

QKR 48V 5A LiFePO4 Battery Charger

QKR 48V 5A LiFePO4 Battery Charger Instruction Manual

Model: 48V 5A LiFePO4 Battery Charger

1. PRODUCT OVERVIEW

The QKR 48V 5A LiFePO4 Battery Charger is specifically designed for 48V (51.2V) Lithium Iron Phosphate (LiFePO4) batteries. It features advanced microprocessor technology for smart charging, ensuring optimal performance and longevity of your batteries. This charger is suitable for various applications including golf carts, cars, trucks, marine vehicles, agricultural vehicles, ships, motorboats, lawnmowers, boats, and SUVs.

Key features include:

- **Smart Charging Technology:** Automatically detects battery status and adjusts charging rate.
- **Multi-Protection Features:** Safeguards against over-charging, over-voltage, over-temperature, short circuit, over-current, and reverse polarity.
- **Easy-To-Use:** Equipped with a 6-LED indicator display showing battery status (20%-100%) and fault alarms.
- **Cooling Fan:** Built-in fan for efficient heat dissipation during operation.

LiFePO4 Dedicated Battery Charger

58.4V 10A for 48V series LiFePO4 battery

Output Voltage: 58.4V
Rate Input Voltage: 100-240Vac
Output Current: 5A
Net Weight: 0.65kg/1.43 lbs
Dimensions: 7.9"D x 3.7"W x 2.6" H



Figure 1: QKR 48V 5A LiFePO4 Battery Charger showing 3-stage charging process and various protection features.

2. SAFETY INFORMATION

WARNING: This charger is exclusively for 48V (51.2V) LiFePO4 lithium batteries. DO NOT use it to charge lead-acid batteries or any other battery types, as this may cause damage to the battery, charger, or pose a safety risk.

- Always disconnect the power supply before connecting or disconnecting the battery charger from the battery.
- Ensure correct polarity: The red charging clip is for the anode (+) and the black charging clip is for the cathode (-).
- Avoid short circuits.
- Do not expose the charger to rain or moisture.
- Keep out of reach of children.
- Operate in a well-ventilated area.



Figure 2: Multiple safety protections integrated into the QKR 48V 5A LiFePO4 Battery Charger.

3. SETUP INSTRUCTIONS

1. **Prepare the Battery:** Ensure your 48V (51.2V) LiFePO4 battery is clean and its terminals are free from corrosion.
2. **Connect the Charger to the Battery:**
 - Connect the **red (+) alligator clip** from the charger to the **positive (+) terminal** of the LiFePO4 battery.
 - Connect the **black (-) alligator clip** from the charger to the **negative (-) terminal** of the LiFePO4 battery.
 - Ensure connections are secure.
3. **Connect the Charger to Power:** Plug the charger's AC power cord into a standard wall outlet (100-240Vac,

50/60Hz).

4. **Verify Operation:** The LED indicators on the charger will illuminate to show the charging status.

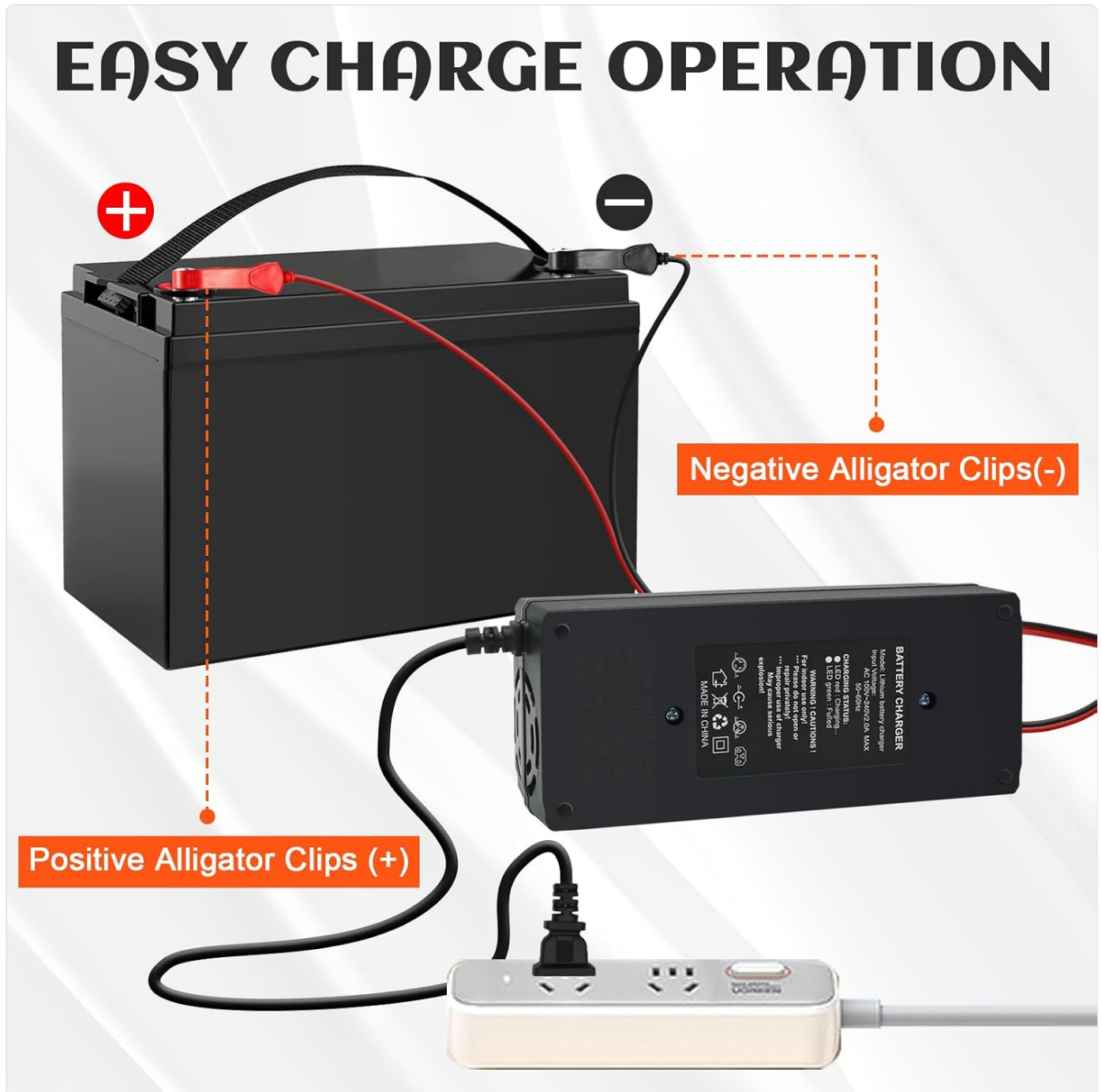


Figure 3: Easy charge operation diagram for the QKR 48V 5A LiFePO4 Battery Charger.

Video 1: Demonstrates the physical components and connection process of a 48V Lithium Battery Charger.

4. OPERATING INSTRUCTIONS

The QKR 48V 5A LiFePO4 Battery Charger employs a smart charging process to efficiently and safely charge your battery.

- **LED Indicators:** The charger features 6 LED indicator lights that display the battery's charge status in increments (20%, 40%, 60%, 80%, 100%). These LEDs also indicate fault alarms if any issues arise.
- **Smart Charging Cycle:** The advanced microprocessor automatically detects the battery's state and adjusts the charging rate. Once the battery is fully charged, the charger will automatically cut off the output to prevent over-

charging. It also features an auto re-charging function to maintain battery health if the charge drops.

- **Charging Time:** Actual charging time may vary depending on the battery's status, environment, and other factors. For example, a 51.2V 20Ah battery may fully charge in about 4 hours, a 51.2V 50Ah battery in about 10 hours, and a 51.2V 100Ah battery in about 20 hours.



Figure 4: Detailed view of the charger's LED indicators, built-in cooling fan, and easy-to-use alligator clips.

Video 2: Demonstrates the LED indicator behavior of a HoneyCare charger during testing, including error states.

5. MAINTENANCE

To ensure the longevity and optimal performance of your QKR 48V 5A LiFePO₄ Battery Charger, follow these maintenance guidelines:

- **Cleaning:** Keep the charger clean and free from dust and debris. Use a dry, soft cloth for cleaning. Do not use liquid cleaners.

- **Storage:** Store the charger in a cool, dry place when not in use. Avoid extreme temperatures and direct sunlight.
- **Heat Dissipation:** The charger features a built-in cooling fan and a thick shell for heat dissipation. Ensure the fan vents are not obstructed during operation to prevent overheating.
- **Cable Inspection:** Regularly inspect the power cord and alligator clips for any signs of damage (fraying, cuts, exposed wires). Replace if damaged.

Heat Dissipation Function

Built-in Cool Fan



Figure 5: The charger features a built-in cooling fan for effective heat dissipation.

6. TROUBLESHOOTING

If you encounter issues with your QKR 48V 5A LiFePO4 Battery Charger, refer to the following common troubleshooting steps:

- **No Power/LEDs Off:**
 - Check if the AC power cord is securely plugged into the wall outlet and the charger.

- Verify the wall outlet is functional.

- **Fault Alarm (Flashing LEDs):**

- If all LEDs flash, it indicates a short circuit. Disconnect the charger from the battery and power, then re-connect ensuring correct polarity and no short circuits.
- Other fault alarms may indicate over-voltage, over-temperature, or reverse polarity. Disconnect, check connections, and allow the charger to cool if it was hot.

- **Battery Not Charging:**

- Ensure the battery terminals are clean and connections are secure.
- Confirm the battery is a 48V (51.2V) LiFePO4 type. This charger is not compatible with other battery chemistries.
- Check the battery's health. If the battery is severely damaged or deeply discharged, it might not accept a charge.

Video 3: Illustrates the charger's LED indicators, including how they flash to signal an error condition like a short circuit, and how the charger resumes normal operation once the fault is cleared.

7. SPECIFICATIONS

Feature	Specification
Product Dimensions	6 x 2 x 3 inches (7.9"D x 3.7"W x 2.6"H)
Item Weight	12.8 ounces (0.8 Pounds)
Output Voltage	58.4 Volts
Input Voltage	100-240Vac, 50/60Hz
Output Current	5A
Battery Type	48V (51.2V) LiFePO4 Lithium Battery
Color	Black
Manufacturer	QKR

Simple AND SAFE

Lightweight, fully automatic, and easy to use.



Figure 6: Dimensions and weight of the QKR 48V 5A LiFePO4 Battery Charger.

8. WARRANTY AND SUPPORT

Warranty and support information for the QKR 48V 5A LiFePO4 Battery Charger was not provided in the available product data. Please refer to the product packaging or contact the manufacturer directly for details regarding warranty coverage and customer support.

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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