Voilamart EBV-48V1500WFB

Voilamart 26" Front Wheel 48V 1500W Electric Bicycle Conversion Kit User Manual

Model: EBV-48V1500WFB

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Voilamart 26" Front Wheel 48V 1500W Electric Bicycle Conversion Kit. Please read this manual thoroughly before beginning installation or operation to ensure safe and efficient use of your e-bike conversion kit.

1. Setup and Installation

Careful installation is crucial for the proper function and safety of your electric bicycle. Ensure you have all components listed in the "What's in the Box" section and any necessary tools before starting.

1.1 Unpacking and Component Identification

Carefully unpack all components and verify against the packing list. Familiarize yourself with each part.



Figure 1: Overview of the Voilamart E-Bike Conversion Kit components, including the front wheel, motor controller, twist throttle, brake handles, PAS system, and wiring accessories.

1.2 Front Wheel Installation

Replace your bicycle's existing front wheel with the Voilamart motorized front wheel. Ensure the wheel is securely fastened and the brake rotor (if applicable) is correctly aligned.



Figure 2: The 26-inch front wheel with integrated hub motor, ready for installation onto a bicycle frame.

Your browser does not support the video tag.

Video 1: Detailed installation guide for the Voilamart Ebike Conversion Kit, demonstrating the process of mounting the front hub motor wheel and connecting components.

1.3 Brake Lever and Throttle Installation

Install the new brake levers and twist throttle onto your handlebars. Ensure they are positioned comfortably and securely. Connect the brake cables to your bicycle's braking system.

1.4 Wiring Connections

Connect the motor, controller, PAS system, brake levers, and throttle according to the wiring diagram. Pay close attention to color-coded connectors to ensure correct polarity and function. Secure all cables with cable ties.

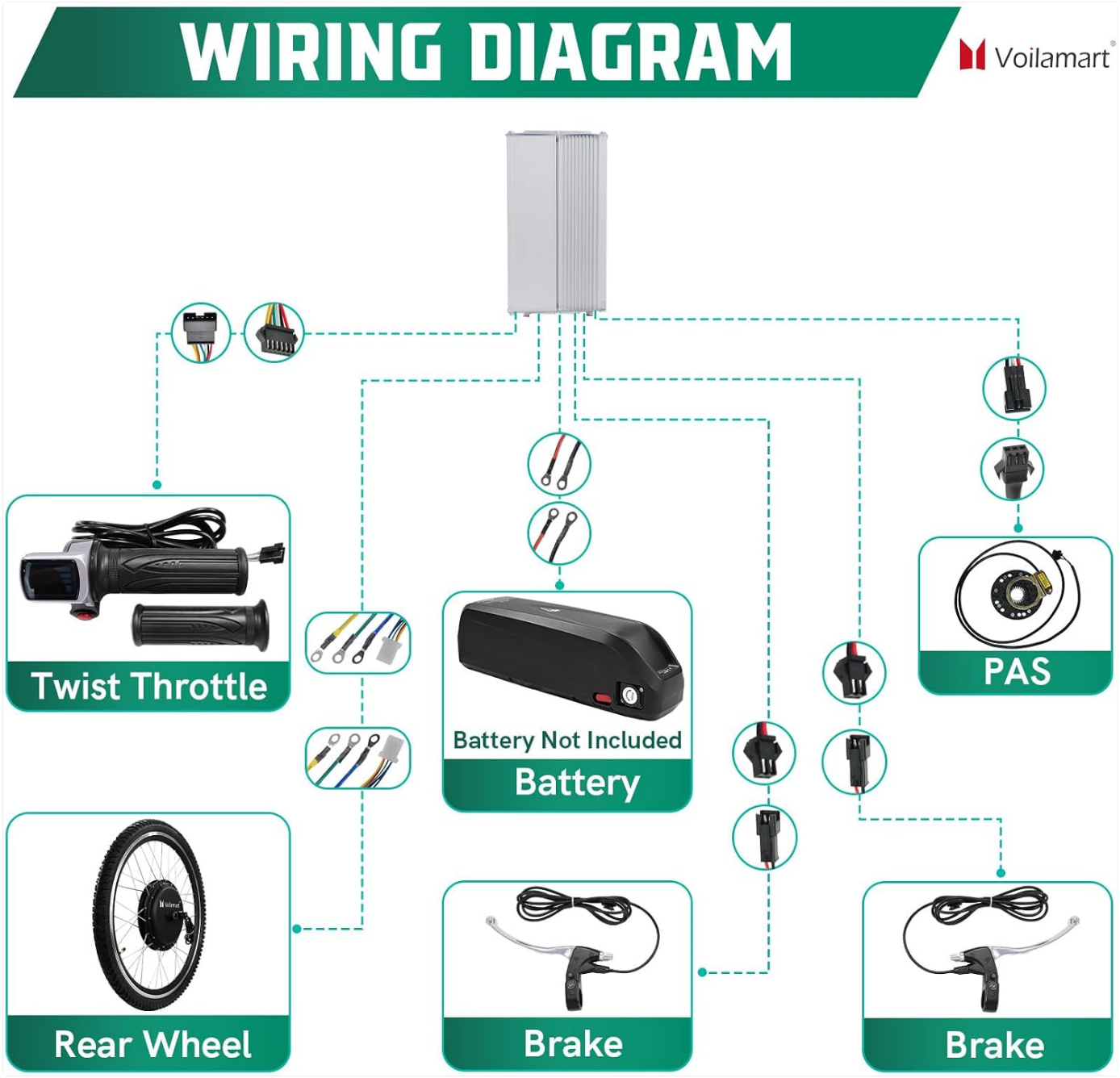


Figure 3: Detailed wiring diagram illustrating the connections between the motor, controller, battery, PAS, throttle, and brake levers.

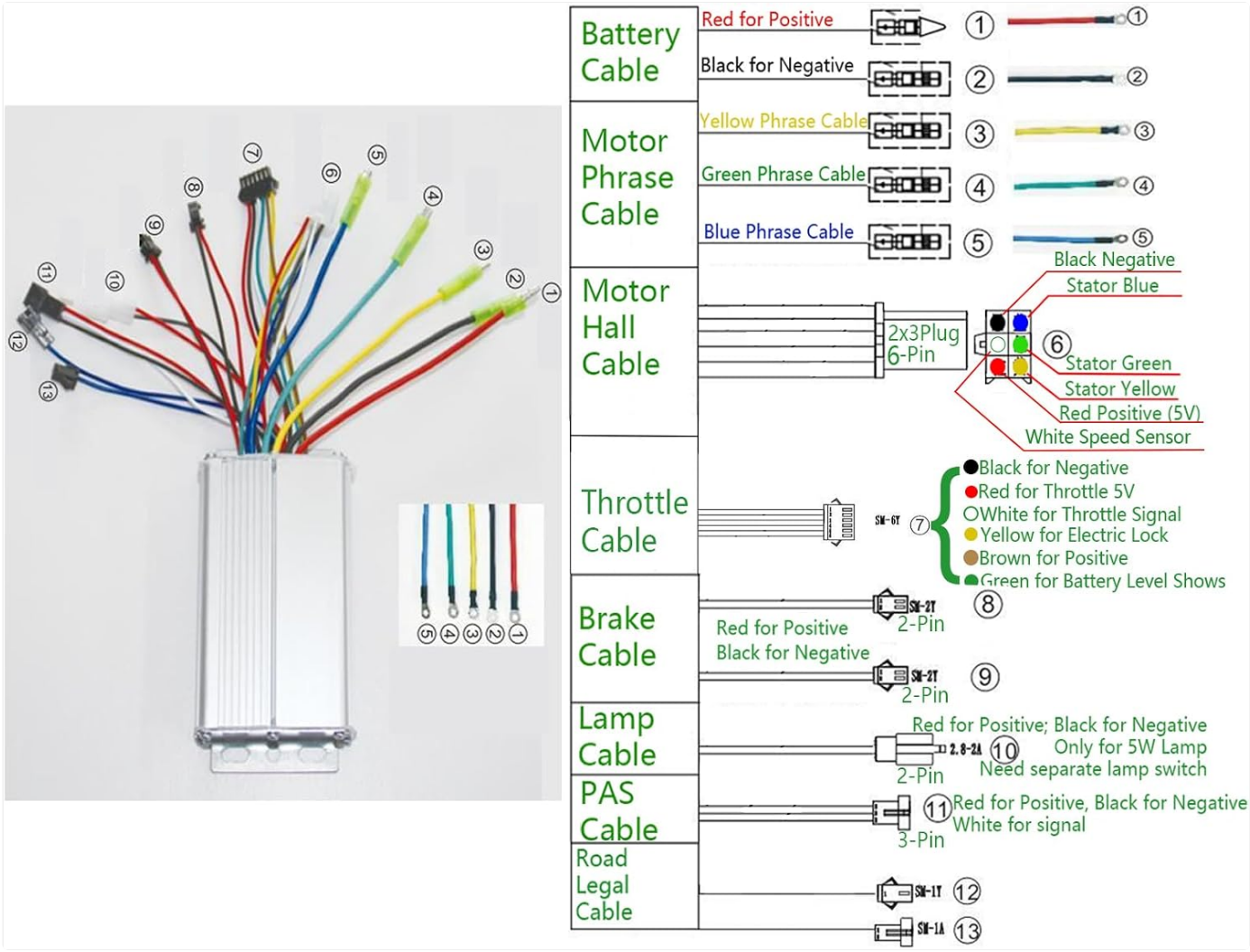


Figure 4: Close-up view of the motor controller and its various color-coded cable connections for different components like battery, motor, throttle, and PAS.

1.5 Battery Connection (Battery Not Included)

Connect your 48V electrokinetic cell battery (minimum 14.5Ah, not included) to the controller. Ensure the power is OFF before making any battery connections. Secure the battery in a suitable location on your bicycle.

2. Operating Instructions

Once installed, your Voilamart E-Bike Conversion Kit offers both pedal-assist and throttle-only modes.

2.1 Powering On/Off

Turn on the battery switch (if applicable) and then the controller. The display on the throttle will illuminate, indicating the system is active.

2.2 Pedal Assistance System (PAS)

The PAS system provides motor assistance as you pedal. The level of assistance can typically be adjusted via the controller or display. This allows for a natural cycling experience with added power.

2.3 Throttle Operation

The twist throttle provides on-demand power, allowing you to accelerate without pedaling. Apply the throttle gently to avoid sudden acceleration. Always be aware of your surroundings and local regulations regarding throttle use.

2.4 Speed and Power Modes

The motor operates at 48V 1500W, capable of speeds up to 34mph (55km/h). By default, the kit is restricted to 750W and 24mph (38km/h) to comply with road-legal pedal e-bike regulations. Consult local laws regarding e-bike power and speed limits.

3. Maintenance

Regular maintenance ensures the longevity and safe operation of your e-bike conversion kit.

3.1 General Checks

- **Tires:** Check tire pressure before each ride.
- **Brakes:** Ensure brake levers are responsive and brake pads are not excessively worn. Adjust as needed.
- **Connections:** Periodically inspect all electrical connections for tightness and signs of wear or damage.
- **Fasteners:** Check all bolts and nuts, especially on the wheel and handlebars, for tightness.

3.2 Controller Care

The dual-mode controller is designed to extend the life of your electric bike by operating under both Hall effect and non-Hall effect conditions. Keep the controller clean and dry, and avoid exposing it to extreme temperatures or moisture.

3.3 Battery Care

Follow the manufacturer's instructions for your specific 48V battery. Typically, this involves charging regularly, avoiding deep discharges, and storing in a cool, dry place.

4. Troubleshooting

If you encounter issues with your e-bike kit, refer to the following common troubleshooting steps:

- **No Power:**
  - Check if the battery is charged and properly connected.
  - Ensure the battery switch and controller are turned on.
  - Inspect all main power cables for damage or loose connections.
- **Motor Not Engaging:**
  - Verify all motor and Hall sensor cables are securely connected as per the wiring diagram.
  - Check if the brake levers are fully released, as some systems cut power when brakes are applied.
  - Ensure the PAS sensor is correctly installed and aligned.
- **Intermittent Power:**
  - Inspect all wiring connections for loose contacts or corrosion.
  - Check for any kinks or damage in the wiring harness.

If the issue persists after performing these checks, please contact customer support.

5. Specifications

Key technical specifications for the Voilamart 26" Front Wheel 48V 1500W Electric Bicycle Conversion Kit:

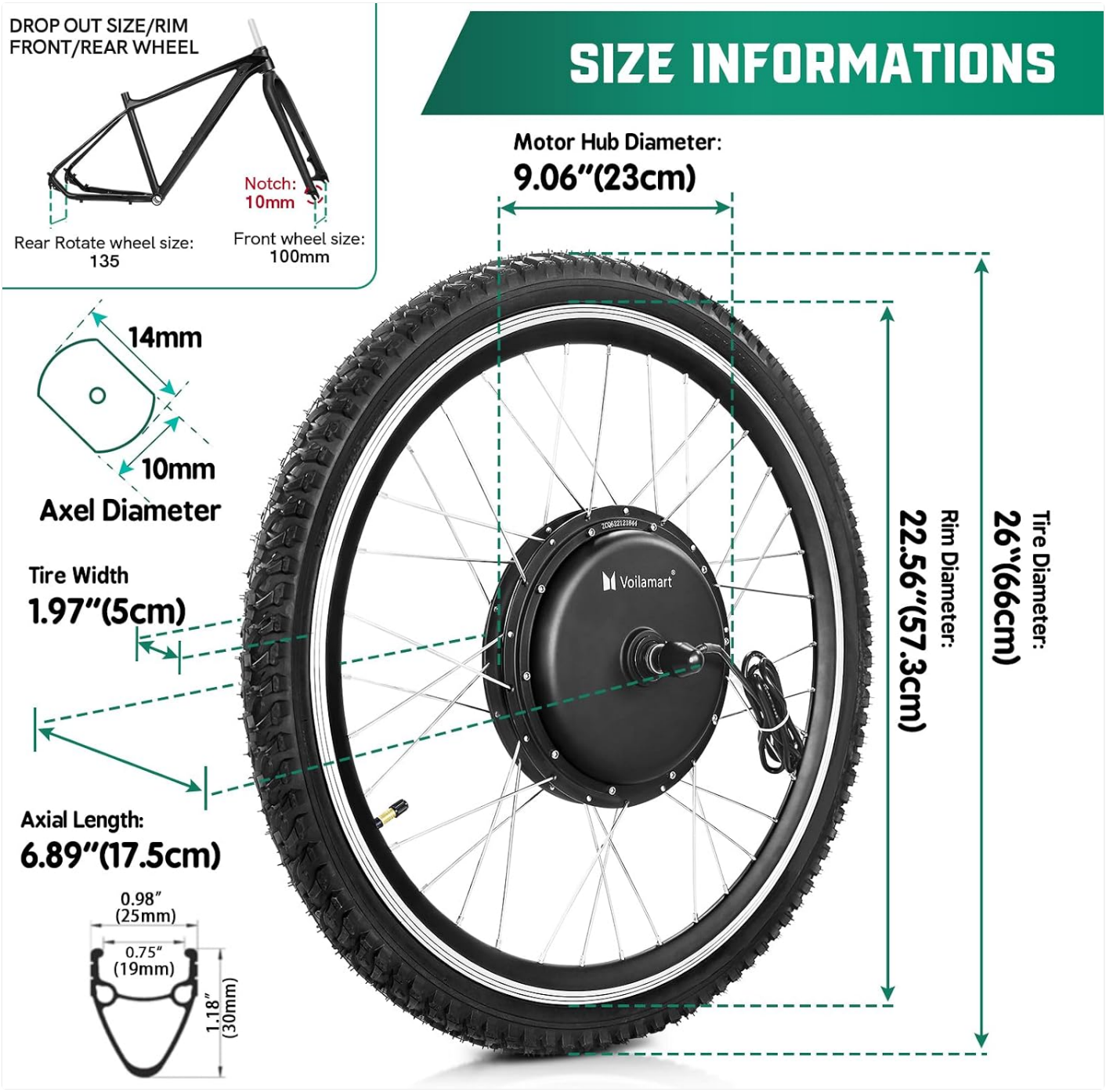


Figure 5: Detailed dimensions and size information for the 26-inch front wheel, including tire diameter, rim diameter, tire width, and axle dimensions.

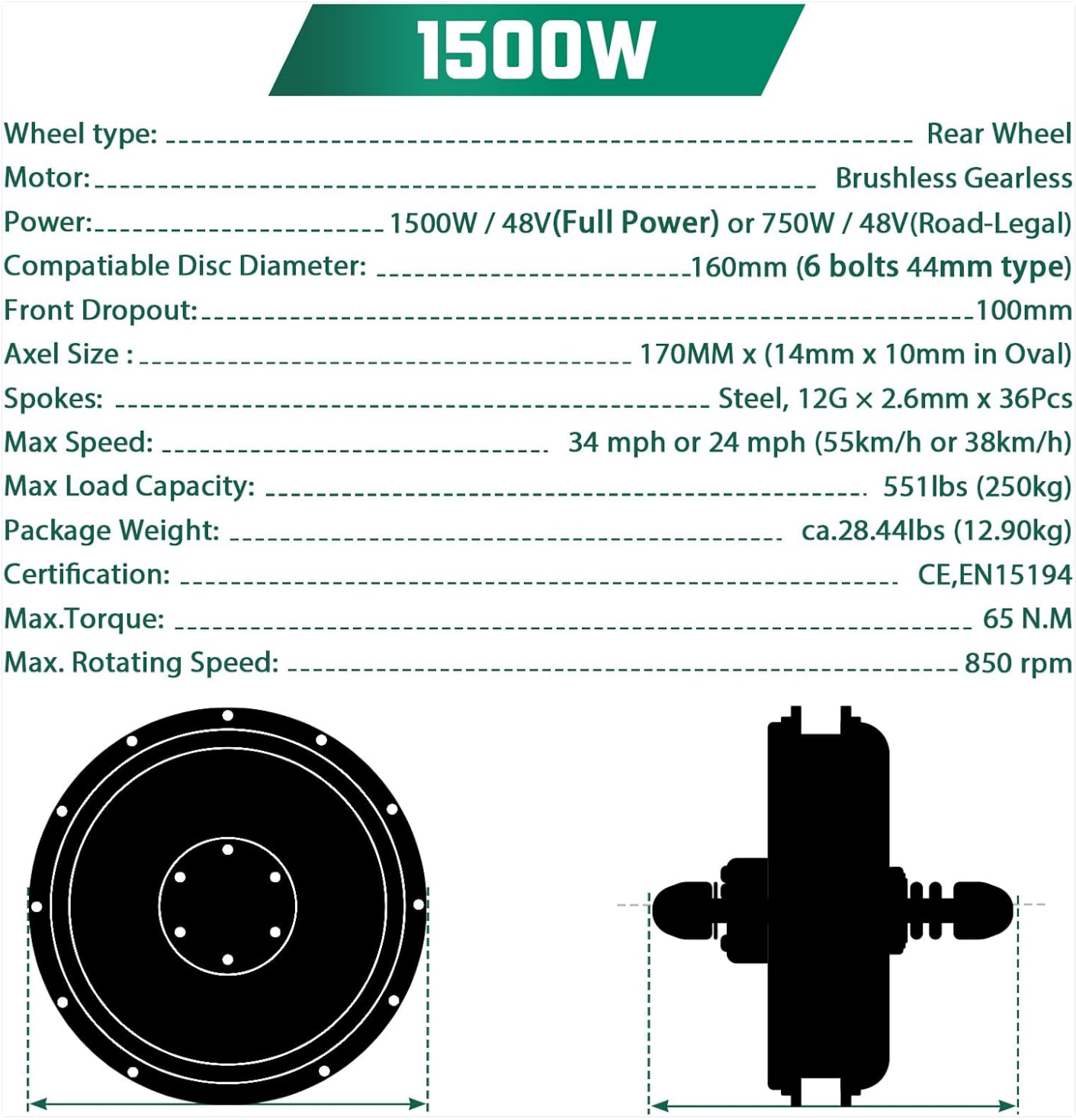


Figure 6: Comprehensive specifications for the 1500W motor, including wheel type, power output, compatible disc diameter, max speed, max load capacity, and certifications.

Product Specifications

Feature	Specification
Bike Type	Electric Bike, Mountain Bike
Brand	Voilamart
Wheel Size	26 Inches
Motor Power	48V 1500W (Full Power) / 750W (Road-Legal)
Max Speed	34 mph (55km/h); Restricted to 24 mph (38km/h) by default

Feature	Specification
Max Load Capacity	551 lbs (250 kg)
Front Dropout	100mm
Brake Style	160-disc-brake (6-bolt, 44mm diagonal hole distance)
Required Battery	48 Volt electrokinetic cell battery, min. 14.5Ah (not included)
Certification	CE, EN15194 approved
Item Weight	12 Kilograms
Material	Aluminum (Wheel)

6. Warranty Information

The Voilamart Electric Bicycle Conversion Kit comes with a **6-month warranty**. This warranty covers manufacturing defects and material faults under normal use. Please retain your proof of purchase for warranty claims. The warranty does not cover damage due to improper installation, misuse, accidents, or unauthorized modifications.

7. Support

For further assistance, technical support, or warranty inquiries, please contact the seller or Voilamart customer service through the platform where you purchased the product. Provide your model number (EBV-48V1500WFB) and a detailed description of your issue to expedite support.

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

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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