Voilamart EBK-26I48V1KWFN

Voilamart 48V 1000W Electric Bicycle Conversion Kit 26-inch Front Wheel User Manual

Model: EBK-26I48V1KWFN

Brand: Voilamart

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Voilamart 48V 1000W Electric Bicycle Conversion Kit, designed for 26-inch front wheels. Please read this manual thoroughly before beginning installation or operation to ensure safe and efficient use.

Product Overview

The Voilamart 48V 1000W Electric Bicycle Conversion Kit transforms a standard pedal bicycle into an electric bicycle. It features a powerful brushless gearless hub motor, a controller, throttle, brake levers, and a pedal assist system (PAS). This kit is compatible with 26-inch bicycles that have a 3.94-inch (100mm) front fork dropout spacing.



Image: All components of the Voilamart 48V 1000W Electric Bicycle Conversion Kit, including the front wheel with hub motor, controller, throttle, brake levers, and wiring.

What's in the Box

The following components are included in your Voilamart Electric Bicycle Conversion Kit:

- Hall motor wheel with tire (26-inch Front Wheel)
- Sine-wave controller
- Throttle and brake levers
- Pedal assist sensor

Note: Battery is not included and must be purchased separately.

Specifications

Feature	Detail
Bike Type	Electric Bike (Conversion Kit)
Motor Type	Brushless Gearless Hub Motor

Feature	Detail
Power	1000W / 48V (or 250W / 48V restricted mode)
Wheel Size	26 Inches
Front Dropout Spacing	100mm (3.94 inches)
Max Speed	28 mph (45 km/h) (1000W mode) / 24 mph (38 km/h) (750W road-legal mode)
Max Load Capacity	330 lbs (150 kg)
Max Torque	42 N.m
Max Rotating Speed	550 rpm
Certification	CE, EN15194 approved
Material	Aluminum (rim)
Model Name	EBK-26I48V1KWFN



Image: Technical specifications and internal view of the 1000W brushless gearless motor.

Safety Information

Always wear a helmet when riding an electric bicycle. Ensure all connections are secure and waterproof. Do not operate the kit if any components are damaged. Always check local regulations regarding electric bicycle power and speed limits. Disconnect the battery before performing any maintenance or adjustments.

Setup and Installation

1. Prepare the Front Wheel

Remove your existing front wheel. Install the brake disc onto the hub motor wheel if not already pre-installed. Ensure the tire and inner tube are properly seated on the rim.



Image: Size information for the 26-inch front wheel, including front dropout spacing (100mm) and tire dimensions.

2. Install the Front Wheel

Carefully place the new hub motor front wheel into the bicycle's front fork. Ensure the motor axle is properly seated in the dropouts and secure it with the provided nuts.

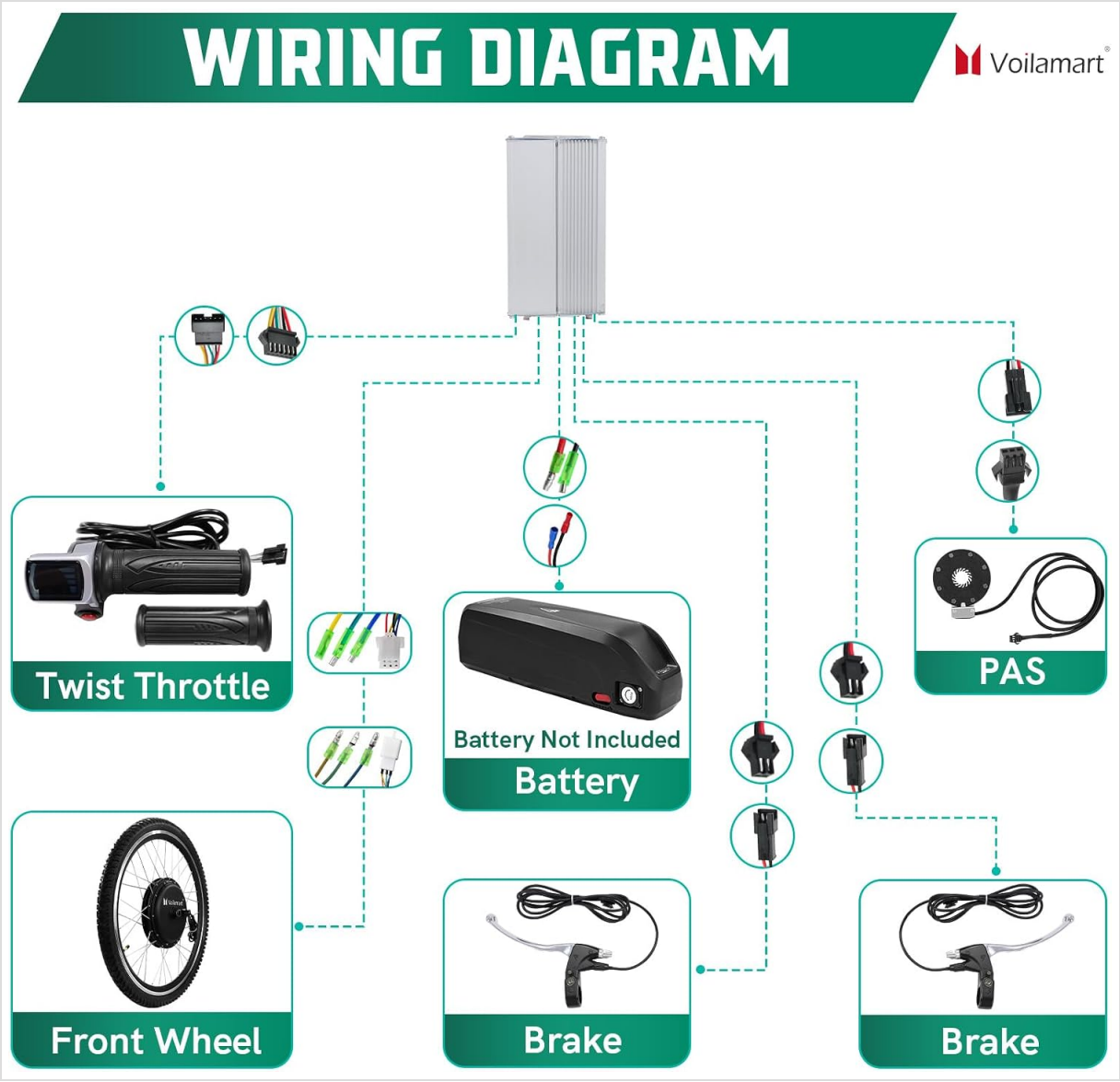


Image: An example of how the various accessories, including the front wheel, controller, and throttle, are installed on a bicycle.

3. Install Throttle and Brake Levers

Remove existing grips and brake levers from the handlebars. Install the new throttle and brake levers. Connect the brake levers to your bicycle's brake cables.

4. Install Pedal Assist Sensor (PAS)

Install the PAS sensor on the pedal crank arm. Ensure it is correctly aligned to detect pedal rotation.

5. Wiring Connections

Connect all components to the controller according to the wiring diagram. Ensure all connections are secure and waterproof.

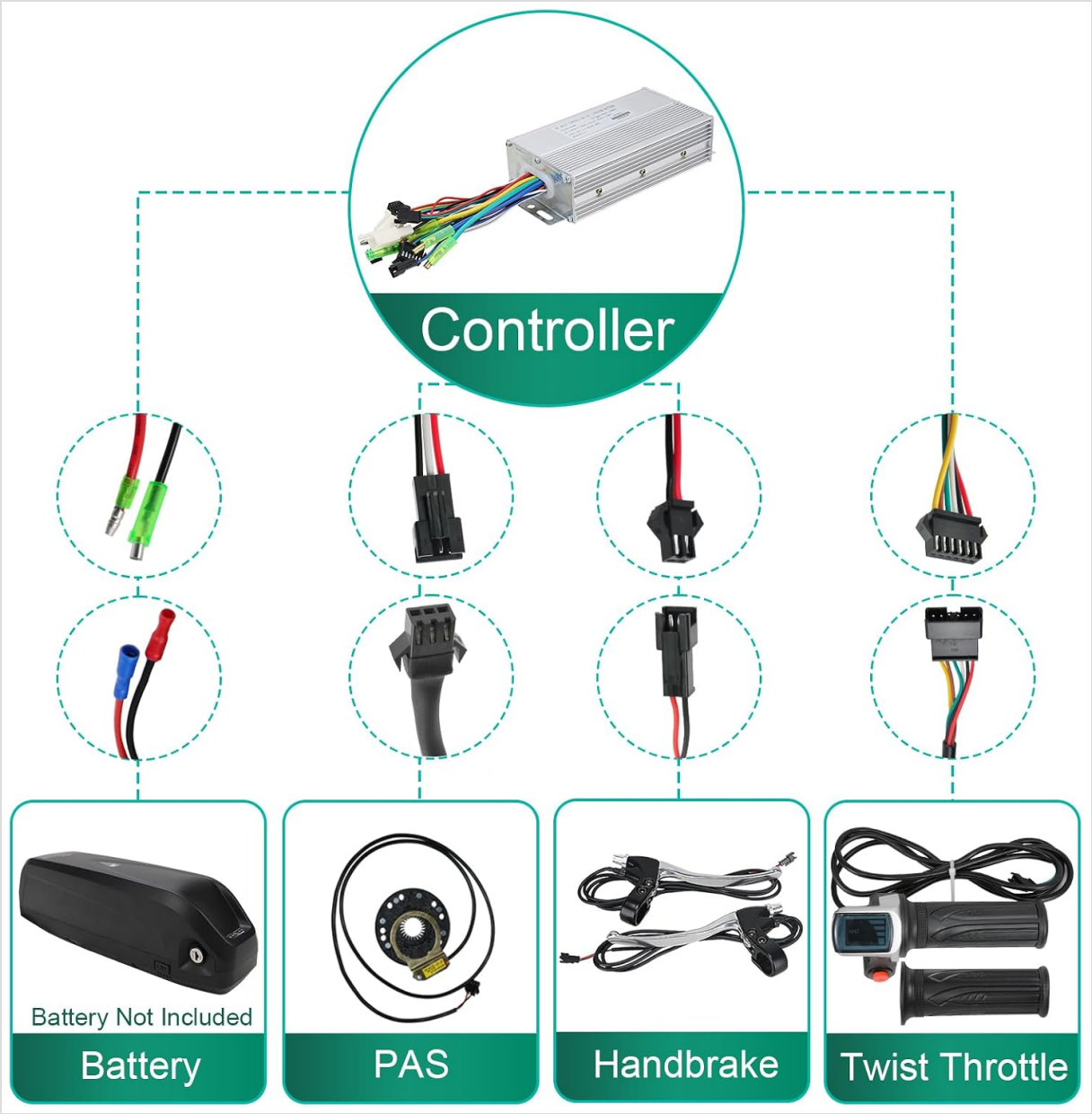


Image: A detailed wiring diagram illustrating how to connect the front wheel, battery, throttle, brake, and PAS to the controller.

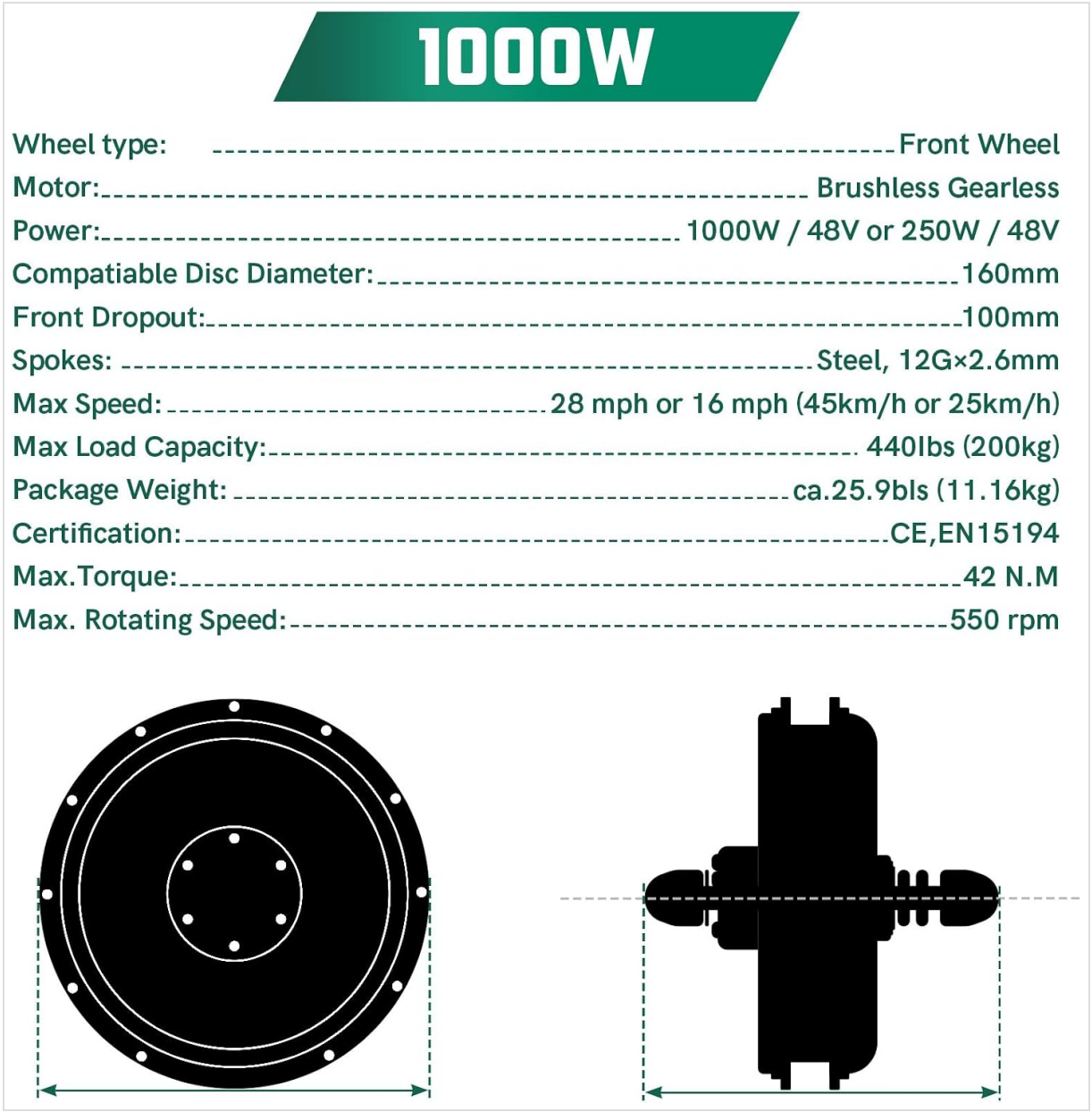


Image: Close-up view of the controller and its various color-coded connectors for different components like the battery, PAS, handbrake, and twist throttle.

6. Battery Installation (Battery not included)

Securely mount your 48V battery (not included) to the bicycle frame, typically on a rear rack or within the main triangle. Connect the battery to the controller.

Installation Video

For a visual guide on the installation process, please refer to the official installation video below.

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Video: Official Voilamart Ebike Conversion Kit (Front Hub Motor Type) installation guide. This video demonstrates the step-by-step process of assembling the kit onto a bicycle.

Operating Instructions

Power On/Off

Turn on the battery power switch. The display on the throttle will illuminate. To turn off, switch off the

battery.

Riding Modes

- **Throttle Mode:** Use the twist throttle to control speed directly.
- **Pedal Assist System (PAS) Mode:** Pedal normally, and the motor will provide assistance based on the selected assist level.
- **Manual Mode:** Ride the bicycle without motor assistance, like a traditional bike.

Speed and Power Settings

The kit is restricted to 750W and 24mph (38km/h) by default for road-legal use. To switch to 1000W full power output for off-road mode (28mph / 45km/h), disconnect the blue cable from the controller. Reconnect the blue cable to return to road-legal mode.

Display Functions

The integrated power display on the throttle shows current speed, battery level, and other operational data.



Image: Close-up of the twist throttle with an integrated power display, indicating battery charge and current speed.

Maintenance

- **Regular Checks:** Periodically inspect all electrical connections for tightness and corrosion.
- **Tire Pressure:** Maintain correct tire pressure as specified on the tire sidewall.
- **Brakes:** Regularly check brake function and adjust or replace brake pads as needed.
- **Cleaning:** Clean the motor and controller with a damp cloth. Avoid high-pressure washing directly on electrical components.
- **Battery Care:** Follow the battery manufacturer's instructions for charging and storage.

For detailed maintenance procedures, consult a professional bicycle mechanic.

Troubleshooting

Problem	Possible Cause	Solution
Motor not engaging	Loose electrical connection, low battery, PAS sensor misalignment	Check all wiring, charge battery, adjust PAS sensor
Loss of power	Low battery, motor overheating, controller issue	Charge battery, allow motor to cool, contact support if persistent
Brakes not working effectively	Worn brake pads, loose brake cables	Inspect and replace brake pads, adjust brake cable tension
Display not working	Loose connection to display, damaged display cable	Check display cable connection, contact support for replacement

If you encounter issues not listed here or if solutions do not resolve the problem, please contact Voilamart customer service.

Warranty and Support

This Voilamart Electric Bicycle Conversion Kit comes with a 6-month warranty from Voilamart. For technical support, warranty claims, or further assistance, please contact Voilamart customer service. Refer to the contact information provided with your purchase or visit the official Voilamart website.