

# 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

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**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

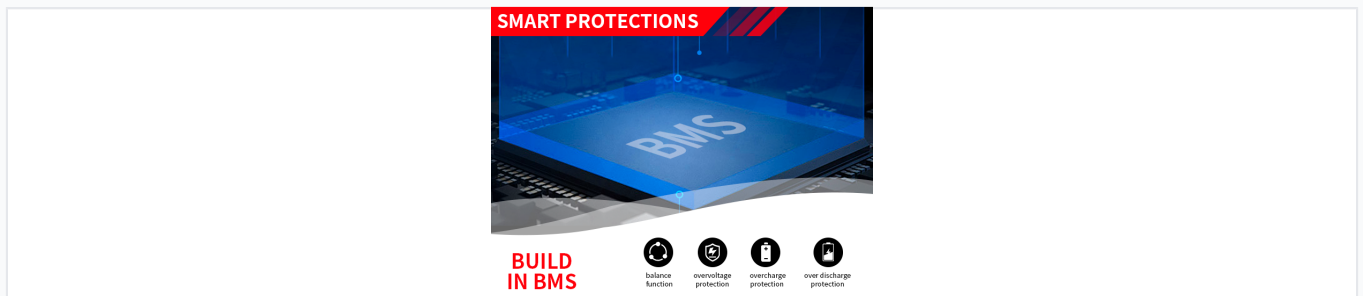
Dimensions (L*W*H)	328 x 172 x 215 mm
Weight	13.5 kg
Cell Configuration	32700 Cells

## Operating Environment

### Operating Temperature

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

## Integrated Protection

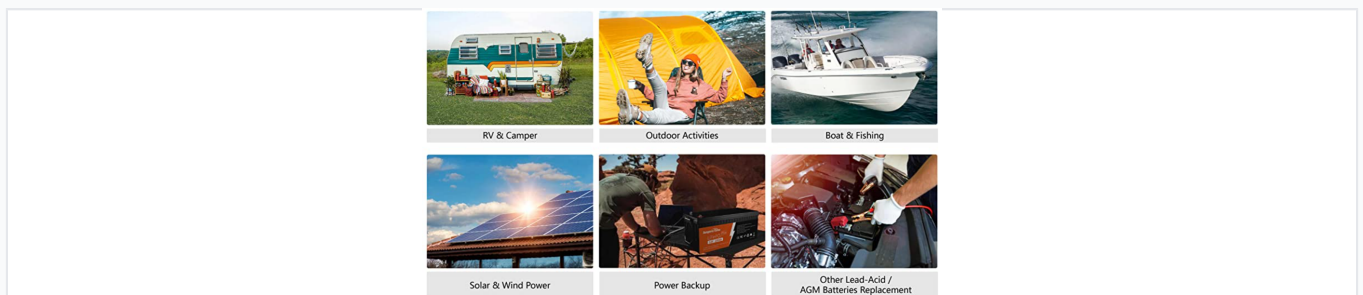


The integrated BMS provides smart protections including balancing, overvoltage, overcharge, and over-discharge safety functions.

### 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