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Alomejor Alomejorgi7uy83ok5

Alomejor Brushless Motor Controller User Manual

Models: 48V/60V/64V, 1000W-1500W (Model: Alomejorgi7uy83ok5)

1. Introduction

Thank you for choosing the Alomejor Brushless Motor Controller. This controller is designed to provide smooth and efficient power delivery for electric vehicles, including electric bicycles and scooters, with brushless motors ranging from 1000W to 1500W. It supports multiple voltage inputs (48V, 60V, 64V) and features intelligent self-learning recognition for optimal performance. Please read this manual thoroughly before installation and operation to ensure safe and correct usage.



Image 1.1: The Alomejor Brushless Motor Controller, showcasing its compact design and numerous connection wires.

2. Product Overview and Features

The Alomejor Brushless Motor Controller is engineered for reliability and performance, offering a comfortable riding experience with minimal motor noise. Key features include:

- **Smooth Operation:** Ensures a more comfortable ride by driving the motor smoothly.
- **Low Noise:** Designed to minimize motor sound and eliminate tire noise, enhancing the riding experience.
- **Versatile Motor Compatibility:** Capable of driving sine wave motors, rectangular motors, and motors without Hall sensors.
- **Intelligent Self-Learning:** Automatically recognizes motor phases, eliminating the need for manual matching.
- **Comprehensive Functions:** Supports power supply, electric door lock, motor phase line, Hall line, speed-up line, three-speed lines, low-level brake lines, high-level brake line, general instrument line, anti-theft alarm power cord, anti-theft alarm lines, and reverse lines.



Image 2.1: The controller is suitable for various 2-wheeled electric vehicles, including electric bikes and scooters.

3. Specifications

Feature	Specification
Brand	Alomejor
Model Name	Alomejorgi7uy83ok5
Battery Voltage	48V / 60V / 64V
Current Limit	28A - 32A
Wattage	1000W - 1500W (Max 1500W)
Brake Level	High/Low Electrical Level
Phase Angle	60° / 120° Automatic Identification

Feature	Specification
Material	Metal
Item Weight	0.54 Kilograms
Dimensions (L x W x H)	17.7cm x 8.4cm x 4.1cm (approx. 7 x 3.3 x 1.6 inches)



Image 3.1: Physical dimensions of the motor controller.

4. Safety Information

Always prioritize safety when working with electrical components. Failure to follow these guidelines may result in injury or damage to the product.

- Ensure the power source is disconnected before performing any installation, wiring, or maintenance.
- Verify that the voltage of your battery and motor matches the controller's specifications (48V/60V/64V).

- Avoid short circuits by ensuring all connections are secure and properly insulated.
- Do not expose the controller to water, excessive moisture, or extreme temperatures.
- Seek professional assistance if you are unsure about any wiring or installation steps.

5. Setup and Installation

Proper installation is crucial for the optimal performance and longevity of your motor controller. Refer to the wiring diagram and video for guidance.

5.1 Wiring Diagram Overview



Image 5.1: Comprehensive wiring diagram showing all connections for the motor controller.

5.2 Connection Steps

1. **Power Supply:** Connect the main power wires (thick red for positive, thick black for negative) to your battery.
2. **Motor Phase Lines:** Connect the three thick motor phase wires (typically blue, green, yellow) from the controller to the corresponding motor phase wires.
3. **Hall Sensor Wires (if applicable):** Connect the Hall sensor wires (usually a small 5-wire connector) from the controller to the motor's Hall sensor port. If your motor does not have Hall sensors, the controller can operate in 'no Hall' mode.
4. **Electric Door Lock:** Connect the electric door lock wire (often red) to the ignition switch or main power switch. This acts as the ignition for the controller.
5. **Speed Control Handle (Throttle):** Connect the throttle wires (typically a 3-wire connector) to your throttle unit.
6. **Brake Lines:** Connect the low-level brake line and high-level brake line to your brake levers. These provide regenerative braking or motor cut-off functions.
7. **Three-Speed Lines:** Connect these wires to your three-speed switch (if equipped) to select different speed modes.
8. **General Instrument Line:** Connect to your display or instrument panel for speed, battery level, etc.
9. **Anti-Theft Alarm:** Connect the anti-theft alarm power cord and signal lines to your alarm system (if equipped).
10. **Reverse Gear:** Connect the reverse line to a switch for reverse functionality (if desired).

11. **Intelligent Self-Learning Recognition:** After all connections are made, connect the two 'Learning Wire' connectors (often white or black with labels). The motor will spin automatically. Once it runs smoothly, disconnect the learning wires. This process allows the controller to automatically identify the motor's phase and Hall sensor configuration.

5.3 Installation Video Guide

Your browser does not support the video tag.

Video 5.1: This video demonstrates the connection process for the motor controller, providing a visual aid for installation.

6. Operating Instructions

Once the controller is correctly installed and the self-learning process is complete, you can operate your electric vehicle.

- **Power On:** Turn on the electric door lock or main power switch. The system should initialize.
- **Throttle Control:** Gently twist the throttle to accelerate. The controller provides smooth acceleration.
- **Speed Modes:** If equipped with a three-speed switch, use it to cycle through different speed settings (e.g., low, medium, high).
- **Braking:** Apply the brake levers to engage the braking function. The controller will cut power to the motor and may engage regenerative braking if supported.
- **Reverse Function:** If the reverse line is connected to a switch, activate it to engage reverse motion.

7. Maintenance

Regular maintenance helps ensure the longevity and reliable performance of your motor controller.

- **Keep Clean:** Periodically clean the exterior of the controller to prevent dust and debris buildup, which can affect heat dissipation.
- **Check Connections:** Regularly inspect all wiring connections for tightness and signs of corrosion or damage. Secure any loose connections.
- **Avoid Overheating:** Ensure the controller is mounted in a location with adequate airflow to prevent overheating, especially during prolonged high-power usage.
- **Protect from Elements:** Shield the controller from direct exposure to rain, snow, and extreme sunlight.

8. Troubleshooting

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

Problem	Possible Cause	Solution
Motor does not start	No power, loose connections, electric door lock not engaged, learning wires not used.	Check battery connection, ensure electric door lock is on, verify all main wires are secure, perform self-learning process.
Motor runs intermittently or with jerks	Loose Hall sensor wires, incorrect phase connection, motor or controller fault.	Check Hall sensor connections, re-perform self-learning, inspect motor for damage.
No response from throttle	Throttle wires loose or damaged, throttle unit faulty.	Inspect throttle wiring, test throttle unit if possible.
Controller overheats	Insufficient ventilation, motor drawing too much current, prolonged heavy load.	Ensure adequate airflow around the controller, reduce continuous heavy loads, check motor for issues.

If the problem persists after attempting these solutions, please contact customer support.

9. Warranty and Support

The Alomejor Brushless Motor Controller is covered by a standard manufacturer's warranty against defects in materials and workmanship. For specific warranty details, please refer to your purchase documentation or contact the seller directly. For technical support or further assistance, please reach out to Alomejor customer service through your retailer or the official brand channels.

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