HumsiENK 2PCS 12V 300Ah (314Ah) LiFePO4 Lithium Battery Mini

HumsiENK 12V 314Ah LiFePO4 Lithium Battery User Manual

Model: 2PCS 12V 300Ah (314Ah) LiFePO4 Lithium Battery Mini

Introduction

This manual provides essential information for the safe and efficient operation of your HumsiENK 12V 314Ah LiFePO4 Lithium Battery. Please read it thoroughly before installation and use to ensure optimal performance and longevity of your battery system.

Safety Information

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

- Always wear appropriate personal protective equipment (PPE) when handling batteries.
- Do not short-circuit the battery terminals.
- Do not expose the battery to fire, extreme heat, or direct sunlight.
- Do not immerse the battery in water or other liquids.
- Ensure proper ventilation during charging and discharging.
- Use only compatible chargers designed for LiFePO4 batteries.
- Keep out of reach of children.
- Do not disassemble, puncture, or modify the battery.
- In case of fire, use a Class D fire extinguisher. Water can exacerbate lithium fires.

What's in the Box

- 2PCS 12V 300Ah (314Ah) LiFePO4 Lithium Battery Mini
- User manual
- Screw (M8 terminals and battery bolt caps)



Image: Contents of the HumsiENK 12V 314Ah LiFePO4 Battery Mini (2 Pack) package, including the batteries and a smartphone showing the monitoring app.

Your browser does not support the video tag.

Video: An unboxing of the HumsiENK 12V 314Ah LiFePO4 battery, demonstrating the contents including the user manual and M8 terminals.

Specifications

Feature	Detail
Brand	HumsiENK
Model	2PCS 12V 300Ah (314Ah) LiFePO4 Lithium Battery Mini
Nominal Voltage	12V
Capacity	314Ah (4.01 kWh / 4.19 kWh)
BMS	Built-in 100A BMS

Cycle Life	15,000+ cycles at 60% DOD
Low-Temp Protection	Prevents charging below freezing (4°F / -20°C)
Bluetooth	Bluetooth 5.0 for smart monitoring via HumsiENK App
Dimensions (L x W x H)	15.24 × 9.72 × 7.6 inches
Weight	61.73 lbs (28 kg)
Expandability	Up to 4 in series & 4 in parallel (51.2V/1256Ah, 64.3kWh)



Image: Physical dimensions and weight of the HumsiENK 12V 314Ah LiFePO4 Mini battery.



Image: Overview of the reliable power solution features, including A+ cells, 100A BMS, Bluetooth connectivity, extensive cycle life, and wide operating temperature range.

Setup and Installation

Before installation, ensure all components are present and undamaged. Always disconnect power sources before making any connections.

Connecting Batteries

The HumsiENK 12V 314Ah LiFePO4 battery can be connected in series (up to 4 batteries for 48V systems) and in parallel (up to 4 batteries) to achieve higher voltage or capacity. Ensure all batteries are at a similar state of charge before connecting them in parallel.

Use appropriate gauge cables and M8 terminals for secure connections. Tighten all connections to prevent resistance and overheating.



Image: Example of expanding energy capacity by connecting multiple batteries, supporting up to 64.3kWh for off-grid applications.

Charging

Use a LiFePO4 compatible charger. The built-in BMS (Battery Management System) provides low-temperature cut-off protection, preventing charging below 4°F (-20°C) to prolong battery life.

Operating Instructions

Bluetooth Smart Monitoring

The battery features Bluetooth 5.0 for real-time monitoring via the HumsiENK App (available for iOS and Android). Scan the QR code on the battery or search for the app in your device's app store.

1. Download the HumsiENK App.
2. Open the app and allow Bluetooth permissions.
3. Scan the QR code on the battery to connect.
4. Monitor voltage, current, capacity, and temperature in real-time.



Image: Real-time monitoring of the battery status using the HumsiENK app via Bluetooth 5.0, showing ease of remote access.

Applications

This battery is ideal for various applications including RVs, marine vessels, solar energy systems, off-grid setups, and home backup power. Its compact and lightweight design makes it suitable for tight spaces.



Image: The battery's capability to support multiple loads, with examples of common appliances and their approximate run times.



Image: Versatile applications of the HumsiENK battery, including RVs, solar energy systems, yachts, and off-grid homes.

Maintenance

- Regularly check battery terminals for corrosion and ensure connections are tight.
- Keep the battery clean and dry.
- Store the battery in a cool, dry place when not in use, ideally at a partial state of charge (50-70%).
- Avoid prolonged storage in a fully discharged state.

Troubleshooting

Problem	Possible Cause	Solution

Battery not charging	Charger incompatibility, low temperature, BMS protection activated, loose connections.	Ensure charger is LiFePO4 compatible. Move battery to warmer environment if below 4°F (-20°C). Check app for BMS fault codes. Verify all cable connections.
Battery not discharging	Over-discharge protection, BMS protection activated, load too high.	Recharge the battery. Check app for BMS fault codes. Reduce load or use a higher capacity battery.
Bluetooth connection issues	Out of range, app glitch, battery off.	Ensure device is within 15m range. Restart app and phone's Bluetooth. Check if battery is powered on.

Warranty and Support

HumsiENK provides a 5-year warranty for this product, ensuring a worry-free experience. For any inquiries or assistance, our customer service is available 24 hours a day.
For warranty registration, please visit: www.humsienk.com/pages/warranty-registration
You can also visit the official HumsiENK Store on Amazon for more information: HumsiENK Amazon Store



Image: HumsiENK offers 24/7 customer support for all product inquiries.

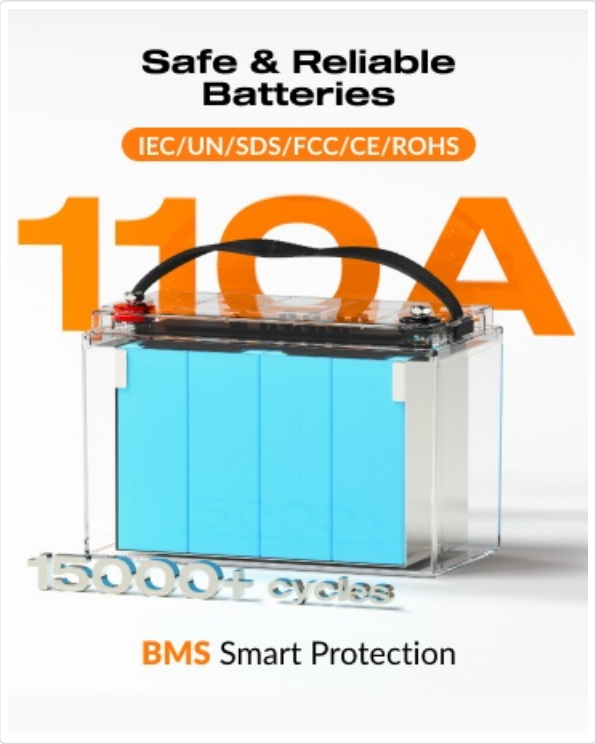


Image: Highlighting the safety and reliability of HumsiENK batteries, featuring 110A BMS and over 15,000 cycles.

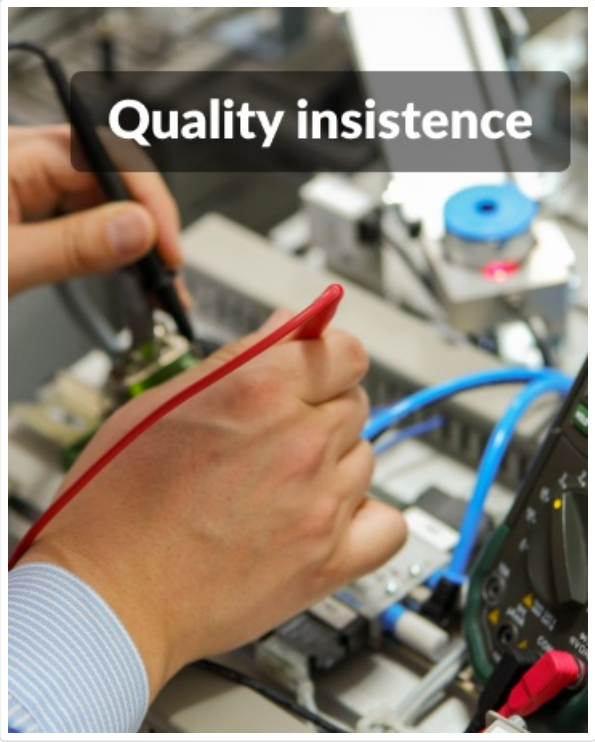


Image: Demonstrating HumsiENK's commitment to quality through rigorous testing and inspection.

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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