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› HumsiENK 48V 100Ah LiFePO4 Lithium Battery User Manual (Model: HS48V100AH100WALLBTNEW)

HumsiENK HS48V100AH100WALLBTNEW

HumsiENK 48V 100Ah LiFePO4 Lithium Battery User Manual

Model: HS48V100AH100WALLBTNEW

INTRODUCTION

This manual provides essential information for the safe and efficient operation of your HumsiENK 48V 100Ah LiFePO4 Lithium Battery. Please read this manual thoroughly before installation and use, and retain it for future reference. This battery is designed for home energy storage and solar systems, offering high capacity, advanced safety features, and long lifespan.

SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in electric shock, fire, serious injury, or death.

- Always wear appropriate personal protective equipment (PPE) including insulated gloves and eye protection during installation and maintenance.
- Ensure all connections are secure and correctly polarized to prevent short circuits.
- Do not disassemble, puncture, or modify the battery.
- Keep the battery away from open flames, heat sources, and flammable materials.
- Do not expose the battery to water or excessive moisture. The IP54 rating provides protection against dust and splashing water, but not immersion.
- Only use compatible chargers and inverters. Refer to the "Seamless Expansion & Inverter Compatibility" section for compatible inverter brands.
- In case of fire, use a Class D fire extinguisher. Water can exacerbate lithium battery fires.
- Store the battery in a cool, dry, and well-ventilated area.
- Children should not operate or handle the battery.

PACKAGE CONTENTS

Verify that all components are present and undamaged upon unpacking.

Unboxing: Everything You Get!

	Pictures of accessories	Quantit	Uses		Pictures of accessories	Quantit	Uses
1		1	Battery Module	6		1	Communication Line(R.45-1.5m)
2		1	Wall-Mounted Fixed Plate	7		1	User Manual
3		1	Support Bracket	8		2	M10*100mm Pull-Out Bolt
4		2	Wall Hook			4	M6*12mm Combination Screw
5		2	Positive and Negative Pole Power Lines(4AWG-1.5m)			4	M4*8mm Screws



Image: Detailed diagram of items included in the Humsienk 48V 100Ah LiFePO4 battery package, including the battery module, mounting hardware, and cables. Note: The table below provides the exact list of included components.

Included Components

Item	Quantity	Description
Battery Module	1	Humsienk 48V 100Ah LiFePO4 Battery
User Manual	1	This instruction manual
Communication Line (RJ45-1.5m)	1	For inverter communication (CAN/RS485)
M10*100mm Pull-Out Bolt	4	For securing the battery module
Positive and Negative Pole Power Lines (2AWG-1.5m)	2	Main power cables for connection
Wall Hook	2	For wall-mounting the battery

Item	Quantity	Description
M6*12mm Combination Screw	6	Various mounting purposes
Wall-Mounted Fixed Plate	1	Mounting plate for wall installation
M4*8mm Screws	2	Various mounting purposes

SETUP AND INSTALLATION

1. Site Selection

Choose a location that is:

- Well-ventilated and dry.
- Protected from direct sunlight, rain, and extreme temperatures.
- Accessible for maintenance but secure from unauthorized access.
- Capable of supporting the battery's weight (approximately 104 lbs).

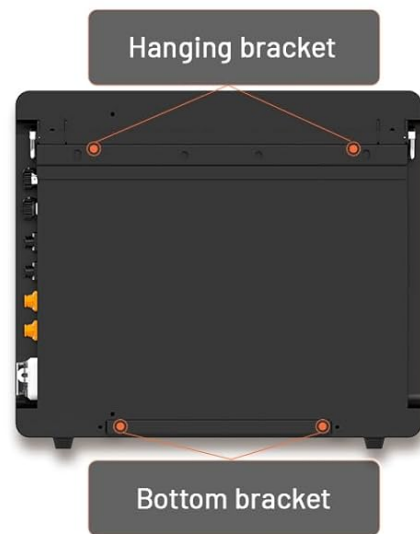
2. Wall Mounting (Recommended)

The battery is designed for wall-mounted installation to save space. Use the provided wall hooks, fixed plate, and screws.

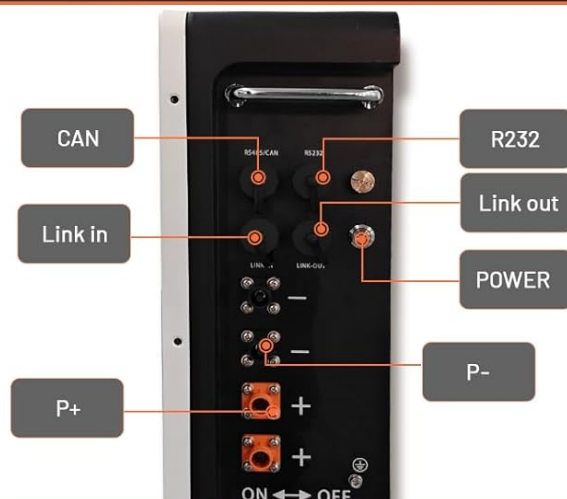
LCD Touchscreen



Multiple Installation Methods



Interface Display



Circuit Breaker

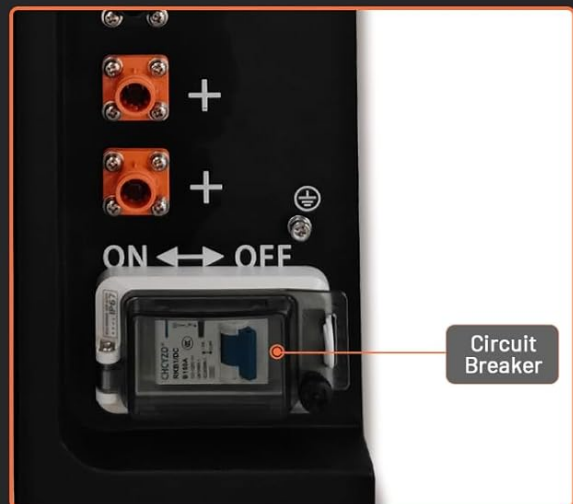


Image: Overview of the battery's features including the LCD touchscreen, various installation methods (hanging and bottom brackets), interface ports (CAN, RS485, Power), and the circuit breaker.

1. Mark the desired mounting points on the wall using the wall-mounted fixed plate as a template. Ensure the wall material can support the battery's weight.
2. Drill pilot holes and secure the wall-mounted fixed plate using the M10*100mm pull-out bolts and M6*12mm combination screws.
3. Attach the wall hooks to the battery module if not already pre-installed.
4. Carefully lift and hang the battery module onto the secured wall hooks. Ensure it is firmly seated.
5. Secure the bottom of the battery to the wall using additional screws if necessary, ensuring stability.

3. Electrical Connections

Before making any electrical connections, ensure the circuit breaker on the battery is in the **OFF** position.

100A BMS + 125A Circuit Breaker Double Protection



125A
Circuit Breaker



Over-Charge
Protection



Over-Discharge
Protection



Over-Current
Protection



Over-Voltage
Protection



Short-Circuit
Protection



High/Low-Temp
Protection

Image: Internal view emphasizing the 100A Battery Management System (BMS) and the 125A Circuit Breaker, which provide protection against overcharge, over-discharge, over-current, over-voltage, short-circuit, and temperature extremes.

1. Connect the provided Positive (red) and Negative (black) Pole Power Lines (2AWG-1.5m) to the corresponding terminals on the battery. Ensure a tight and secure connection.
2. Connect the other end of the power lines to your inverter or charge controller, observing correct polarity.
3. For communication with compatible inverters (Victron, Pylontech, Growatt, Deye, etc.), connect the provided RJ45 communication line to the CAN/RS485 port on the battery and the corresponding port on your inverter.
4. If connecting multiple batteries in parallel (up to 15 units for 76.8kWh total), use appropriate parallel connection cables and communication lines between batteries. Consult a qualified electrician for complex parallel installations.

Your Durable Home Backup Power Supports up to **15pcs in Parallel**

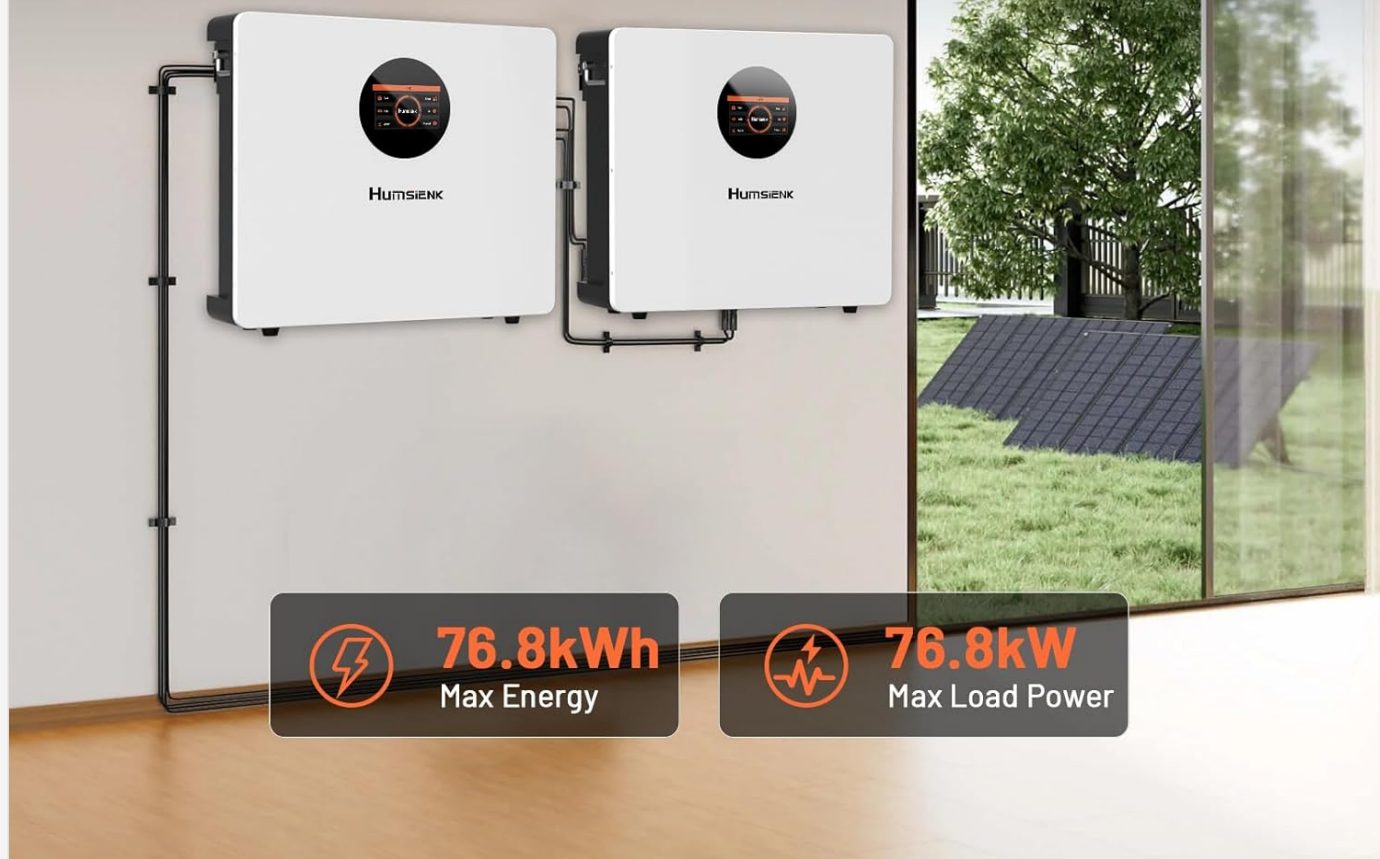


Image: Two HumsienK battery units installed side-by-side, demonstrating the parallel connection capability for increased energy storage, with solar panels visible in the background.

OPERATING INSTRUCTIONS

1. Initial Power On

1. Once all electrical connections are secure, switch the circuit breaker on the battery to the **ON** position.
2. The built-in LCD touchscreen will illuminate, displaying real-time battery status.
3. If connected to an inverter, power on the inverter according to its manual.

2. LCD Monitor and Bluetooth App

The battery features a smart LED touchscreen and Bluetooth connectivity for monitoring.

Free Up Your Energy Concerns

Monitor by Mobile APP



Image: The HumsienK battery unit on a wall, with a laptop and smartphone displaying the dedicated mobile application, illustrating remote monitoring capabilities for voltage, current, and capacity.

- **LCD Touchscreen:** Provides an immediate overview of voltage, current, capacity, and other critical parameters. Use the touchscreen to navigate menus and adjust settings if available.
- **Bluetooth App:** Download the dedicated HumsienK mobile/computer app. Pair your device with the battery via Bluetooth to monitor real-time data, including voltage, current, capacity, and inverter status. The app allows for remote monitoring and potentially firmware updates.

3. Charging and Discharging

- The battery's 100A BMS manages charging and discharging cycles, protecting against overcharge, over-discharge, and over-current.
- Optimal charging temperature range: 32°F to 131°F (0°C to 55°C).
- Optimal discharging temperature range: -4°F to 140°F (-20°C to 60°C).
- The active balancing system ensures consistent cell performance and extends battery life.

MAINTENANCE

The HumsiENK LiFePO4 battery requires minimal maintenance due to its robust design and advanced BMS.

- **Regular Inspection:** Periodically check all cable connections for tightness and signs of corrosion. Ensure the battery casing is clean and free from debris.
- **Temperature Monitoring:** Ensure the battery operates within its specified temperature ranges. Avoid prolonged exposure to extreme heat or cold.
- **Software Updates:** Check the HumsiENK app or website for any available firmware updates for the battery's BMS.
- **Cleaning:** Use a dry, soft cloth to clean the exterior of the battery. Do not use harsh chemicals or abrasive cleaners.

TROUBLESHOOTING

If you encounter issues with your HumsiENK battery, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Battery not powering on	Circuit breaker is OFF; Loose connections; Deep discharge.	Ensure circuit breaker is ON. Check all power cable connections. If deeply discharged, connect to a compatible charger.
Low capacity or short runtime	Battery not fully charged; High power draw; Extreme temperatures.	Ensure battery is fully charged. Reduce load if possible. Operate within recommended temperature range.
Bluetooth app not connecting	Bluetooth disabled on device; App not updated; Battery too far.	Enable Bluetooth on your device. Ensure the app is the latest version. Move closer to the battery. Restart both battery and device.
Overcharge/Over-discharge protection activated	Charging/discharging beyond limits.	The BMS has activated protection. Disconnect the load/charger, allow the battery to rest, and then resume operation within safe limits. Check charger/inverter settings.
Battery is hot/cold to touch	Operating outside temperature limits; High current draw.	Move the battery to a more suitable environment. Reduce load. The BMS will protect the battery from extreme temperatures.

If the problem persists, please contact HumsiENK customer support.

SPECIFICATIONS

48V 100Ah LiFePO4 Battery

5120Wh



Capacity

100A



Max. Continuous
Charge/Discharge Current

5120W



Max. Load Power

-4~140°F

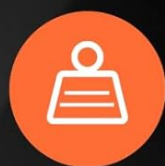


Temperature Range

Bluetooth 5.2



Smart Control



104.05 lbs



19.09
inch

21.65 inch

7.28 inch

Image: Visual representation of the Humsienk 48V 100Ah LiFePO4 battery, highlighting its key specifications such as capacity, current, power, temperature range, Bluetooth version, dimensions, and weight.

Feature	Detail
Model Name	HS48V100AH100WALLBTNEW
Battery Type	LiFePO4 (Lithium Iron Phosphate)
Nominal Voltage	48V
Capacity	100Ah (5.12kWh)
Max Continuous Charge/Discharge Current	100A
Max Load Power	5120W
BMS	Built-in 100A BMS with 3A Active Balancing

Feature	Detail
Circuit Breaker	125A
Cycle Life	6000+ cycles at 80% DOD
Communication	Bluetooth, CAN, RS485
Monitor	LCD Touchscreen, Mobile/Computer App
Dimensions (L x W x H)	21.65" x 19.09" x 7.28" (7.3 x 21.65 x 19.09 inches)
Weight	104 lbs (104.05 lbs)
Operating Temperature (Discharge)	-4°F to 140°F (-20°C to 60°C)
Operating Temperature (Charge)	32°F to 131°F (0°C to 55°C)
Waterproof/Dustproof Rating	IP54
Parallel Connection	Up to 15 units (76.8kWh)

WARRANTY AND SUPPORT

Warranty Information

The HumsienK 48V 100Ah LiFePO4 Lithium Battery comes with a **5-year Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

Please note: While Amazon may label this item as non-returnable, HumsienK offers a 30-day return or replacement policy for any confirmed technical defects. Proof of purchase is required for all warranty claims.

Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact HumsienK customer service. Our professional technical support team is available to assist you.

Contact information (example, replace with actual if available):

- Email: support@humsienk.com
- Phone: 1-800-XXX-XXXX (if applicable)
- Website: www.humsienk.com

Please have your model number (HS48V100AH100WALLBTNEW) and purchase date ready when contacting support.

PRODUCT VIDEOS

Introducing HumsienK: Reliable Energy Storage

Your browser does not support the video tag.

Video: An official introduction to HumsienK's energy storage solutions, showcasing the brand's commitment to reliable power for various applications. This video provides an overview of the product line and its benefits.

APPLICATION SCENARIOS

The HumsienK 48V 100Ah LiFePO4 battery is versatile and suitable for a range of applications:

- **Home Energy Storage:** Provides reliable backup power for residential use, ensuring continuity during outages.
- **Solar Systems:** Integrates seamlessly with solar panel installations for efficient energy capture and storage.
- **Off-Grid Homes:** Essential for independent power systems in remote locations.
- **RVs and Marine Vessels:** Offers a lightweight and long-lasting power solution for mobile and aquatic environments.



Image: A collage illustrating diverse applications of the Humsienk 48V 100Ah LiFePO4 battery, including residential backup, recreational vehicles, off-grid living, and integration with solar power systems.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question