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> Topyond 25a 36v 48v 750w Electric Bike Brushless Controller Kit with S800 Display Screen Ebike Controller, Suitable for JN25A Motor, Ebike Conversion Kit Ideal for Lithium Battery Conversion

Topyond Topyond093wuygzf8

Topyond Electric Bike Brushless Controller Kit User Manual

Model: Topyond093wuygzf8

1. INTRODUCTION

Thank you for choosing the Topyond 25A 36V/48V 750W Electric Bike Brushless Controller Kit with S800 Display Screen. This kit is designed to convert standard bicycles into electric bikes, enhancing your riding experience with reliable power and control. This manual provides essential information for the proper setup, operation, and maintenance of your new e-bike conversion kit. Please read it thoroughly before installation and use.

The complete kit includes:

- JN Controller
- S800 Display
- Thumb Throttle
- Assist Sensor Wiring
- Assist Sensor Disk

2. PRODUCT OVERVIEW

The Topyond Electric Bike Brushless Controller Kit is comprised of several key components working together to provide efficient electric assistance for your bicycle.

2.1 Kit Components



Figure 2.1: Overview of all components included in the Topyond Electric Bike Brushless Controller Kit.

This image displays all the essential parts of the Topyond e-bike conversion kit, including the main controller unit, the S800 display, the thumb throttle, and various wiring harnesses and sensors.

2.2 Controller Unit

The controller is the central processing unit of the e-bike system. It manages power delivery to the motor based on input from the throttle and pedal assist sensor.

- **Material:** Aluminum housing with grooved design.
- **Function:** Ensures optimal heat dissipation, preventing overheating and protecting internal circuits.
- **Voltage Compatibility:** Supports 36V and 48V systems.



Figure 2.2: Controller unit highlighting its thermal design.

This image illustrates the robust design of the controller, emphasizing its aluminum alloy construction and grooved surface, which are crucial for effective heat dissipation and protecting the internal electronics from thermal overload.

2.3 S800 Display Screen

The S800 display provides real-time information about your e-bike's status and allows for control over various functions.

- **Material:** Durable ABS material.
- **Features:** Excellent waterproof performance, protecting internal circuits.
- **Displayed Data:** Power button status, light switch status, battery level, and power mode (Low, Med, High).



Figure 2.3: Detailed view of the S800 display panel.

This close-up shows the S800 display's interface, including the ON/OFF, LIGHT, and MODE buttons, along with indicators for battery level and the selected power assist mode (Low, Medium, High).

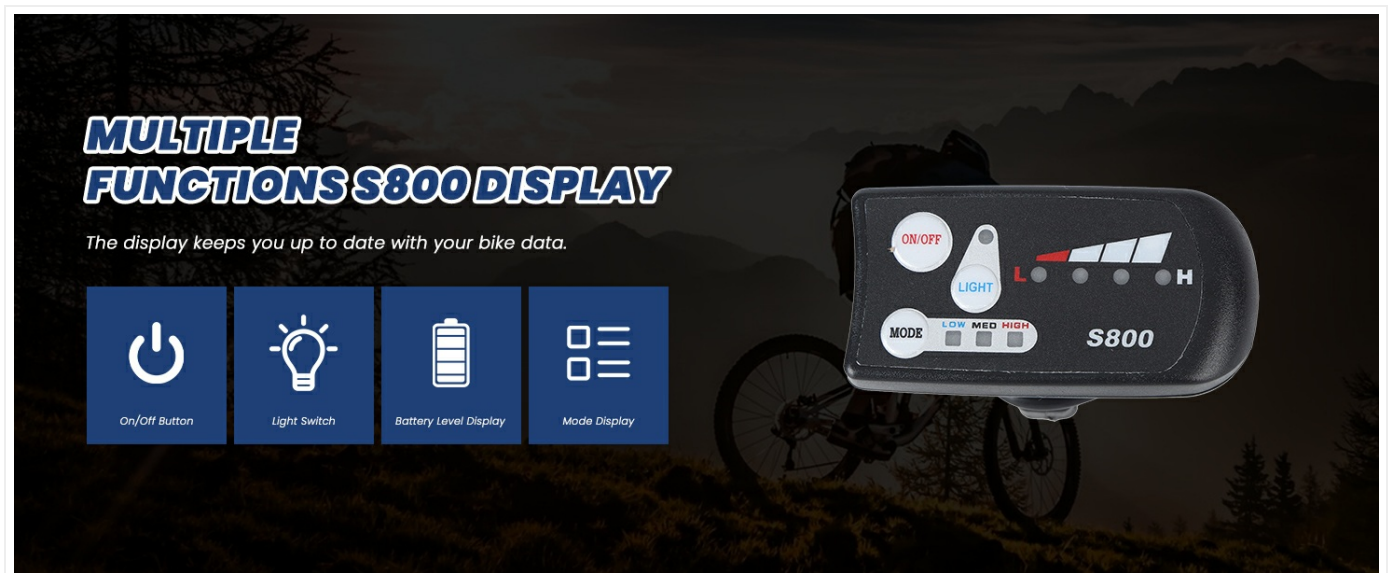


Figure 2.4: Functional overview of the S800 display.

This graphic highlights the various functions of the S800 display's buttons and indicators, including the On/Off button, light switch, battery level indicator, and mode selection for power assist, which collectively provide comprehensive control and monitoring of your e-bike.

3. SETUP AND INSTALLATION

Proper installation is crucial for the safe and effective operation of your e-bike conversion kit. Ensure your bicycle is stable and powered off before beginning installation.

3.1 Wiring Connections

The kit includes various cables for connecting the controller to the display, throttle, motor, and other peripherals. Pay close attention to the connector types to ensure correct pairing.



Figure 3.1: General wiring diagram for the controller.

This diagram illustrates the main connection points for the controller, including inputs for the power-off brake handles (sensing), the S800 display, and the dial handle (throttle). Ensure all connections are secure and correctly aligned.



Figure 3.2: Detailed wiring for main components.

This image provides a more detailed view of the wiring, showing connections for the battery power (x2), light (2-pin), Pedal Assist Sensor (PAS, 3-pin), a 1-to-4 splitter (8-pin), and the motor (9-pin). Match the pin configurations carefully during installation.

Important Note on Brake Levers: The brake cut-off cables are designed for specific brake lever types. If your existing brake levers are incompatible, you may need to acquire compatible brake levers or consult with a professional for alternative solutions.

3.2 Component Mounting

- **Controller:** Mount the controller in a secure location on your bike, ensuring it is protected from direct impact and excessive moisture. The grooved design aids in heat dissipation, so ensure adequate airflow around the unit.
- **S800 Display:** Mount the S800 display on your handlebars in a position that is easily visible and accessible while riding. The display is designed to fit standard handlebar diameters.
- **Thumb Throttle:** Install the thumb throttle on the handlebars in a comfortable position for easy operation.
- **Assist Sensor:** Install the assist sensor disk and wiring near the pedal crank, ensuring proper alignment for accurate pedal assist detection.



Figure 3.3: Dimensions for mounting reference.

This image provides the physical dimensions of the S800 display (80mm x 40mm) and the controller (120mm x 50mm x 30mm), along with the display's mounting diameter (22.2mm), which are useful for planning installation locations.

4. OPERATING INSTRUCTIONS

Once installed, operating your Topyond e-bike kit is straightforward using the S800 display.

4.1 S800 Display Functions

- **ON/OFF Button:** Press this button to power the e-bike system on or off.

- **LIGHT Button:** Press this button to toggle the e-bike's lights on or off. Note that the controller has one dedicated light connector.
- **MODE Button:** Use this button to cycle through the power assist modes: LOW, MED (Medium), and HIGH. These modes adjust the power output for both pedal assist and throttle.
- **Battery Level Indicator:** The display shows the current battery charge level, allowing you to monitor your remaining power.

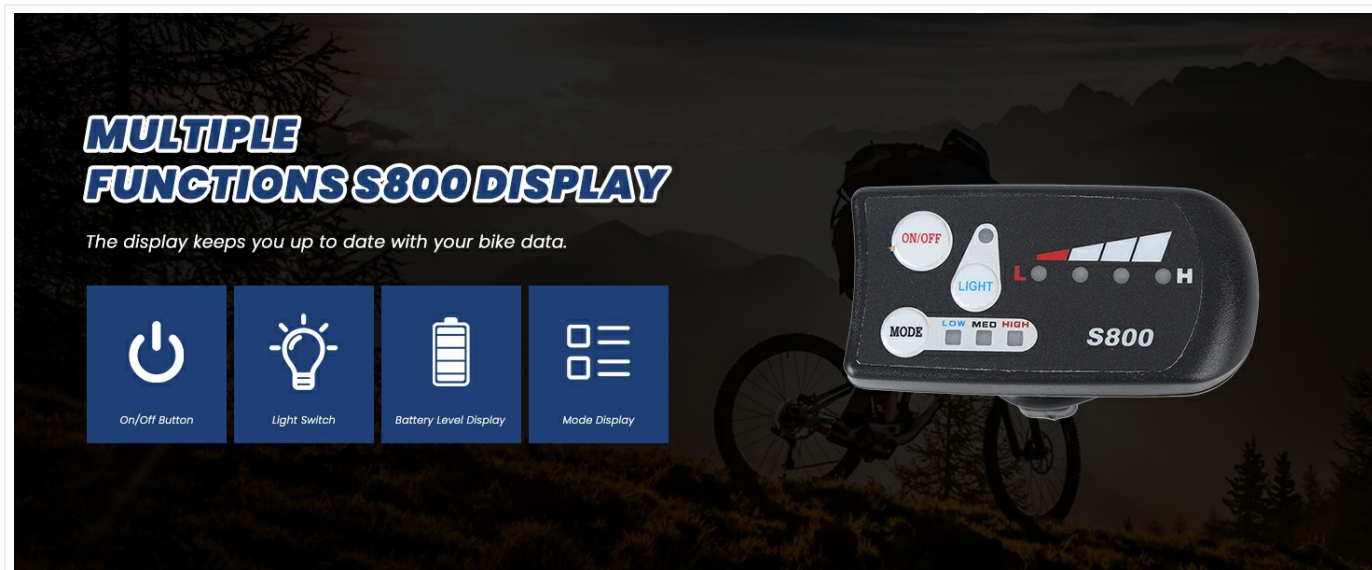


Figure 4.1: S800 display interface and controls.

This graphic visually explains the functions of the S800 display's buttons and indicators, including the On/Off button, light switch, battery level display, and mode selection for power assist.

4.2 Riding with the Kit

- **Throttle Control:** The thumb throttle provides instant power on demand. Apply gentle pressure to accelerate.
- **Pedal Assist:** The assist sensor detects your pedaling motion and provides motor assistance based on the selected power mode.
- **Combined Operation:** The power modes (Low, Med, High) apply to both pedal assist and throttle operation, providing a consistent power experience across both methods.

Video 4.1: Demonstration of the electric bike conversion kit in use.

This short video clip demonstrates an electric bike operating at night after being equipped with the conversion kit, showcasing its functionality and the visibility provided by the bike's lights.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Topyond e-bike kit.

- **Controller Care:** Keep the controller clean and free from excessive dust or debris. While designed for heat dissipation, avoid covering it to ensure proper airflow. Ensure all cable connections remain secure and free from corrosion.
- **Display Care:** The S800 display is waterproof, but it is recommended to wipe it clean with a soft, damp cloth. Avoid using harsh chemicals or abrasive materials.
- **Wiring Inspection:** Periodically inspect all wiring for any signs of wear, fraying, or damage. Secure any loose cables to prevent them from getting caught in moving parts.
- **Battery Maintenance:** Follow the manufacturer's guidelines for your specific lithium battery to ensure its health and lifespan.

6. TROUBLESHOOTING

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

• **System Not Powering On:**

- Check the battery connection to ensure it is securely plugged into the controller.
- Verify that the battery is charged.
- Ensure the ON/OFF button on the S800 display is pressed.

• **Motor Not Responding:**

- Confirm all motor connections to the controller are firm.
- Check the throttle connection.
- Ensure the correct power mode (LOW, MED, HIGH) is selected on the S800 display.

• **Pedal Assist Not Working:**

- Inspect the assist sensor disk and wiring for proper installation and alignment.
- Ensure the assist sensor wiring is securely connected to the controller.

• **Brake Cut-off Issues:**

- If the brake cut-off function is not working, verify the compatibility of your brake levers with the provided cables. Some brake levers may require specific types for this function to operate.
- Check the connections of the brake cut-off cables to the controller.

• **Display Not Showing Correct Information:**

- Ensure the S800 display cable is securely connected to the controller.
- Check for any visible damage to the display unit or its cable.

For issues not covered here, please contact Topyond customer support.

7. SPECIFICATIONS

Feature	Specification
Brand	Topyond
Model Number	Topyond093wuygzf8
Controller Voltage	36V / 48V (Auto-sensing)
Rated Power	750W
Controller Material	Aluminum Alloy
Display Material	ABS
Display Type	S800 LED Display
Controller Dimensions (L x W x H)	Approx. 120mm x 50mm x 30mm (4.7in x 2.0in x 1.2in)
Display Dimensions (L x W)	Approx. 80mm x 40mm (3.15in x 1.57in)
Display Mounting Diameter	Approx. 22.2mm (0.87in)

Feature	Specification
Kit Weight (Package)	0.67 Kilograms

For warranty information and further support, please refer to the product packaging or contact Topyond customer service directly.

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