Okoman 48V 13Ah

Okoman 48V 13Ah E-Bike Battery User Manual

Model: 48V 13Ah

Introduction

This manual provides essential instructions for the safe and efficient use, installation, and maintenance of your Okoman 48V 13Ah Lithium-Ion E-Bike Battery. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.

This battery is designed for electric bicycles, compatible with motors ranging from 250W to 1000W, and is suitable for models such as the Engwe Engine X and Engwe EP2 Pro.

Important Safety Warnings

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

- Do not short-circuit the positive and negative terminals of the battery.
- Do not disassemble the battery without the assistance of a professional e-bike battery technician.
- Do not expose the battery to high temperatures, such as direct sunlight, heat sources, or near fire.
- Do not immerse the battery in water, alkaline water, or other liquids.
- Store the battery in a cool, dry place. If stored for a long period, charge it for 2 hours every 3 months.
- Always charge the battery with the approved charger specifically designed for lithium-ion or lithium polymer batteries. Never use other chargers to avoid battery issues.

Product Overview

The Okoman 48V 13Ah E-Bike Battery features a robust design with integrated safety features. It includes a 30A Battery Management System (BMS) to prevent overcharge, over-discharge, overcurrent, and short circuits.



General view of the Okoman 48V 13Ah E-Bike Battery.



Dimensions of the battery: 420mm length, 115mm width, and 58mm depth.



Close-up view of the 5-pin discharge port located at the bottom of the battery.



View of the DC2.1 charging port and the security lock mechanism with keys, designed for easy removal and theft prevention.

Specifications

Feature	Detail
Battery Type	Lithium-Ion
Nominal Voltage	48V
Nominal Capacity	13Ah
Cell Configuration	13S5P / 14S5P (65/70 cells)
Battery Dimensions (L x W x H)	420mm x 115mm x 58mm
BMS Protection Board	30A (Max. Constant Discharge Current)

Feature	Detail
Charging Voltage	54.6V
AC Input (Charger)	110-240V, 50/60Hz
Charger Output	2A
Charging Port	DC2.1
Discharge Port	5-pin
Compatible Motor Power	250W - 1000W

Setup and Installation

1. **Initial Charge:** Upon receiving the battery, it is recommended to fully charge it before the first use. Connect the provided 2A charger to the DC2.1 charging port on the battery and then plug the charger into a standard AC outlet (110-240V). The charger indicator light will typically turn green when fully charged.
2. **Mounting the Battery:**
    - Ensure your e-bike frame has a compatible mounting bracket for this battery type.
    - Slide the battery onto the mounting bracket until it clicks securely into place.
    - Use the provided key to lock the battery to the frame. This prevents theft and ensures the battery remains secure during riding.
3. **Connecting to the E-Bike:**
    - Connect the 5-pin discharge port of the battery to the corresponding connector on your e-bike's motor or controller system.
    - Ensure all connections are firm and secure.

Note: The battery is designed to be lightweight and easy to install and remove, featuring an anti-theft lock and protection against sand and water.

Operating Instructions

1. **Turning On/Off:** Most e-bikes have a power button on the display or controller. Ensure the battery is locked in place and connected, then use the e-bike's power button to activate the system.
2. **Monitoring Battery Level:** Your e-bike's display will typically show the current battery charge level. Plan your rides accordingly.
3. **Charging the Battery:**
    - Always use the original 2A charger provided with the battery.
    - Connect the charger to the battery's DC2.1 charging port.
    - Plug the charger into a standard wall outlet.
    - The charging indicator on the charger will show the charging status (e.g., red for charging, green for full).
    - Do not overcharge the battery; disconnect the charger once fully charged.
4. **Removing the Battery:** Unlock the battery with the key and slide it off the mounting bracket. This is useful for charging indoors or for security.

Maintenance and Storage

- **Cleaning:** Wipe the battery exterior with a dry or slightly damp cloth. Do not use harsh chemicals or immerse the battery in water.
- **Storage:**
  - Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures.
  - For long-term storage (over one month), charge the battery to approximately 50-60% capacity.
  - Recharge the battery for about 2 hours every 3 months during long-term storage to prevent deep discharge and maintain cell health.
- **Charger Care:** Keep the charger clean and dry. Do not use a damaged charger or one not approved for this battery.
- **Connection Points:** Periodically check the charging and discharge ports for any debris or corrosion. Clean gently if necessary.

Troubleshooting

Problem	Possible Cause	Solution
Battery not charging	Charger not connected properly; Faulty charger; Battery deeply discharged; Charging port issue.	Ensure charger is securely plugged into battery and wall outlet. Check charger indicator light. If battery is deeply discharged, try charging for a longer period. Contact support if issue persists.
E-bike not powering on	Battery not locked/connected; Battery charge too low; E-bike system fault.	Ensure battery is fully charged, securely mounted, and locked. Check all connections. If the problem persists after verifying battery function, consult your e-bike's manual or a technician.
Reduced range or power	Battery degradation; Improper charging habits; Extreme temperatures.	Ensure proper charging and storage practices. Avoid operating in extreme cold or heat. If battery is old, consider replacement.
Battery gets hot during charging/use	Normal operation (slight warmth); Overcharging; Internal fault.	Slight warmth is normal. If the battery becomes excessively hot, disconnect immediately and contact support. Do not continue use.

Warranty Information

The product comes with a limited warranty. For specific details regarding the warranty period and coverage, please refer to the documentation provided with your purchase or contact Okoman customer support directly. Keep your proof of purchase for warranty claims.

Note: The product description mentions "Description de la garantie: 1", which typically indicates a 1-year warranty, but please confirm with the manufacturer.

Customer Support

If you encounter any issues or have questions not covered in this manual, please contact Okoman customer support. They aim to respond within 24 hours.

For support, please refer to the contact information provided at the point of purchase or on the official Okoman website.

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