DOITOOL 047L22O6RW226

DOITOOL Electric Scooter and Bike Controller User Manual

1. Introduction

1.1 Product Overview

The DOITOOL Electric Scooter and Bike Controller is a versatile control module designed for electric scooters, electric bicycles, and electric tricycles. It provides efficient power management and speed control for your electric vehicle's motor. This controller is engineered for durability and reliable performance.

Image: The DOITOOL Electric Scooter and Bike Controller, showcasing its compact design and multiple wiring connectors.

1.2 Intended Use

This controller is intended for use as a replacement or upgrade component in electric scooters, electric bicycles, and electric tricycles that operate within the specified voltage and power ranges. It is designed to manage motor speed and power output effectively.

1.3 Package Contents

- 1 x DOITOOL Electric Scooter and Bike Controller

2. Installation Guide

2.1 Safety Precautions

- Ensure the electric vehicle's power is completely off and the battery is disconnected before beginning installation.
- Wear appropriate safety gear, including insulated gloves and eye protection.
- If you are unsure about any step, consult a qualified technician.
- Avoid short-circuiting wires during installation.

2.2 Mounting the Controller

Select a secure and dry location on your electric vehicle for mounting the controller. Ensure it is protected from direct water exposure and excessive vibration. The controller features mounting tabs for secure attachment.

Image: The DOITOOL controller securely mounted within the frame of an electric scooter, demonstrating a typical installation scenario.

2.3 Wiring Diagram Overview

The controller features various color-coded connectors for different functions. While a detailed universal wiring diagram is not provided here due to variations in vehicle models, the general connections include:

- **Power Input:** Connects to the battery (typically red for positive, black for negative).
- **Motor Output:** Connects to the electric motor.
- **Throttle/Accelerator:** Connects to the speed control mechanism.
- **Brake Levers:** Connects to the brake sensors for motor cut-off.
- **Other Accessories:** May include connections for lights, display, or other vehicle-specific components.

Refer to your electric vehicle's specific wiring diagram and match the connectors carefully. Ensure all connections are firm and insulated to prevent electrical hazards.

Image: A collage showing the controller in various installation contexts on electric scooters, highlighting its integration with existing wiring.

3. Operation

3.1 Basic Functionality

Once properly installed and connected, the controller manages the power flow from the battery to the motor based on the throttle input. It provides smooth acceleration and deceleration, contributing to an efficient riding experience.

3.2 Voltage and Power Settings

The controller is designed to operate with 36V or 48V systems and has a power output of 350W. Ensure your battery and motor are compatible with these specifications for optimal performance and to prevent damage.

4. Maintenance and Care

4.1 Cleaning

Keep the controller clean and free from dust, dirt, and moisture. Use a dry, soft cloth to wipe the exterior. Do not use harsh chemicals or immerse the controller in water.

4.2 Inspection

Periodically inspect all wiring connections to ensure they are secure and free from corrosion or damage. Check the controller's casing for any signs of physical damage.

4.3 Storage

If the electric vehicle is to be stored for an extended period, ensure the controller is kept in a dry, cool environment. Disconnect the battery to prevent any potential drain or electrical issues.

5. Troubleshooting

5.1 Common Issues

- **Motor Not Responding:**
  - Check battery charge level.
  - Verify all power connections to the controller and motor are secure.
  - Inspect throttle and brake lever connections.
- **Intermittent Power:**
  - Check for loose or corroded wiring connections.
  - Ensure the battery is providing consistent power.
- **Unusual Noises or Overheating:**
  - Immediately power off the vehicle.
  - Check for short circuits or incorrect wiring.
  - Ensure the motor is not overloaded.

If troubleshooting steps do not resolve the issue, contact customer support or a qualified technician.

6. Product Specifications

Feature	Specification

Feature	Specification
Brand	DOITOOL
Model Number	047L22O6RW226
Voltage	36V/48V
Power	350W
Output Current	15A-18A
Turn Voltage	1.1±4.2V
Material	Metal
Dimensions (L x W x H)	9.45 x 2.75 x 1.57 inches (approx. 24 x 7 x 4 cm)
Item Weight	9.3 ounces (approx. 0.58 lbs)

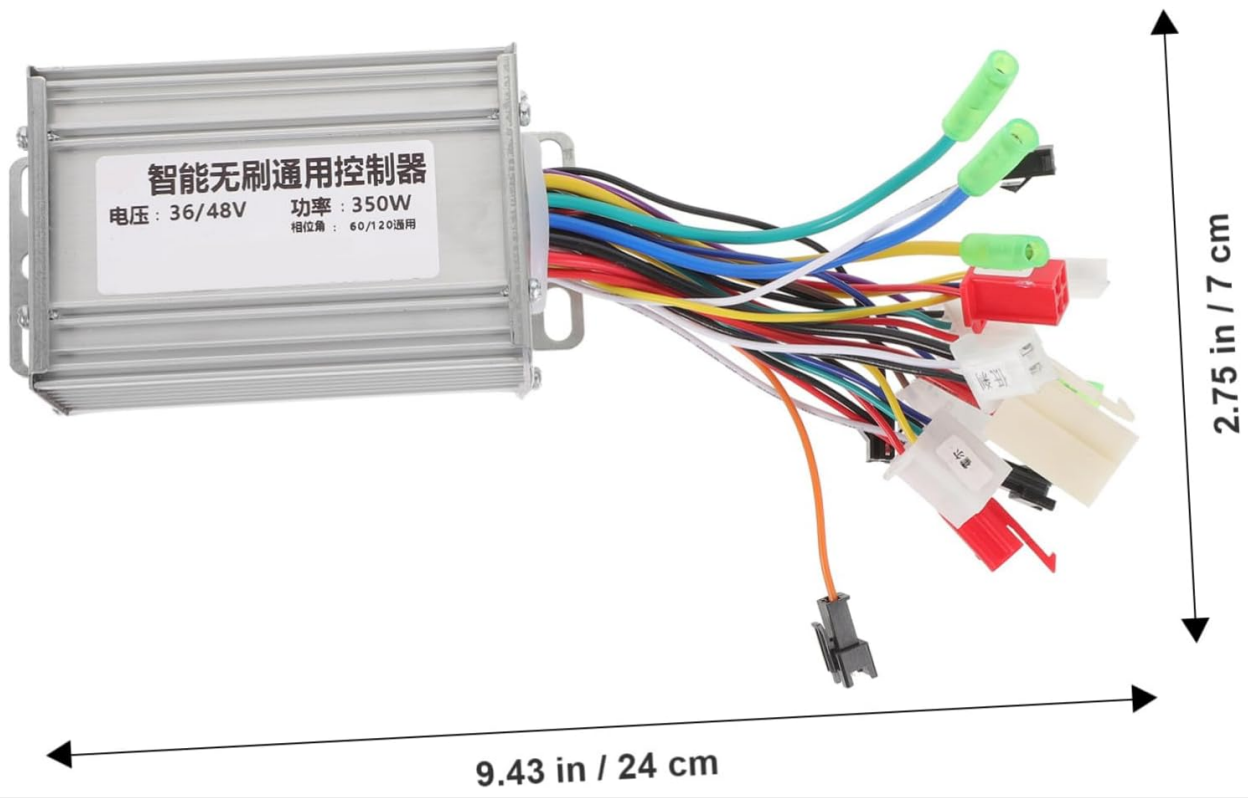

Image: The DOITOOL controller displaying its physical dimensions, approximately 9.43 inches in length and 2.75 inches in width.

7. Warranty and Support

7.1 Warranty Information

Specific warranty details for the DOITOOL Electric Scooter and Bike Controller are not provided in this manual. Please refer to your purchase documentation or contact the retailer for warranty terms and conditions.

7.2 Customer Support

For technical assistance, troubleshooting beyond the scope of this manual, or inquiries regarding your product, please contact DOITOOL customer support through their official website or the retailer from whom the product was purchased.