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> XINMEILAN 60V 2000W Sine Wave Controller Instruction Manual

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Model: 60V 2000W Sine Wave Controller

Brand: XINMEILAN

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your XINMEILAN 60V 2000W Sine Wave Controller. This controller is specifically designed for wide-tire Citycoco electric vehicles and similar electric scooters, offering smooth motor starts, enhanced climbing power, and reduced operational noise for a more comfortable riding experience.

SAFETY INFORMATION

Please read and understand all safety warnings before installing or operating the controller. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always disconnect the vehicle's battery power before performing any installation, maintenance, or wiring adjustments.
- Ensure all electrical connections are secure, correctly polarized, and insulated to prevent short circuits and damage to the controller or vehicle components.
- Installation should be performed by a qualified technician if you are not confident in your electrical wiring abilities.
- Avoid exposing the controller to water, excessive moisture, or extreme temperatures.
- Do not attempt to open, modify, or repair the controller casing. This may void any warranty and could lead to malfunction or injury.

PACKAGE CONTENTS

Upon unpacking, please verify that all items are present and undamaged. If any components are missing or damaged, contact your retailer immediately.

- 1 x XINMEILAN 60V 2000W Sine Wave Controller
- *(Note: Additional wiring harnesses or accessories may be included depending on the specific product kit.)*

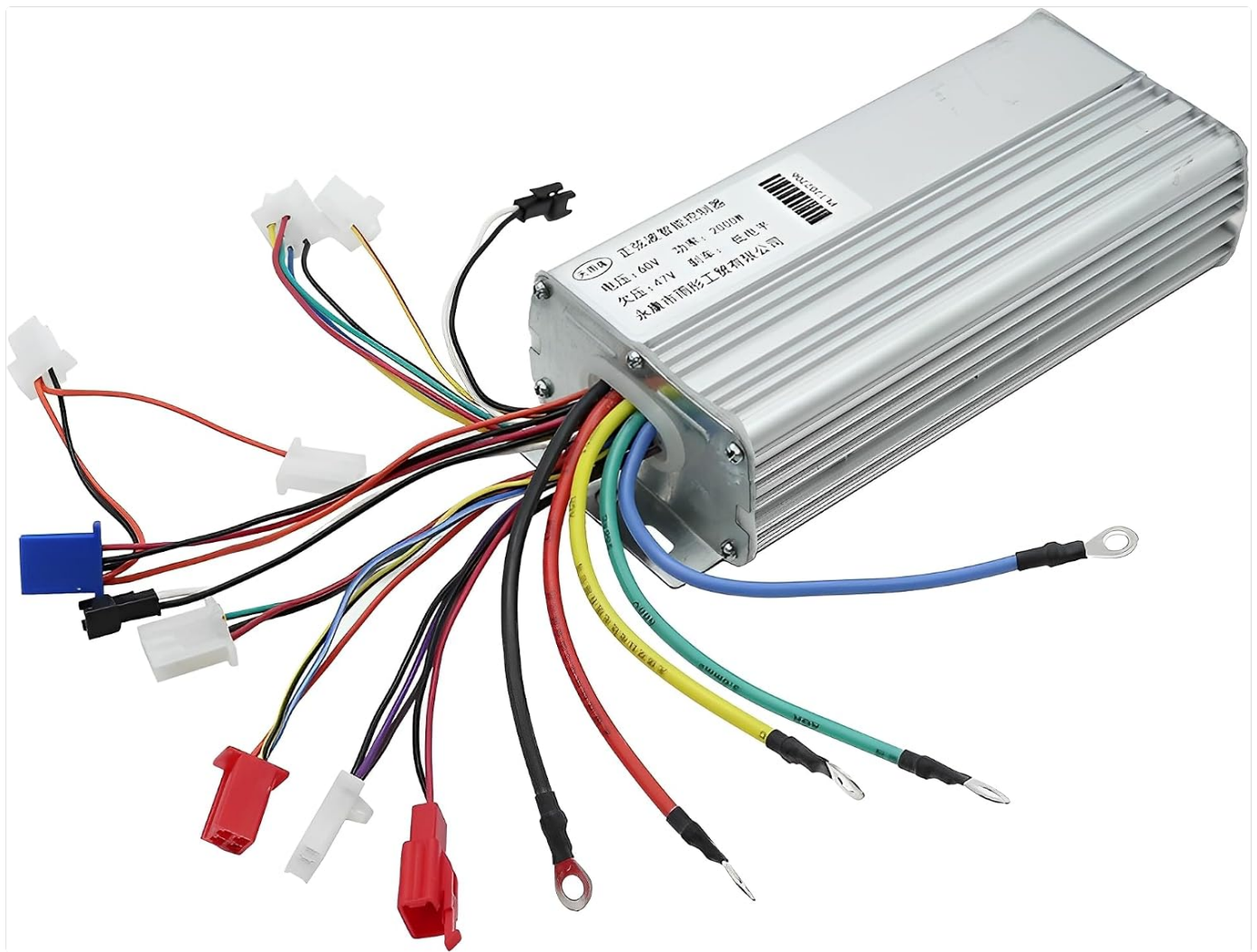


Image: The XINMEILAN 60V 2000W Sine Wave Controller, showcasing its robust aluminum casing and multiple wire connectors for various vehicle components.

PRODUCT OVERVIEW AND FEATURES

The XINMEILAN Sine Wave Controller is engineered to optimize the performance and efficiency of your electric vehicle. Its advanced design ensures a superior riding experience.

Key Features:

- **Voltage Compatibility:** Suitable for 60V and 72V 2000W wide-tire Citycoco electric vehicles.
- **Motor Type:** Specifically designed to drive sine wave motors.
- **Smooth Operation:** Provides smoother motor starts, contributing to a more comfortable cycling experience.
- **Enhanced Performance:** Delivers strong climbing power and significantly reduces motor operational noise, eliminating tire noise.
- **Reliability:** Professional manufacturing ensures stable performance and high reliability for long-term use.

60V 2000W



Image: The XINMEILAN 60V 2000W Sine Wave Controller, clearly indicating its power rating and physical dimensions (185x86x43mm) for installation planning.

SETUP AND INSTALLATION

Proper installation is crucial for the controller's optimal performance and safety. Always refer to your specific vehicle's wiring diagram for detailed connection points. The following steps provide a general guide.

General Installation Steps:

- Disconnect Power:** Before commencing any work, ensure the vehicle's battery is completely disconnected to prevent electrical hazards.
- Locate Mounting Position:** Choose a secure, dry, and well-ventilated location on your vehicle for the controller. Ensure it is protected from direct impact and moisture.
- Mount Controller:** Securely fasten the controller using appropriate screws or brackets. Ensure it is stable and will not vibrate loose during operation.
- Connect Motor Wires:** Connect the three main motor phase wires (typically thick green, yellow, blue) from the controller to the corresponding motor wires. Ensure a tight and secure connection.
- Connect Hall Sensor Wires:** Connect the Hall sensor wires (typically a smaller bundle of five wires: red, black, blue, green, yellow) from the controller to the motor's Hall sensor connector.
- Connect Power Wires:** Connect the main positive (red) and negative (black) power wires from the controller to the

battery terminals. **Ensure correct polarity (+ to +, - to -) to avoid damage.**

7. **Connect Ignition/Key Switch:** Connect the ignition wire (often red or orange) to your vehicle's key switch or power lock.
8. **Connect Throttle:** Connect the throttle wires (typically three wires: red, black, green/blue) to the throttle assembly.
9. **Connect Brake Levers:** Connect the brake lever wires (often two wires per lever) to the controller's brake input. This ensures power cut-off when brakes are applied.
10. **Connect Other Accessories:** Connect any other accessories such as lights, display, or alarm system according to your vehicle's specific wiring diagram.
11. **Double-Check Connections:** Before reconnecting the battery, meticulously verify that all connections are tight, correctly matched, and properly insulated.
12. **Test Functionality:** Reconnect the battery and perform a low-speed test in a safe environment to ensure all functions (throttle, brakes, motor rotation) are working correctly and smoothly.

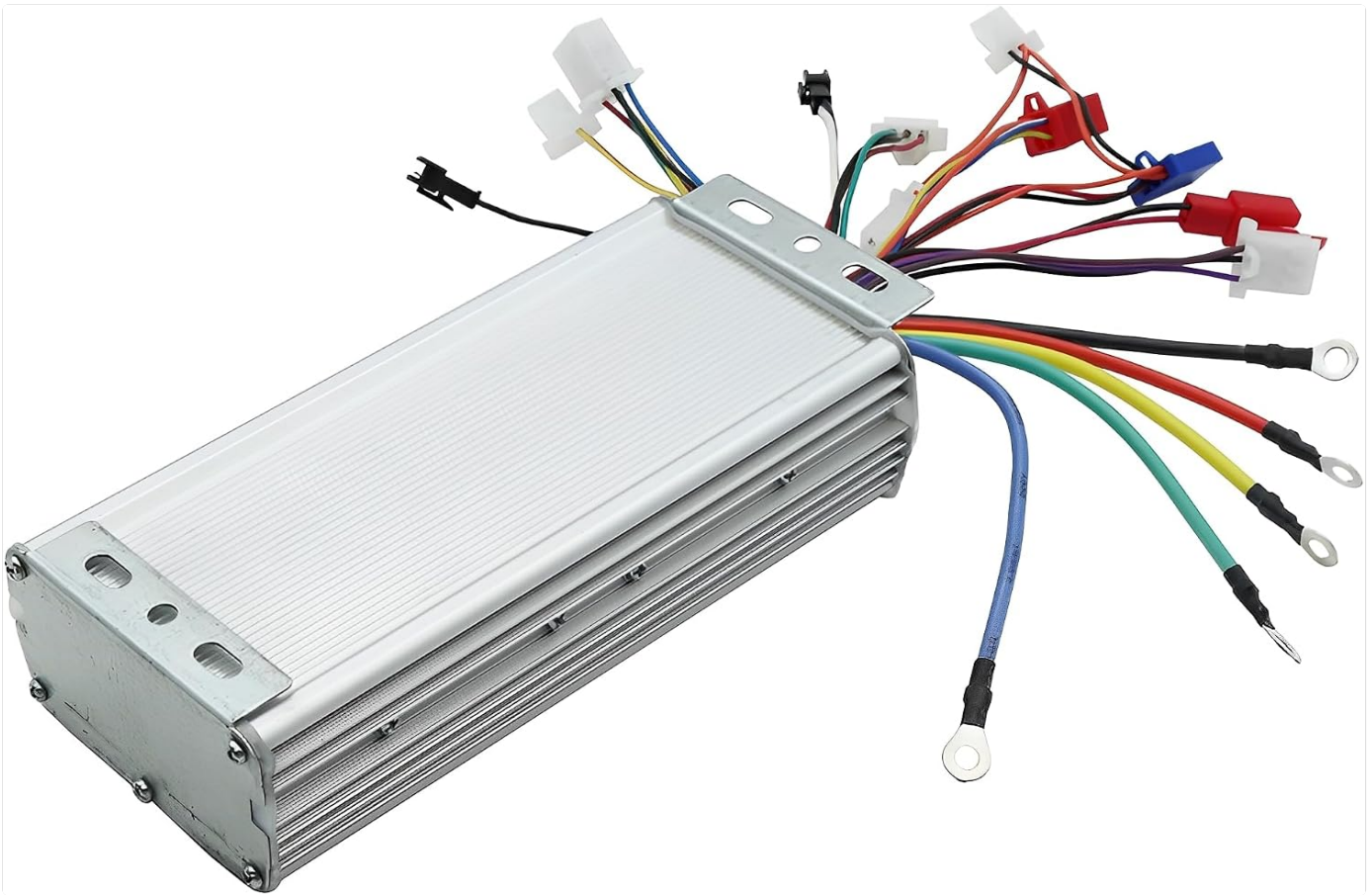


Image: A side view of the XINMEILAN Sine Wave Controller, illustrating its heat sink fins and integrated mounting brackets for secure and efficient installation.

OPERATING INSTRUCTIONS

Once correctly installed, operating the controller is straightforward as it automatically manages motor functions based on your throttle input and other vehicle controls.

Basic Operation:

1. **Power On:** Turn the vehicle's key switch to the "ON" position. The vehicle's display (if equipped) should illuminate.
2. **Throttle Control:** Gently twist the throttle grip to accelerate. The controller will smoothly deliver power to the motor, providing a responsive and quiet ride.
3. **Braking:** Engage the brake levers to slow down or stop. The controller is designed to cut power to the motor when brakes are applied, enhancing safety.

4. **Power Off:** Turn the key switch to the "OFF" position when you have finished riding or when the vehicle is not in use.

Note: The sine wave technology of this controller ensures a quiet and efficient ride, minimizing motor noise and maximizing battery life.

MAINTENANCE

The XINMEILAN Sine Wave Controller is designed for durability and reliability, requiring minimal maintenance to ensure long-term performance.

- **Regular Inspection:** Periodically inspect all wiring connections for tightness, signs of wear, fraying, or corrosion. Address any issues promptly.
- **Cleanliness:** Keep the controller's exterior clean and free from dirt, dust, and moisture. Use a soft, dry cloth for cleaning. Do not use harsh chemicals or abrasive materials.
- **Avoid Overheating:** Ensure the controller has adequate airflow, especially during prolonged use or in hot weather. Do not cover the controller or obstruct its heat fins.
- **Storage:** If the vehicle is to be stored for an extended period, ensure the battery is disconnected to prevent any potential drain or electrical issues.

TROUBLESHOOTING

This section provides solutions to common issues you might encounter. For problems not listed here, please contact technical support.

Problem	Possible Cause	Solution
Motor not running	No power to controller, loose connections, faulty throttle, faulty motor Hall sensors, engaged brake lever.	Check battery connection, ignition switch, throttle wiring, motor Hall sensor connections, and ensure brake levers are not engaged.
Intermittent power or erratic motor behavior	Loose wiring connections, intermittent short circuit, damaged wiring.	Inspect all connections for looseness or damage. Ensure wires are not pinched or frayed.
Motor runs roughly or makes unusual noise	Incorrect motor phase wire connection, damaged motor, or internal controller issue.	Verify motor phase wire connections are correct. If the problem persists after checking connections, consult a qualified technician.

SPECIFICATIONS

Detailed technical specifications for the XINMEILAN 60V 2000W Sine Wave Controller.

Feature	Detail
Brand	XINMEILAN
Model	Sine Wave Controller
Compatibility	60V / 72V 2000W wide-tire Citycoco electric vehicles

Feature	Detail
Motor Type	Sine Wave Motors
Manufacturer Part Number	XML-SHL-108469MK
Exterior	Smooth surface, aluminum casing with heat fins
Net Weight (60V 2000W variant)	Approximately 600g
Dimensions	185mm x 86mm x 43mm (approximate)

WARRANTY AND SUPPORT

Specific warranty information for this product is not provided in the available data. For details regarding warranty coverage, terms, and conditions, please refer to your purchase documentation or contact the seller, XINMEILAN, directly. For technical support, troubleshooting assistance beyond this manual, or inquiries about replacement parts, please reach out to the manufacturer or your point of purchase. Provide your product model number and purchase date when contacting support.

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