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› [GOKWH 48V 100AH Lithium LiFePO4 Battery User Manual \(Model: 51.2V 100Ah 5.12KWh\)](#)

**GOKWH 51.2V 100Ah 5.12KWh**

# GOKWH 48V 100AH Lithium LiFePO4 Battery User Manual

Model: 51.2V 100Ah 5.12KWh

Brand: GOKWH

## 1. INTRODUCTION

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This manual provides essential instructions for the safe and efficient operation, installation, and maintenance of your GOKWH 48V 100AH Lithium LiFePO4 Battery. Please read this manual thoroughly before using the product and retain it for future reference. This battery is designed for various applications, including home energy storage, RV power systems, and solar setups.

## 2. SAFETY INFORMATION

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Always observe the following safety precautions to prevent injury or damage to the battery and connected equipment:

- Do not disassemble, modify, or puncture the battery.
- Keep the battery away from fire, heat sources, and direct sunlight.
- Ensure proper ventilation during operation and charging.
- Use only compatible chargers and inverters.
- Wear appropriate personal protective equipment (PPE) when handling the battery.
- Avoid short-circuiting the battery terminals.
- The battery is heavy; use proper lifting techniques or assistance during installation.

## 3. WHAT'S IN THE BOX

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Upon unpacking, verify that all components listed below are present:

- 1 x GOKWH 48V 100AH LiFePO4 Battery
- 2 x Battery Cables
- 1 x Communication Cable
- 1 x User Manual (this document)

# What's in the Package

1PCS \* GoKWh 51.2V 100Ah LiFePO4 Battery

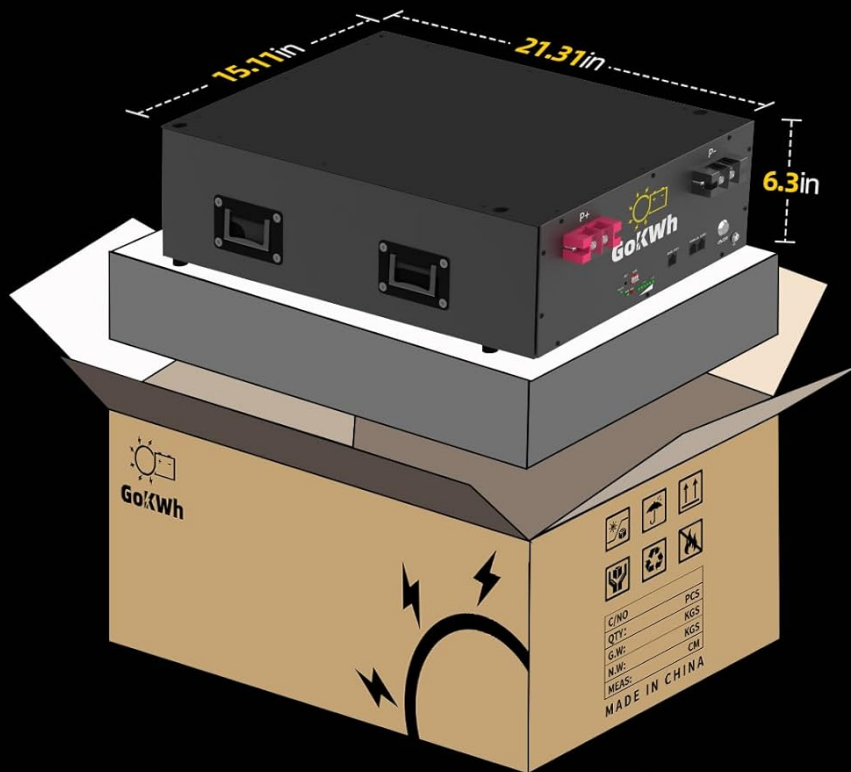


Image: The package contents include the GOKWH 51.2V 100Ah LiFePO4 battery, two battery cables, and one communication cable.

## 4. PRODUCT OVERVIEW

The GOKWH 48V 100AH LiFePO4 Battery features a robust design with advanced functionalities for reliable power storage.

### 4.1 Key Features

- **High-Grade LiFePO4 Cells:** Ensures enhanced safety, longer lifespan, and stable performance.
- **Built-in 100A Smart BMS:** Provides comprehensive protection against overcharging, over-discharging, overcurrent, short circuits, temperature fluctuations, and cell imbalance.
- **Smart Display & Mobile APP:** Allows real-time monitoring of battery status, including remaining capacity, voltage, current, output power, and temperature via Bluetooth.
- **Scalability:** Supports connecting up to 16 units in series for higher voltage systems (up to 768V) or parallel for increased capacity.
- **Durable Construction:** Housed in a tough metal case for improved cooling and longevity.



Image: A detailed view of the GOKWH 48V 100AH LiFePO4 Battery, showing its front panel with terminals and controls.



Image: An illustration depicting the internal structure of the battery, highlighting the high-grade LiFePO4 cells for enhanced safety and performance.



# Professional Battery Management System (BMS)

Smart protection for every charge cycle - keeps your battery safe, efficient, and long-lasting.



Overcharge Protection



Overcurrent Protection



Over-discharge Protection



Short Circuit Protection



Temperature Control



Cell Balancing

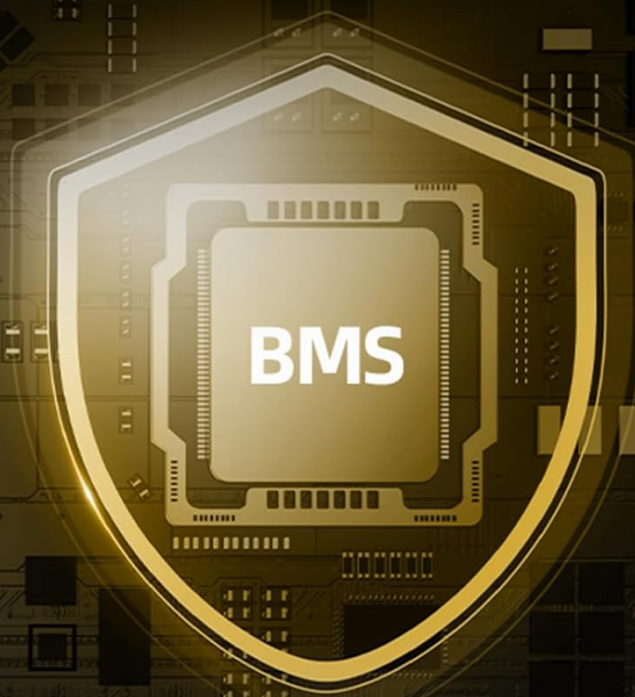


Image: A graphic explaining the protective features of the Professional Battery Management System (BMS), including overcharge, overcurrent, over-discharge, short circuit, temperature control, and cell balancing.

## 4.2 Product Details Display

### Product Details Display

#### P+/P-M8 Terminal

Quick lock and easy for parallel battery

#### ADS Switch&Digital Output Port

To set up address and communication

#### Capacity Light

LED lights to show the capacity status of battery pack



#### Communication Port

CAN and RS485 communication suitable for wide inverter

#### ON/OFF Switch& Grounding port

Provide multiple protection

Image: A diagram labeling the various ports and indicators on the battery's front panel, including P+/P-MB terminals, communication ports (CAN and RS485), ADS Switch & Digital Output Port, Capacity Light LEDs, and ON/OFF Switch & Grounding port.

## 5. SETUP AND INSTALLATION

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### 5.1 Physical Installation

- The battery weighs 111 pounds (50.3 kg). Ensure you have adequate assistance or equipment for safe handling and placement.
- Install the battery in a cool, dry, and well-ventilated area, away from direct sunlight, heat sources, and flammable materials.
- The battery features pre-drilled mounting holes for easy installation into standard 19-inch server racks.
- The design allows for stacking multiple batteries, with holes on the top matching rubber legs for interlocking stability.

### 5.2 Connecting Multiple Units (Series/Parallel)

The GOKWH battery supports connecting up to 16 units in series or parallel to meet various power requirements. Refer to the specific wiring diagrams for your desired configuration (series for higher voltage, parallel for higher capacity).

# Max. **16** Units in Parallel, Max. Energy up to **81920Wh**

Your home energy center, no longer afraid of power outages



Refrigerator (150W)  
**22.7 Days**



Home CPAP machine (60W)  
**56.8 Days**



LED TV (100W)  
**34 Days**



Energy-saving LED light  
bulb (10W)  
**341 Days**



Image: An illustration demonstrating how up to 16 GOKWH batteries can be connected in parallel to achieve a maximum energy capacity of 81920Wh, suitable for home energy centers.

## 5.3 Electrical Connections

- Connect the provided battery cables to the P+ (positive) and P- (negative) terminals. Ensure connections are secure and correct polarity is maintained.
- Connect the battery to your inverter or charge controller using appropriate cables and following the manufacturer's guidelines for your specific system.
- Utilize the communication cable for connecting to compatible inverters or monitoring systems via CAN and RS485 ports.

## 5.4 Initial Power-Up and App Connection

- After all physical and electrical connections are made, switch the battery ON using the ON/OFF switch.
- Download the dedicated GOKWH mobile application from your device's app store.
- Enable Bluetooth on your mobile device and pair it with the battery to access real-time monitoring data.
- If connecting multiple units, set the unique ID for each battery using the DIP switches (little white tabs) on the

front panel as per the system's requirements.

## 6. OPERATING THE BATTERY

### 6.1 Monitoring Battery Status

- **Smart Display:** The built-in display provides immediate visual feedback on key battery parameters.
- **Mobile App:** Use the GOKWH mobile app for detailed, real-time monitoring of remaining capacity, voltage, current, output power, and temperature.
- **Capacity Lights:** LED lights on the front panel indicate the battery's state of charge (SOC).

### 6.2 System Integration

The battery's CAN and RS485 communication ports allow direct connection to most mainstream inverter brands and solar charge controllers. This enables automatic control and optimization of charging and discharging based on your system settings.



Image: A comprehensive diagram showing how the GOKWH LiFePO4 battery integrates into an off-grid system, connecting solar panels, generators, an inverter, and powering household appliances like TVs, refrigerators, coffee machines, and ovens.



## 7. MAINTENANCE

- **Regular Inspection:** Periodically check the battery terminals and cables for any signs of corrosion, damage, or loose connections.
- **Cleaning:** Keep the battery clean and free from dust and debris. Use a dry, soft cloth for cleaning. Do not use solvents or abrasive cleaners.
- **Storage:** If storing the battery for an extended period, ensure it is charged to approximately 50-70% capacity and stored in a cool, dry place. Recharge every 3-6 months to prevent deep discharge.
- **Temperature:** Operate the battery within its specified temperature range to maximize lifespan and performance.

## 8. TROUBLESHOOTING

If you encounter issues with your GOKWH battery, refer to the following common troubleshooting steps:

- **Battery Not Powering On:** Check if the ON/OFF switch is in the 'ON' position. Verify all cable connections are secure. Ensure the battery has sufficient charge.
- **No Output Power:** Check for any error codes on the display or app. Verify that the inverter or connected device is functioning correctly. The BMS may have activated a protection mode (e.g., over-discharge).
- **App Connection Issues:** Ensure Bluetooth is enabled on your device and the battery is within range. Restart the app and the battery if necessary.
- **Unusual Noise or Smell:** Immediately disconnect the battery from all loads and charging sources. Contact customer support.

For persistent issues or complex problems, please contact GOKWH professional after-sales support.

## 9. SPECIFICATIONS

Specification	Value
Product Dimensions	21 x 15 x 7.08 inches
Item Weight	111 pounds
Item Model Number	51.2V 100Ah 5.12KWh
Brand	GOKWH
Manufacturer	GOKWH
Material	Sheet Metal
Input Voltage	48 Volts (DC)
Battery Type	LiFePO4
BMS	Built-in 100A Smart BMS
Communication	Bluetooth, CAN, RS485
Max. Units in Parallel	16

## 10. WARRANTY AND SUPPORT








Each GOKWH battery comes with a **7-year warranty**, demonstrating our commitment to quality and durability. This warranty covers manufacturing defects and ensures long-term reliability.

Our dedicated professional after-sales support team is available to assist you with any questions regarding setup, usage, or technical concerns. Please do not hesitate to contact us for assistance.

For support, please refer to the contact information provided with your purchase or visit the official GOKWH website.

Related Documents - 51.2V 100Ah 5.12KWh

 <p><b>GoKWh</b> <b>USER MANUAL</b> GoKWh 51.2V Series LiFePO4 Wheel-mounted Battery Storage User Manual</p>	<p><a href="#">GoKWh 51.2V Series LiFePO4 Wheel-mounted Battery Storage User Manual</a></p> <p>Comprehensive user manual for the GoKWh 51.2V Series LiFePO4 Wheel-mounted Battery Storage system, covering safety instructions, specifications, BMS parameters, interface descriptions, app usage, and warranty information.</p>
 <p><b>GoKWh</b> <b>USER MANUAL</b> Smart Bluetooth 12V &amp; 24V Mini LiFePO4 Battery</p>	<p><a href="#">GoKWh Smart Bluetooth 12V &amp; 24V Mini LiFePO4 Battery User Manual   Safety, Specs, App Guide</a></p> <p>This user manual provides comprehensive information on GoKWh Smart Bluetooth 12V and 24V Mini LiFePO4 batteries. It covers essential safety instructions, product overview, detailed specifications, battery connection and sizing, charging and storage guidelines, Bluetooth app usage for monitoring and control, troubleshooting, and the 5-year warranty. Designed for accessibility and SEO, this guide helps users understand and safely operate their GoKWh batteries.</p>
 <p><b>GoKWh</b> <b>USER MANUAL</b> GoKWh 12V LiFePO4 Battery Series</p>	<p><a href="#">GoKWh 12V LiFePO4 Battery User Manual - Specifications, Safety, and Usage</a></p> <p>Comprehensive user manual for the GoKWh 12V 100Ah LiFePO4 battery series. Includes technical specifications, safety instructions, connection guidelines, usage, storage, and warranty information.</p>
 <p><b>GoKWh</b> <b>USER MANUAL</b> 51.2V LiFePO4 Bluetooth &amp; LCD Stack-mounted Battery Storage Series</p>	<p><a href="#">GoKWh 51.2V LiFePO4 Bluetooth &amp; LCD Stack-mounted Battery Storage Series User Manual</a></p> <p>Comprehensive user manual for the GoKWh 51.2V LiFePO4 Bluetooth &amp; LCD Stack-mounted Battery Storage Series, covering specifications, structure, BMS functions, app control, safety, transportation, storage, warnings, and warranty information.</p>
 <p><b>GoKWh</b> <b>USER MANUAL</b> 51.2V LiFePO4 Bluetooth &amp; LCD Stack-mounted Battery Storage Series</p>	<p><a href="#">GoKWh 51.2V LiFePO4 Battery Storage Series User Manual</a></p> <p>Comprehensive user manual for the GoKWh 51.2V LiFePO4 Bluetooth &amp; LCD Stack-mounted Battery Storage Series, detailing specifications, operation, maintenance, and safety instructions.</p>



GoKWh

## USER MANUAL

51.2V LiFePO4 LCD Stack-mounted  
Battery Storage Series



### [GoKWh 51.2V LiFePO4 LCD Stack-mounted Battery Storage Series User Manual](#)

This user manual provides comprehensive operation, maintenance, and safety instructions for the GoKWh 51.2V LiFePO4 LCD Stack-mounted Battery Storage Series, including technical specifications, BMS details, transportation, storage, warnings, and warranty information.