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› Paoweric 48V 100Ah LiFePO4 Battery User Manual

## Paoweric 48V100AH

# Paoweric 48V 100Ah LiFePO4 Battery User Manual

Comprehensive instruction manual for the Paoweric 48V 100Ah LiFePO4 Battery with 200A BMS, covering setup, operation, maintenance, and specifications for RV, solar, marine, trolling motor, and off-grid applications.

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your Paoweric 48V 100Ah LiFePO4 Battery. Please read this manual thoroughly before installation and operation to ensure optimal performance and longevity of your battery.



Image: The Paoweric 48V 100Ah LiFePO4 Battery system, including the battery unit, a dedicated charger, an LCD monitor for real-time data, and securing straps.

## 2. SAFETY INFORMATION

Always prioritize safety when handling batteries. LiFePO4 batteries are generally safer than other lithium-ion chemistries, but proper handling is still crucial.

- Do not disassemble or deform the battery.
- Avoid touching uninsulated terminals or connectors to prevent electric shock.
- Ensure proper ventilation during charging and discharging.
- Use only the specified charger provided with the battery.
- Do not connect batteries with other brands in series or parallel.
- The intelligent 200A BMS provides protection against overcharge, over-discharge, over-current, short circuit, and extreme temperatures. However, always operate within specified limits.

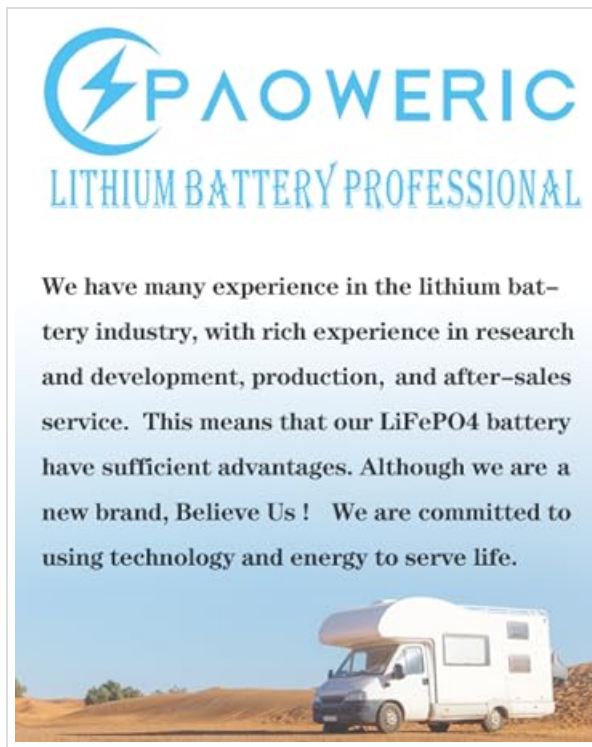


Image: Internal view highlighting Grade A cells and the 200A Battery Management System (BMS) which offers multiple layers of protection for safe operation.

### 3. PRODUCT FEATURES

- **Compact Size & Lightweight:** Measuring 20.6 x 10.6 x 8.8 inches and weighing approximately 85 pounds, this battery offers a high energy density, at least 300% higher than traditional lead-acid batteries, making it easier to handle and install.
- **Advanced BMS Protection:** Equipped with an intelligent 200A Battery Management System (BMS) to safeguard against overcharge, over-discharge, over-current, short circuits, and extreme operating temperatures.
- **Intelligent Monitoring:** The upgraded battery includes an accessory device with an APP and charger, allowing real-time monitoring of the battery's working status for enhanced convenience.
- **Expandable Capacity:** Supports parallel connections for up to 6 batteries, making it suitable for various applications such as golf carts, RVs, emergency lighting, solar systems, marine use, and off-grid setups.
- **Wide Operating Temperature Range:** Capable of charging between 0~55°C (32~131°F) and discharging between -30~55°C (-22~131°F).

### 4. SPECIFICATIONS

Attribute	Detail
Brand	Paoweric
Model	48V100AH
Nominal Voltage	48V
Rated Capacity	100Ah
BMS	200A Intelligent BMS
Dimensions (L x W x H)	20.6 x 10.6 x 8.8 inches

Item Weight	85 pounds
Number of Cells	16
Terminal Type	Marine Terminal
Charging Temperature	0~55°C (32~131°F)
Discharging Temperature	-30~55°C (-22~131°F)



Image: Detailed dimensions of the battery for installation planning. Note: The image indicates a weight of 88 lbs, while specifications state 85 lbs.

## 5. SETUP AND INSTALLATION

Proper installation is key to the performance and safety of your Paoweric LiFePO4 battery. Follow these general guidelines for installation.

## 5.1 Battery Placement and Securing

- Ensure the battery is placed in a secure, well-ventilated area.
- Use the provided tie-down straps to firmly secure the battery in its compartment to prevent movement during operation.



Image: Visual guide for securing the battery within a golf cart, highlighting the use of fixed ties and the integration of the LCD monitor and smartphone app.

## 5.2 Wiring Connections

- Connect the battery terminals using appropriate cables. Ensure all connections are tight and secure.
- For parallel connections, ensure all batteries are of the same brand and model. Do not mix with other battery types.

### Video: Elefast 48V 100AH Golf Cart Battery Installation

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Video Description: This video demonstrates the step-by-step installation process of a lithium battery and charger in a golf cart, including securing the battery, connecting the charger, and wiring the communication ports for monitoring.

## Video: Mehrpow 48V Lithium Battery Installation

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Video Description: A detailed guide on installing a 48V lithium battery, covering securing the battery, connecting power lines, and setting up the LCD display and communication ports.

### 5.3 Charger Connection

- Connect the charger's DC OUT connectors to the battery.
- Connect the charger's AC IN connectors to a suitable power source.



Image: The dedicated 58.4V 15A charger, designed for efficient and fast charging of the Paoweric LiFePO4 battery.

### 5.4 LCD Monitor and APP Setup

- Connect the 4-pin communication port to the LCD display.
- Download the dedicated smartphone APP to monitor battery status in real-time via Bluetooth.

# YOU CAN CONNECT THE BATTERY THROUGH LCD DISPLAY & MOBILE PHONE APP MONITOR THE BATTERY IN REAL TIME.



Image: The LCD display and smartphone application provide comprehensive real-time monitoring of battery parameters, including voltage, current, temperature, and individual cell status.

## 6. OPERATING INSTRUCTIONS

### 6.1 Charging the Battery

Always use the provided 58.4V 15A charger. The intelligent monitoring system will display charging progress and estimated time to full charge via the LCD screen and smartphone app.

### 6.2 Discharging the Battery

The battery is designed for deep cycle applications. The BMS will protect against over-discharge. Monitor the battery status via the LCD or app to manage usage effectively.

### 6.3 Parallel Connection

The Paoweric 48V 100Ah battery supports up to 6 parallel connections to increase overall capacity. Ensure all batteries

connected in parallel are identical in brand and model to maintain system integrity and performance.

**Important: Do not connect batteries of different brands or models in series or parallel.**

## 7. MAINTENANCE

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- **Regular Monitoring:** Utilize the smartphone app or LCD display to regularly check battery voltage, current, temperature, and individual cell balance.
- **Temperature Management:** Operate the battery within the specified temperature ranges (charging 0~55°C, discharging -30~55°C). The BMS includes low temperature cut-off protection to prevent damage.
- **Terminal Inspection:** Periodically inspect battery terminals for corrosion or loose connections. Clean and tighten as necessary.
- **Storage:** If storing the battery for extended periods, ensure it is charged to approximately 50% and stored in a cool, dry place. Disconnect from any loads.

## 8. TROUBLESHOOTING

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The intelligent BMS is designed to prevent most common issues. If you experience unexpected behavior, check the following:

- **No Power Output:** Verify all connections are secure. Check the battery's state of charge via the app or LCD. The BMS may have activated a protection mode (e.g., over-discharge, over-current).
- **Charging Issues:** Ensure the charger is correctly connected and receiving AC power. Check the battery temperature; charging will stop if outside the 0~55°C range.
- **Abnormal Readings on LCD/App:** Restart the monitoring app or cycle power to the LCD display. If issues persist, contact customer support.

## 9. WARRANTY AND SUPPORT

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The Paoweric 48V 100Ah LiFePO4 Battery comes with a warranty. Please refer to your purchase documentation for specific warranty terms and duration. For technical support, troubleshooting assistance, or warranty claims, please contact Paoweric customer service.

Contact information may be found on the product packaging or the official Paoweric website.

## 10. ADDITIONAL RESOURCES

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### Video: Paoweric LiFePO4 Battery Overview

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Video Description: A brief overview of the Paoweric LiFePO4 battery, showcasing its features and various applications.

### Video: Golf Cart LiFePO4 Battery Features

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Video Description: This video highlights various features of a LiFePO4 battery designed for golf carts, including its compact size and power output.

### Video: Lithium LiFePO4 Battery Overview

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Video Description: A general overview of Lithium LiFePO4 battery technology and its benefits.

