CHENHO 750W/1000W

CHENHO Electric Bike Controller User Manual

Model: 750W/1000W (36V/48V/64V 30A)

1. Introduction

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your CHENHO Electric Bike Controller. This high-performance controller is designed for electric bikes and scooters, compatible with 36V, 48V, and 64V systems, supporting 750W to 1000W motors. It is suitable for brushless motors, with or without Hall sensors.
Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. Product Overview

Key Features:

- **Versatile Compatibility:** Works seamlessly with 36V, 48V, and 64V systems, supporting 750W/1000W motors for electric bikes and scooters.
- **Smooth Sine Wave Technology:** Delivers quieter operation, reduced heat, and smoother acceleration for enhanced riding comfort and efficiency.
- **Powerful Output:** Features a 30±1A max current (15A rated) for strong torque and stable power, suitable for various terrains.
- **Durable Construction:** Built from aluminum and reinforced plastic for heat resistance and long-term reliability.
- **Smart 3-Mode Safety:** Includes low-brake input, 1.1–4.2V speed adjustment, and low-voltage protection (DC 30/40±0.5V) to prevent battery over-discharge and ensure safe operation.

What's in the Box:

- 1 x Electric Bicycle Controller
- 1 x User Manual
- 1 x Cycling Gloves (as a bonus item)

Image: The package contents, including the controller, user manual, and cycling gloves.

3. Setup and Installation

Before proceeding with installation, ensure your electric bike or scooter's voltage and power specifications are compatible with this controller (36V/48V/64V, 750W/1000W). This controller can be used with or without Hall motors.

Wiring Diagram:

Refer to the diagram below for proper connection of the controller's various wires. Each connector is labeled for easy identification.

Image: A detailed view of the controller's wiring harness, showing connections for E-brake, PAS, Battery, Hall line, Throttle, Brake, Display, Self-study, and Light.

- **Battery (2pin):** Connect to your e-bike/scooter battery.
- **Motor Phase Line (3pin):** Connect to the motor's phase wires.
- **Hall Line (6pin):** Connect to the motor's Hall sensor wires (if applicable).
- **Throttle (3pin):** Connect to the throttle assembly.
- **Brake (2pin):** Connect to the brake levers (low-level input).
- **E-brake (2pin):** Connect to the electronic brake system.
- **PAS (3pin):** Connect to the Pedal Assist System sensor.
- **Display (5pin):** Connect to your compatible display unit.
- **Light (2pin):** Connect to the e-bike/scooter light.
- **Self-study (1pin):** Used for initial motor pairing/learning.

Ensure all connections are secure and correctly matched to prevent damage to the controller or other components.

Installation Video Guide:

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Video: An official CHENHO video demonstrating the features and potential installation steps for the electric bike controller. This video provides a visual overview of the product's capabilities and how it integrates with an e-bike system.

4. Operating Instructions

The CHENHO Electric Bike Controller is designed for intuitive operation, providing smooth and responsive control for your electric bike or scooter.

Basic Operation:

1. **Power On:** Ensure all connections are secure and turn on your e-bike/scooter's main power switch.
2. **Throttle Control:** Use the throttle (1.1-4.2V adjustable range) to control acceleration. The sine wave technology ensures a smooth and quiet power delivery.
3. **Pedal Assist System (PAS):** If connected, the PAS will provide motor assistance based on your pedaling input.
4. **Braking:** Apply the brake levers. The low-level brake input will cut off motor power, and the E-brake system will engage if connected.

Safety Features:

- **Low-Voltage Protection:** The controller includes protection at DC 30/40±0.5V to prevent battery over-discharge, extending battery life.
- **Responsive Braking:** The low-brake input ensures immediate motor power cut-off upon braking for enhanced safety.

5. Maintenance

The CHENHO Electric Bike Controller is designed for durability with its aluminum and reinforced plastic construction. Regular maintenance will help ensure its longevity and optimal performance.

- **Keep Clean:** Periodically wipe the controller's exterior with a dry cloth to remove dust and dirt. Avoid using harsh chemicals or excessive moisture.
- **Check Connections:** Regularly inspect all wiring connections to ensure they are secure and free from corrosion or damage. Loose connections can lead to intermittent operation or component failure.
- **Avoid Overheating:** Ensure the controller is mounted in a location with adequate airflow to prevent overheating, especially during prolonged high-power usage.
- **Protect from Water:** While durable, avoid submerging the controller in water or exposing it to heavy rain for extended periods.

6. Troubleshooting

This controller features built-in error codes to assist with diagnosing common issues. If you encounter a problem, check the display for error codes and refer to the solutions below.

Error Code	Description	Possible Solution

Error Code	Description	Possible Solution
E10	Display Communication Error	Check the connection between the controller and the display unit. Ensure cables are securely plugged in and not damaged. Restart the system.
03	Throttle Signal Error	Inspect the throttle wiring for any damage or loose connections. Ensure the throttle is functioning correctly. Replace if necessary. Restart the system.

For issues not listed here or if the problem persists after attempting the solutions, please contact customer support.

7. Specifications

Feature	Detail
Rated Voltage	DC 36V/48V/64V
Power	750W/1000W
Maximum Current	30±1A
Rated Current	15A
Throttle Voltage Setting	1.1-4.2V
Low Voltage Protection	DC 30/40±0.5V
Brake Input	Low Level
Mosfets	9 Mos (or 12 Mos, depending on batch)
Material	Aluminum + ABS Plastic
Color	Black
Dimensions (LxWxH)	15.3 x 9 x 4.5 cm (6.02 x 3.54 x 1.77 inches)
Weight	Approx. 390g (0.86 lbs)
Model Type	Three-mode (Sine Wave)

Image: The physical dimensions of the controller, showing length, width, and height measurements.

8. Warranty Information

The CHENHO Electric Bike Controller comes with a**2-Year Manufacturer Warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.
The warranty does not cover damage caused by improper installation, misuse, accidents, unauthorized modifications, or normal wear and tear.

9. Customer Support

If you have any questions, concerns, or require assistance with your CHENHO Electric Bike Controller, please do not hesitate to contact our customer support team. We are available to help you before and after your purchase.
For support, please refer to the contact information provided with your purchase or visit the official CHENHO store on Amazon:

Visit the CHENHO Store on Amazon

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

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