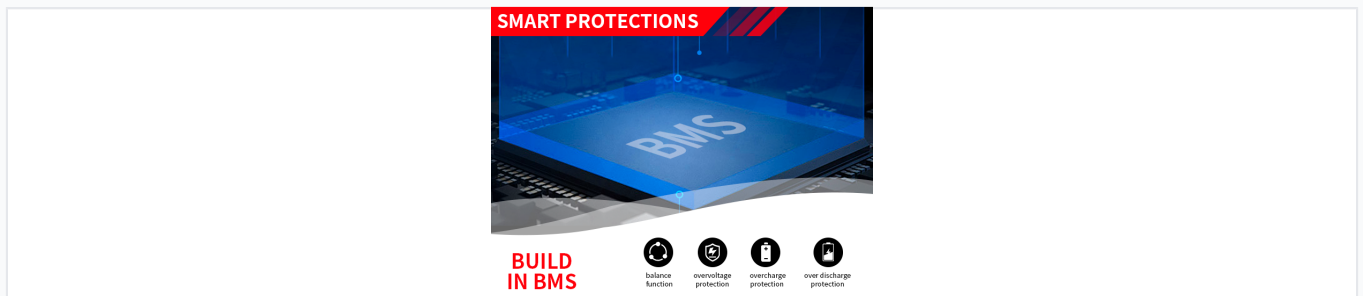
Dimensions (L*W*H)	328 x 172 x 215 mm
Weight	13.5 kg
Cell Configuration	32700 Cells

Operating Environment

Operating Temperature

- Charging: 10°C to 45°C
- Discharging: -20°C to 60°C

Integrated Protection

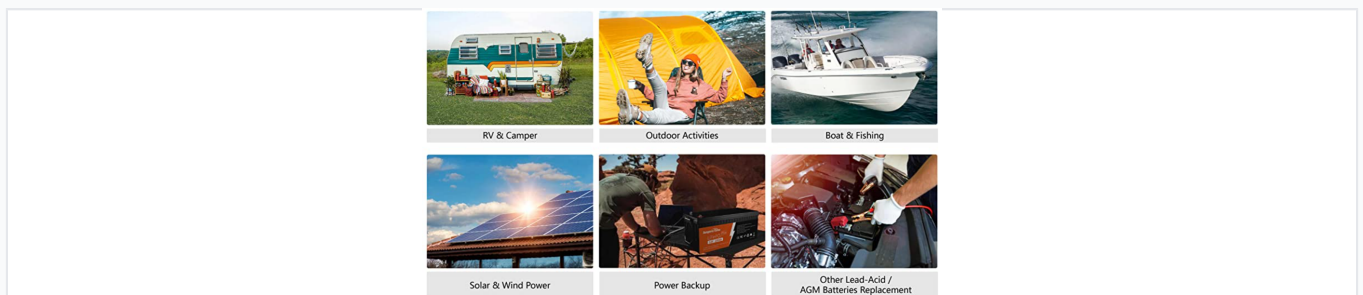


The integrated BMS provides smart protections including balancing, overvoltage, overcharge, and over-discharge safety functions.

BMS Protection Functions

Built-in 100A BMS, Cell Balancing, Overvoltage Protection, Overcharge Protection, Over-discharge Protection

Applications



Versatile energy storage solution suitable for RVs, marine, solar power systems, and as a lead-acid battery replacement.

Recommended Applications

RV & Camper • Solar & Wind Power • Boat & Fishing • Outdoor Activities • Power Backup • Lead-Acid/AGM Replacement • Electric Vehicles

Electrical Performance

Standard Performance Tests

Test Item	Condition	Requirement
Discharge Performance	0.2 CsA down to 8.8V at 25°C	Capacity > Minimum
Charge Retention	28 days storage at 25°C	Discharge time > 4.25h
Cycle Life	0.2CsA to 8.8V until 80% NC	> 2000 Cycles
Energy Storage	12 months storage at 25°C	Discharge time > 4h

Shipping & Logistics

Estimated Lead Times

Quantity (Units)	Est. Time (Days)
1	20
2-10	30
> 300	40