

# 12V 250Ah LiFePO4 Deep Cycle Battery

This 12V 250Ah lithium iron phosphate battery is designed for deep cycle applications. It provides a longer cycle life and wider temperature range compared to lead acid batteries.



## ADDITIONAL IMAGES



## Overview

### High-Capacity LiFePO4 Energy Storage

This 12V 250Ah Lithium Iron Phosphate (LiFePO4) battery is designed for high-performance deep cycle applications, offering a reliable alternative to traditional lead-acid batteries. It features a significantly longer cycle life—up to 20 times more cycles—and provides twice the power delivery even at high discharge rates. Engineered for safety and efficiency, it is approximately 40% lighter than comparable lead-acid models, making it an ideal 'drop-in' replacement for mobile and stationary power systems.

## Technical Performance



### Core Performance Metrics

**12 V**

Nominal Voltage

**250 Ah**

Rated Capacity

**60 °C**

Max Operating Temp

Operating Temperature Range

-20 to 60

## Key Advantages

### Performance Benefits

- Up to 20x longer cycle life than lead acid
- 5x longer float/calendar life
- Approximately 40% the weight of lead acid equivalents
- Double the power delivery of standard batteries
- High energy capacity maintained during high discharge

## Safety & Compliance

### Superior Lithium Chemistry

The Lithium Iron Phosphate chemistry inherently eliminates risks of explosion or combustion often associated with high impact, overcharging, or short circuit situations. The unit includes built-in protection against overcharge, over-discharge, and over-current to ensure long-term operational reliability.

### Certifications

CE • FC • RoHS

## Applications



### Recommended Uses

Solar Energy Storage, Wind Energy Systems, UPS Back-up Power, Wheelchairs & Scooters, Golf Trolleys, Electric Bikes, Marine Power, Off-grid Solutions

## Physical Construction

### Battery Type

Deep Cycle LiFePO4 (Lithium Iron Phosphate)