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> User Manual: 36V 48V 1000W 38A Electric Bike Brushless Controller Kit

POENVFPO POENVFPO5nxt06eby4

User Manual: 36V 48V 1000W 38A Electric Bike Brushless Controller Kit

Model: POENVFPO5nxt06eby4 | Brand: POENVFPO

1. PRODUCT OVERVIEW

This kit provides a comprehensive solution for electric bike motor control, featuring a brushless motor controller, a 160PDD display panel, and a brake lever. Designed for 36V and 48V systems with a 1000W motor and 38A current, it ensures efficient and smooth operation of your electric bicycle.

1.1. Key Components

- **Brushless Motor Controller:** Manages motor speed and power efficiently.
- **160PDD Display Panel:** Provides real-time information about your e-bike's status.
- **Brake Lever:** Integrates with the system for safe and responsive braking.

1.2. Product Features

- **ABS Panel:** The display panel is constructed from durable ABS material, making it lightweight, sturdy, and waterproof. This design provides long-lasting protection for the internal circuitry.
- **Aluminum Alloy Housing:** The controller's housing features a grooved design, which significantly enhances heat dissipation and offers robust protection against thermal overload, ensuring stable performance.
- **Quiet and Efficient Running:** The brushless motor controller operates silently and responds sensitively to the electric bike's status, contributing to a safe and comfortable riding experience.
- **Easy-to-read Display:** The electric bike panel offers clear and concise monitoring of the bike's operational status, thereby improving the overall riding experience.
- **Smooth and Sensitive Control:** The motor controller ensures consistent speed and precise control, facilitating a smooth riding experience, including responsive braking and accurate direction changes.

2. PACKAGE CONTENTS

Upon opening the package, please verify that all components are present and undamaged:

- 1 x Electric Bike Brushless Motor Controller
- 1 x 160PDD Display Panel with Integrated Brake Lever

- 1 x User Manual (this document)



Figure 2.1: Overview of the Electric Bike Brushless Controller Kit components. This image displays the rectangular silver controller unit on the right, with numerous colored wires extending from one end. To the left, the black display panel with an integrated brake lever is shown, connected by a long black cable. Additional smaller connecting cables are also visible.

3. SETUP AND INSTALLATION

Installation of the electric bike controller kit requires basic electrical knowledge and careful attention to wiring. It is recommended to consult a professional if you are unsure about any steps.

1. **Safety First:** Before beginning installation, ensure your electric bike's battery is disconnected to prevent accidental power surges or short circuits.
2. **Mount the Controller:** Securely mount the brushless motor controller to your bike frame in a location that is protected from water and physical damage, yet allows for adequate airflow for heat dissipation. The aluminum alloy housing is designed for this purpose.
3. **Install Display Panel and Brake Lever:** Attach the 160PDD display panel and integrated brake lever to your handlebars. Ensure the brake lever is positioned comfortably for easy access.
4. **Connect Motor Wires:** Connect the main power wires from the controller to your electric bike's motor. Pay close attention to the color coding and connector types to ensure correct polarity and connection.
5. **Connect Battery Wires:** Connect the controller's battery input wires to your electric bike's battery. Double-check positive and negative terminals.
6. **Connect Display Panel and Other Accessories:** Connect the cable from the 160PDD display panel to the corresponding port on the controller. Connect any other accessories such as throttle, pedal assist sensor (PAS), or lights, if applicable, following the wiring diagram provided with your e-bike or controller.

7. **Secure Wiring:** Use zip ties or cable management wraps to neatly secure all wires, preventing them from snagging or interfering with moving parts.
8. **Initial Power-Up:** Reconnect the battery. Power on the system and check the display panel for any error codes or unusual behavior. Test the throttle, brakes, and other functions at a low speed in a safe environment.



Figure 3.1: Detailed view of the controller's wiring harness. This image highlights the numerous color-coded wires and various connector types, which are essential for connecting the controller to the motor, battery, display, and other e-bike components.

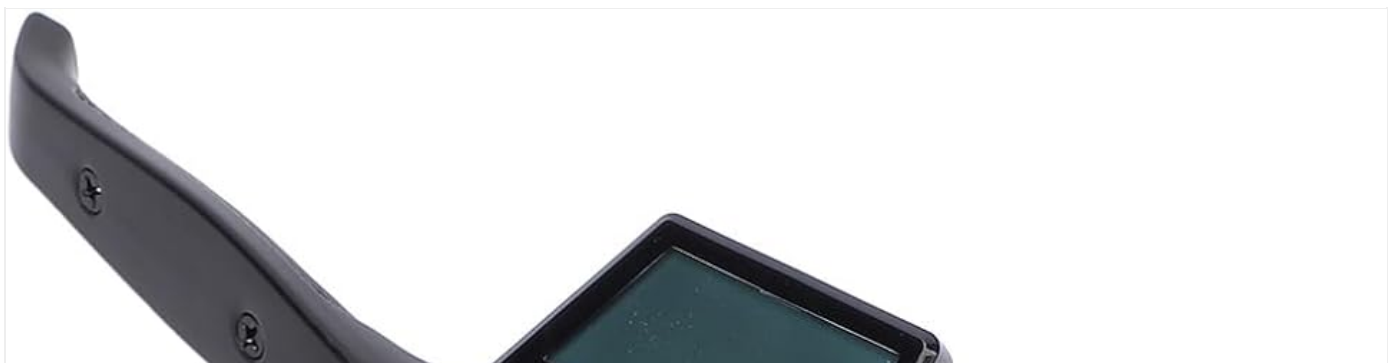




Figure 3.2: Close-up of the 160PDD display panel and brake lever. This image shows the ergonomic design of the brake lever with the integrated display screen, which provides real-time operational data to the rider. Control buttons for adjusting settings are also visible.

4. OPERATING INSTRUCTIONS

Once installed, the 160PDD display panel allows for easy monitoring and control of your electric bike's system.

- **Power On/Off:** Press and hold the power button on the display panel to turn the system on or off.
- **Display Information:** The display will show various parameters such as current speed, battery level, assist level, trip distance, and total mileage. Refer to the specific display manual (if separate) for detailed icon explanations.
- **Assist Level Adjustment:** Use the '+' and '-' buttons on the display panel to cycle through different levels of pedal assist, adjusting the motor's power output to your preference.
- **Braking:** The integrated brake lever provides sensitive and precise control. Engaging the brake lever will cut power to the motor, ensuring safe stopping.
- **Smooth Control:** The controller ensures steady speed and precise control, providing a smooth riding experience.



Display panel is made of ABS material.
Good toughness and water resistant performance.



Figure 4.1: The 160PDD display panel in use on an electric bike. This image shows the display panel attached to the handlebars, providing the rider with essential information during operation. The background features a cyclist on a road, illustrating the product's application.

5. MAINTENANCE

Proper maintenance will extend the lifespan and ensure optimal performance of your electric bike controller kit.

- **Keep Clean:** Regularly wipe down the controller and display panel with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.
- **Check Connections:** Periodically inspect all electrical connections for tightness and corrosion. Loose connections can lead to intermittent operation or damage.

- **Protect from Water:** While the display panel is waterproof, avoid submerging the components. If riding in heavy rain, ensure the controller is adequately protected.
- **Heat Dissipation:** Ensure the controller's aluminum alloy housing remains clear of obstructions to allow for proper heat dissipation.
- **Storage:** When not in use for extended periods, store the electric bike in a dry, temperate environment.

6. TROUBLESHOOTING

If you encounter issues with your electric bike controller kit, consider the following common troubleshooting steps:

- **No Power to Display:**
 - Check battery connection and charge level.
 - Verify all power cables from the battery to the controller and from the controller to the display are securely connected.
- **Motor Not Responding:**
 - Ensure the motor phase wires and Hall sensor wires are correctly connected to the controller.
 - Check if the throttle or pedal assist sensor (PAS) is functioning correctly.
 - Look for any error codes on the display panel and consult the display's specific manual for their meaning.
- **Intermittent Operation:**
 - Inspect all wiring for loose connections, frayed wires, or signs of corrosion.
 - Ensure the controller is not overheating.
- **Brakes Not Cutting Power:**
 - Verify the brake lever's cut-off sensor wire is properly connected to the controller.
 - Ensure the brake lever mechanism is not stuck.

If these steps do not resolve the issue, please contact customer support for further assistance.

7. SPECIFICATIONS

Feature	Detail
Brand Name	POENVFPO
Model Name	POENVFPO5nxt06eby4
Manufacturer	POENVFPO
Part Number	POENVFPO5nxt06eby4
Voltage Compatibility	36V / 48V
Rated Power	1000W
Rated Current	38A
Controller Housing Material	Aluminum Alloy
Display Panel Material	ABS

Feature	Detail
Package Dimensions (L x W x H)	7.09 x 4.72 x 3.94 inches
Package Weight	605 Grams

8. WARRANTY AND SUPPORT

For information regarding product warranty, returns, or technical support, please refer to the purchase documentation or contact the manufacturer directly. The manufacturer's contact details can typically be found on their official website or through the retailer where the product was purchased.

Manufacturer: POENVFPO

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