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› Srutueo 48V/60V/72V 50A Electric Bike Controller 1500W Sine Wave User Manual

Srutueo 48V/60V/72V 50A 1500W Sine Wave Split Intelligent Motor Speed Controller

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Model: 48V/60V/72V 50A 1500W Sine Wave Split Intelligent Motor Speed Controller

INTRODUCTION

Thank you for choosing the Srutueo 48V/60V/72V 50A Electric Bike Controller. This intelligent sine wave controller is designed to provide efficient and smooth power delivery for your electric bicycle, enhancing your riding experience. This manual provides essential information for the proper installation, operation, and maintenance of your controller. Please read it thoroughly before use.

SAFETY INFORMATION

- Always disconnect the battery before performing any installation, maintenance, or repair work on the controller or electric bike system.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- Avoid exposing the controller to water, excessive moisture, or extreme temperatures.
- Do not attempt to open or modify the controller casing. This may void the warranty and pose a safety risk.
- Professional installation is recommended for optimal performance and safety.

PRODUCT OVERVIEW

The Srutueo Electric Bike Controller is a robust unit designed for various electric bicycle applications. It features a durable casing and multiple wiring harnesses for connecting to your motor, battery, throttle, and other components.



Image: Side view of the Srutueo Electric Bike Controller, showing its aluminum heat sink and multiple wire connections.



Image: Top view of the controller, highlighting the label with voltage, power, and current ratings.

SPECIFICATIONS

Feature	Specification
Voltage Compatibility	48V / 60V / 72V
Undervoltage Protection	42V / 52V / 62V
Rated Power	1500W
Current Limit	50A
Dimensions (approx.)	17.8 x 9 x 4.9 cm (7.0 x 3.5 x 1.9 inches)
Item Weight	1.58 pounds (0.72 kg)
Material	Plastic + Metal

SETUP AND INSTALLATION

- Proper installation is crucial for the safe and efficient operation of your electric bike. If you are unsure about any steps, consult a qualified technician.
- Mounting the Controller:** Securely mount the controller in a protected location on your electric bike, away from direct water spray and excessive vibration. Use the integrated mounting brackets.
 - Battery Connection:** Connect the main power cables from the controller to your battery. Ensure correct polarity (red to positive, black to negative).
 - Motor Connection:** Connect the motor phase wires (typically three thick wires) and Hall sensor wires (smaller wires) from the controller to your motor. Match colors carefully.
 - Throttle Connection:** Connect the throttle cable to the designated throttle port on the controller.
 - Brake Lever Connection:** Connect the brake lever cut-off wires (if applicable) to the controller. These typically cut power to the motor when brakes are applied.
 - Display/Meter Connection:** If your system includes a display or meter, connect its cable to the corresponding port on the controller.
 - Other Connections:** Connect any other accessories such as pedal assist sensor (PAS), lights, or horn according to their specific wiring diagrams and the controller's available ports.
 - Initial Test:** After all connections are made, double-check them. Turn on the battery and then the controller. Test the throttle and brakes at a low speed in a safe environment before riding.

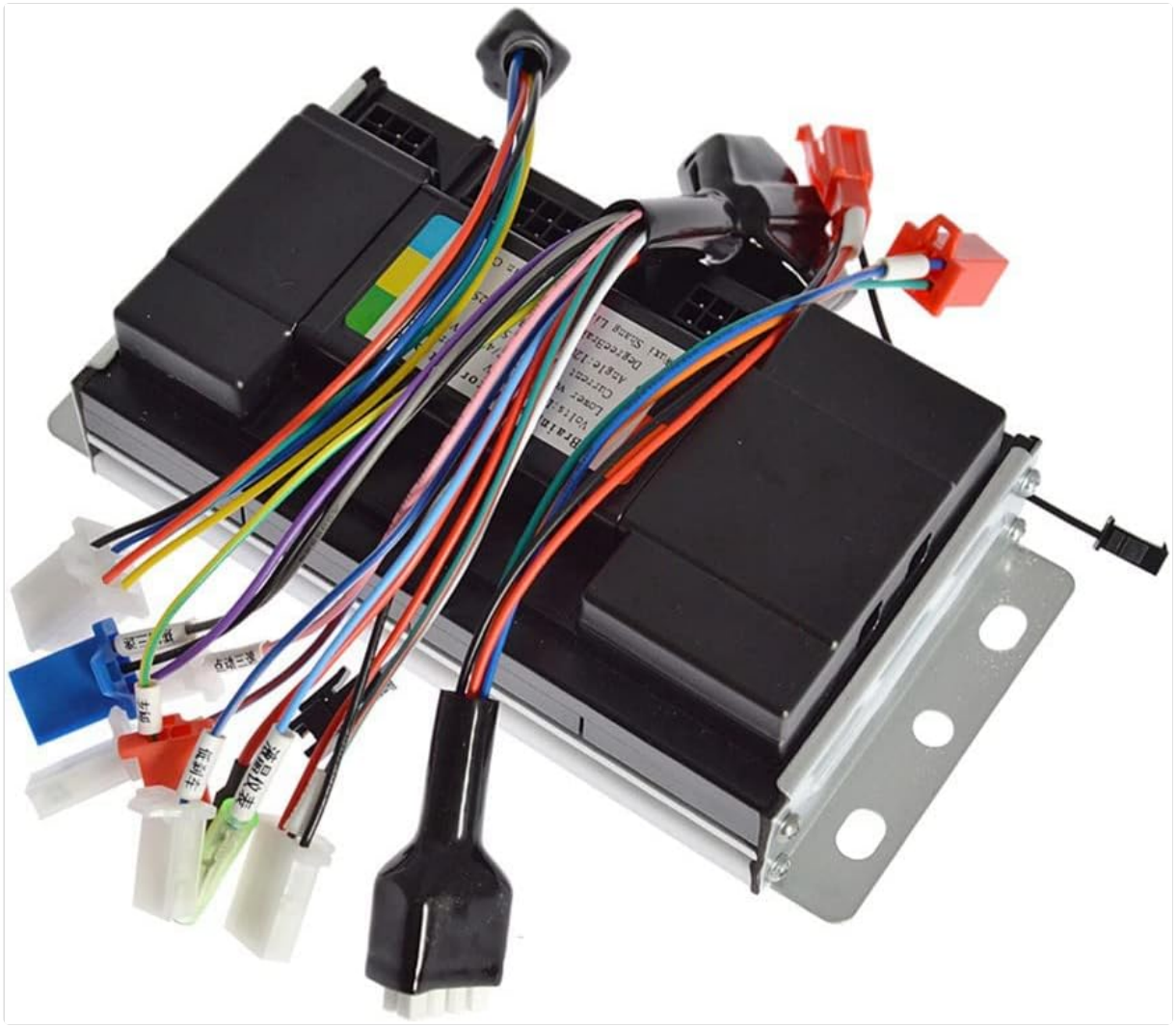


Image: The controller with its complete wiring harness, illustrating the complexity of connections.



Image: Angled view of the controller, highlighting the various wire bundles for different components.

OPERATING INSTRUCTIONS

Once installed, operating the controller is straightforward as it manages the motor's power output based on your input.

- **Power On:** Turn on your electric bike's battery and then the main power switch (if equipped).
- **Throttle Control:** Gently twist the throttle to accelerate. The sine wave technology ensures smooth and quiet motor operation.
- **Brake Operation:** Applying the brakes will typically cut power to the motor, ensuring safe stopping.
- **Voltage Compatibility:** The controller automatically adapts to 48V, 60V, or 72V battery systems. Ensure your battery voltage matches one of these specifications.

MAINTENANCE

Regular maintenance helps prolong the life of your controller and electric bike system.

- **Keep Clean and Dry:** Periodically clean the exterior of the controller with a dry cloth. Ensure it remains free from dirt, dust, and moisture.
- **Inspect Connections:** Regularly check all wire connections for tightness and signs of wear or corrosion. Loose connections can lead to intermittent power or damage.
- **Avoid Overheating:** Ensure the controller has adequate airflow, especially during prolonged use or in hot weather, to prevent overheating.
- **Storage:** When not in use for extended periods, store the electric bike and controller in a cool, dry place.

TROUBLESHOOTING

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

- **No Power to Motor:**
 - Check battery charge level.
 - Verify all power connections from the battery to the controller are secure.
 - Ensure the main power switch (if present) is on.
- **Motor Not Responding to Throttle:**
 - Check the throttle connection to the controller.
 - Ensure brake levers are not engaged, as they often cut motor power.
 - Verify motor phase and Hall sensor connections.
- **Intermittent Power:**
 - Inspect all wiring for loose connections or damaged insulation.
 - Check for signs of overheating on the controller.
- **Unusual Noise from Motor:**
 - Ensure motor phase wires are correctly connected.
 - This could indicate an issue with the motor itself or Hall sensors.

If problems persist after checking these points, it is recommended to consult a professional electric bike technician.

WARRANTY AND SUPPORT

For information regarding warranty coverage, returns, or technical support, please refer to the specific terms and conditions provided by your retailer or the manufacturer, Srutueo. Keep your purchase receipt as proof of purchase.