

4803-HB

Generic 48V 13Ah Ebike Battery User Manual

Model: 4803-HB

1. PRODUCT OVERVIEW

This manual provides essential information for the safe and efficient use of your Generic 48V 13Ah Ebike Battery. This high-density lithium-ion battery is designed for electric bikes with 100-1000W motors, offering extended range and reliable performance.



Image 1.1: The Generic 48V 13Ah Ebike Battery, showcasing its compact design.

Key features include:

- **High Capacity:** 48V 13Ah for extended range.
- **Integrated BMS:** Built-in 30A Battery Management System for protection against overcharge, over-discharge, overcurrent, short circuit, overvoltage, and temperature fluctuations.
- **Enhanced Safety:** Features a robust anti-theft lock to secure the battery to your bike frame.
- **Durable Construction:** Made from high-quality aluminum and plastic for longevity.
- **Portable Design:** Includes a portable handle for easy carrying.



Image 1.2: Visual representation of battery specifications including module, size, energy, motor compatibility, weight, and charger details.

2. PACKAGE CONTENTS

Please check the package carefully to ensure all items are present and undamaged.

- 1 x 48V 13Ah Ebike Battery
- 1 x 54.6V 2A Charger
- 2 x Keys (for the anti-theft lock)
- Mounting Screws
- English User Manual (this document)

Package Include



Image 2.1: Contents of the package, including the battery, charger, keys, and mounting screws.

3. SAFETY INFORMATION

WARNING: Read all safety instructions before using the battery. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not immerse the battery in water or expose it to rain.
- Do not use or store the battery near heat sources, open flames, or in direct sunlight.
- Use only the provided charger. Using an incompatible charger may damage the battery and pose a fire risk.
- Do not short-circuit the battery terminals.
- Do not disassemble, puncture, or modify the battery.
- Keep out of reach of children.
- If the battery emits an unusual odor, heat, changes color, or appears abnormal during use or charging,

discontinue use immediately and contact support.

3.1 Battery Management System (BMS)

The integrated 30A BMS provides comprehensive protection for the battery:

- **Overcharge Protection:** Prevents the battery from being charged beyond its safe voltage limit.
- **Over-discharge Protection:** Prevents the battery from being discharged below its safe voltage limit.
- **Overcurrent Protection:** Protects against excessive current draw.
- **Short Circuit Protection:** Automatically cuts off power in case of a short circuit.
- **Overvoltage Protection:** Safeguards against voltage spikes.
- **Temperature Protection:** Monitors and protects the battery from extreme temperatures.



Image 3.1: Icons illustrating the various protection features provided by the 30A BMS.

4. SETUP AND INSTALLATION

Before installation, ensure your e-bike's motor is compatible with a 48V battery and that the discharge connector matches the battery's port.

4.1 Discharge Port Compatibility

Verify that the discharge port on your e-bike is compatible with the battery's discharge socket. Incompatible ports can prevent proper connection and operation.



Image 4.1: Visual guide for checking the discharge port compatibility between the battery and your e-bike.

4.2 Mounting the Battery

1. Identify a suitable and secure location on your e-bike frame for mounting the battery.
2. Use the provided mounting screws to securely attach the battery holder (if applicable, or directly mount the battery if designed for it) to the frame. Ensure it is stable and will not vibrate loose during riding.
3. Slide the battery into the mounted holder.
4. Use one of the provided keys to engage the anti-theft lock, securing the battery to the frame. Turn the key to the locked position and remove it.
5. Connect the battery's discharge cable to your e-bike's motor controller. Ensure a firm connection.

Safe Lock

Lock, use to lock the battery on the frame.



Portable Handle

Easier to carry battery. Disassembly and assembly is more convenient.



Charge Socket

The charge current for this socket can not be more than 5amps.



Image 4.2: Close-up of the battery's safe lock mechanism and portable handle for secure mounting and easy transport.

5. OPERATING INSTRUCTIONS

5.1 Charging the Battery

Always use the provided 54.6V 2A charger for optimal performance and safety. The charge current for the socket should not exceed 5 amps.

1. Ensure the battery is turned off (if it has a power switch).
2. Connect the charger's output plug to the battery's charge socket.
3. Plug the charger into a standard wall outlet.
4. Observe the indicator light on the charger. Typically, a red light indicates charging, and a green light indicates a full charge.
5. Once fully charged, disconnect the charger from the wall outlet first, then from the battery.

NOTE: Do not leave the battery charging unattended for extended periods.

5.2 Using the Battery

1. Ensure the battery is securely mounted and locked onto your e-bike frame.
2. Connect the battery to your e-bike's motor system.
3. If your battery has a power switch, turn it to the "ON" position.
4. Operate your e-bike as per its manufacturer's instructions.
5. After use, turn off the battery (if applicable) and disconnect it from the e-bike if storing for an extended period.

6. MAINTENANCE

- **Cleaning:** Wipe the battery exterior with a soft, dry cloth. Do not use water or cleaning agents directly on the battery.
- **Storage:** Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures. For long-term storage, charge the battery to approximately 50-60% capacity and recharge every 2-3 months to prevent deep discharge.
- **Avoid Impacts:** Protect the battery from physical shocks and drops.
- **Connector Care:** Keep the charging and discharge ports clean and free of debris.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Battery not charging	Charger not plugged in; faulty charger/cable; battery deeply discharged; charge port dirty.	Ensure charger is properly connected to wall and battery. Check charger indicator light. Clean charge port. If problem persists, contact support.
E-bike not powering on with battery	Battery not connected; battery power switch off; battery discharged; faulty discharge cable/port.	Ensure battery is fully charged and securely connected. Turn on battery power switch. Check discharge port for debris.
Reduced range or power	Battery not fully charged; aging battery; extreme temperatures; heavy load.	Ensure full charge. Operate within recommended temperature range. Consider battery replacement if significantly aged.
Battery lock not engaging/disengaging	Key misalignment; debris in lock mechanism.	Gently wiggle the key while turning. Clean the lock mechanism. Do not force the key.

If you experience any issues not listed here or if the suggested solutions do not resolve the problem, please

contact our customer support team.

8. SPECIFICATIONS

Specification	Value
Model Name	48V 13Ah Ebike Battery
Model Number	4803-HB
Battery Type	Lithium-ion
Nominal Voltage	48V
Capacity	13Ah
Energy	624 Wh
Motor Compatibility	100-1000W Ebike Motors
BMS	30A (Overcharge, Over-discharge, Overcurrent, Short Circuit, Overvoltage, Temperature Protection)
Charger Output	54.6V 2A
Item Dimensions (L x W x H)	14.4 x 5.1 x 3.4 inches (365 x 130 x 87 mm)
Weight	Approx. 9.0 lbs (4.1 kg)
Material	Aluminum, Plastic

9. WARRANTY INFORMATION

This product comes with a **1-year warranty** from the date of purchase. The warranty covers manufacturing defects and material faults under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or failure to follow the instructions in this manual.

Please retain your proof of purchase for warranty claims.

10. SUPPORT

For any questions, concerns, or technical assistance regarding your Generic 48V 13Ah Ebike Battery, please contact our customer support team. We aim to resolve issues within 24 hours.

Contact Information: Please refer to your purchase platform or seller's contact details for direct support.

