

VGEBY B0D8G7PM32

VGEBY 36V/48V 1000W Electric Motor Controller Kit with S810 Display Instruction Manual

Model: B0D8G7PM32

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your VGEBY 36V/48V 1000W Electric Motor Controller Kit. This kit is designed to convert standard bicycles into electric bicycles, offering enhanced performance and control. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. PACKAGE CONTENTS

Verify that all components listed below are present in your package:

- 1 x Controller (36V/48V, 1000W, 30A Max Current)
- 1 x S810 Instrument Display
- 1 x Dial Accelerator (Thumb Shifter)
- 1 x 8C Booster (PAS Sensor)
- 2 x Brake Levers (with integrated cut-off switches)
- 1 x 1-to-5 Cable (Main wiring harness)
- 1 x Light Wire
- 1 x Tail Light
- 1 x Controller Wiring Manual (Supplemental)



Figure 2.1: All components included in the VGE BY 36V/48V 1000W Electric Motor Controller Kit.



Figure 2.2: Individual components of the kit, including the controller, S810 display, thumb throttle, brake levers, PAS sensor, and tail light.

3. SAFETY INFORMATION

- Always wear a helmet and appropriate safety gear when operating an electric bicycle.
- Ensure all connections are secure and waterproofed where necessary to prevent electrical shorts.
- Do not attempt to modify the controller or any electrical components.
- Keep children away from electrical components during installation and operation.
- Regularly inspect all wiring and connections for damage.

4. SETUP AND INSTALLATION

Follow these steps for proper installation of the electric motor controller kit. Refer to the wiring diagrams for visual guidance.

4.1 Controller Placement and Connections

Mount the controller in a secure, protected location on your bicycle, away from direct water exposure. The controller box dimensions are approximately 150x83x42mm (5.9x3.3x1.7in).

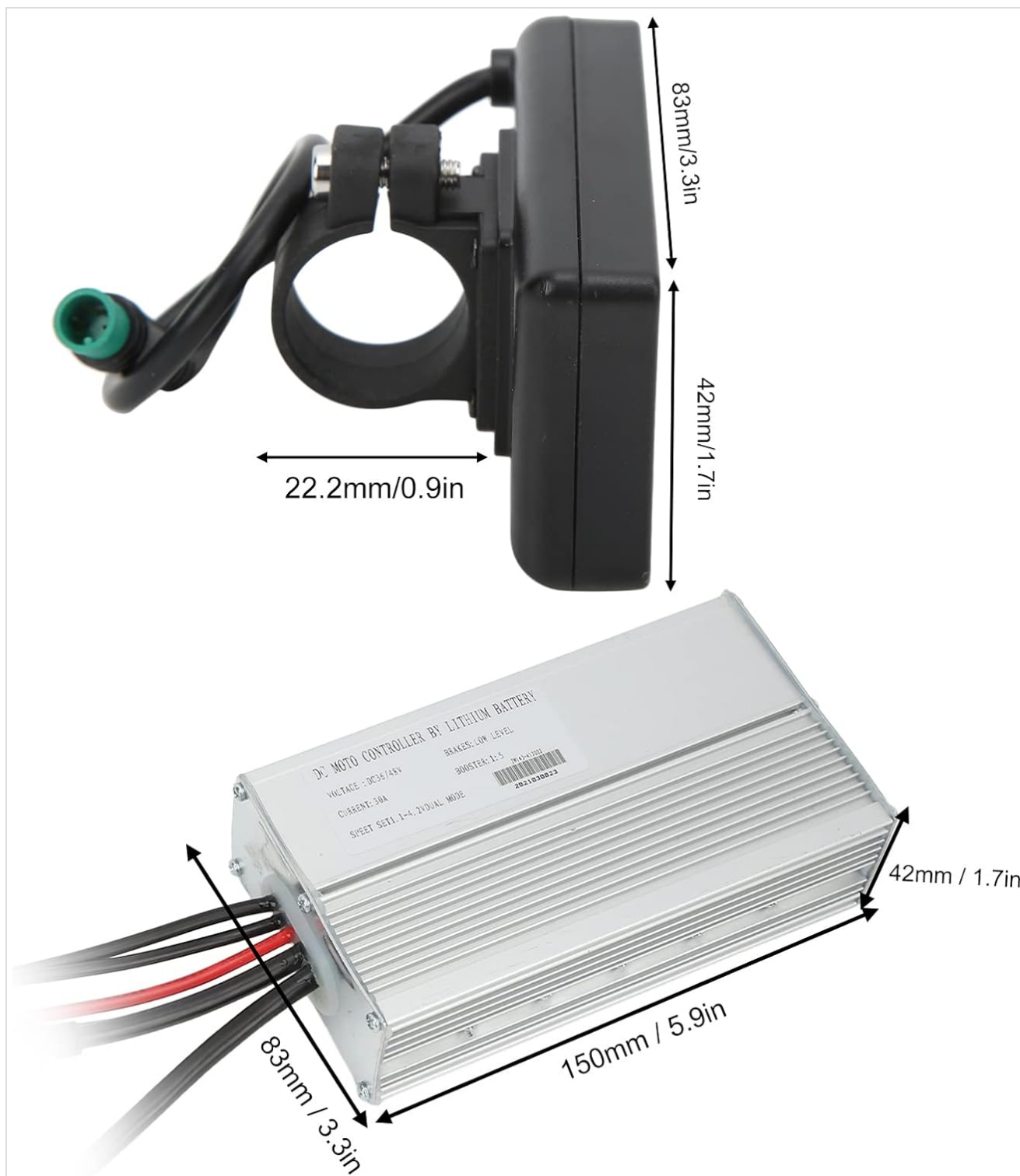


Figure 4.1: Dimensions of the S810 display and the controller unit.

Connect the main wires from the controller:

- **Motor Cable:** Connect the motor cable from the controller to your electric motor. This is typically a 9-pin connector.
- **Power Cords:** Connect the red and black power cords to your 36V or 48V battery. Ensure correct polarity (red to positive, black to negative).
- **1-to-5 Cable:** Connect the 9-pin end of the 1-to-5 cable to the corresponding port on the controller. This cable distributes connections to other accessories.
- **Light Cord:** Connect the red 2-pin light cord to the tail light.

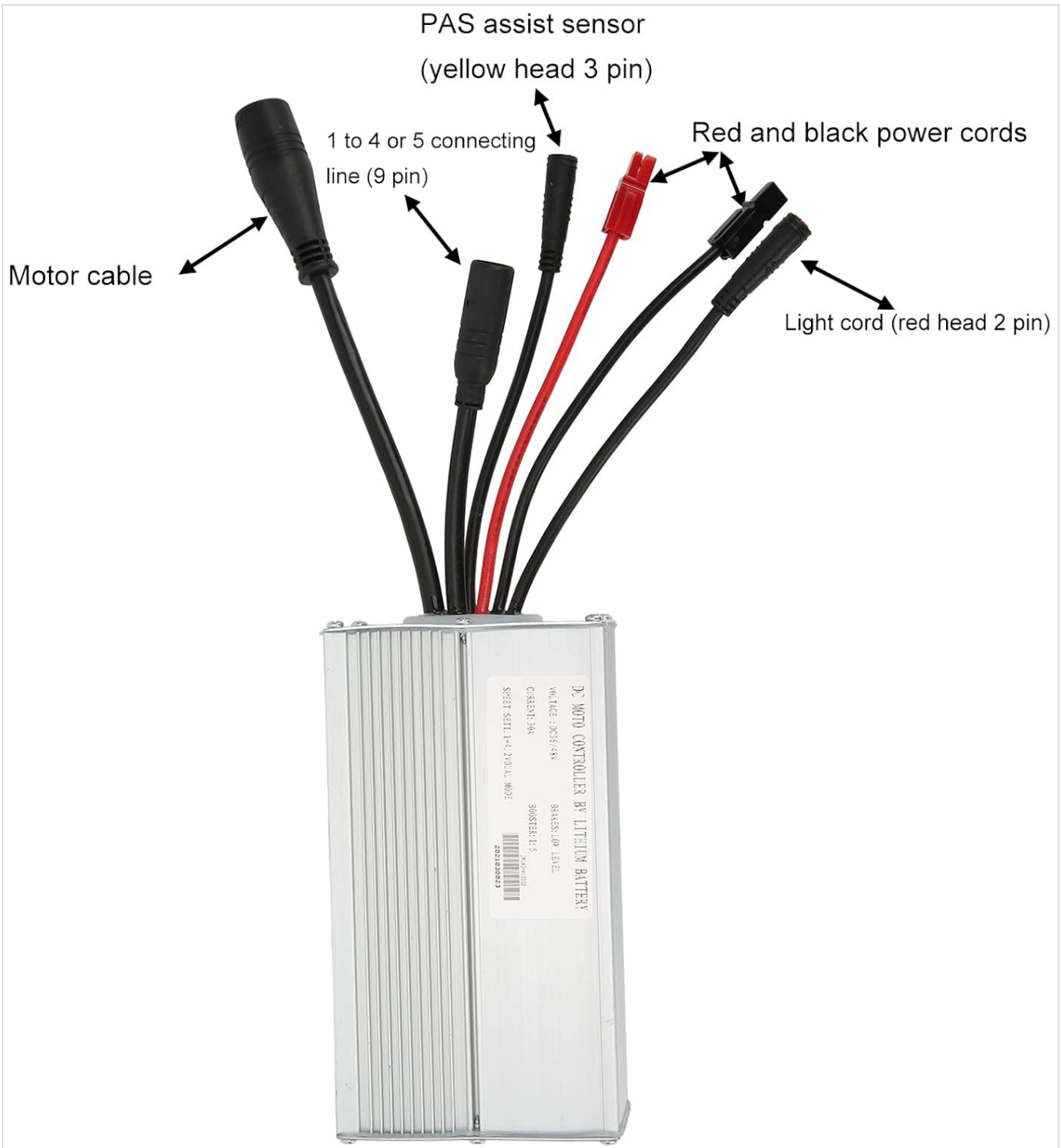


Figure 4.2: Controller wiring diagram showing connections for motor, PAS sensor, 1-to-5 cable, power, and lights.



Figure 4.3: Close-up of controller connections with pin configurations.

4.2 Connecting Accessories via 1-to-5 Cable

The 1-to-5 cable simplifies the connection of multiple accessories. Connect the following components to the corresponding ports on the 1-to-5 cable:

- **S810 Display:** Connect the 5-pin display cable.
- **Dial Accelerator (Throttle):** Connect the 3-pin throttle cable.
- **Brake Levers:** Connect the 3-pin electric brake cables from both brake levers.
- **Light:** Connect the 2-pin light cable (if not directly connected to the controller).

1 TO 5 CONNECTOR

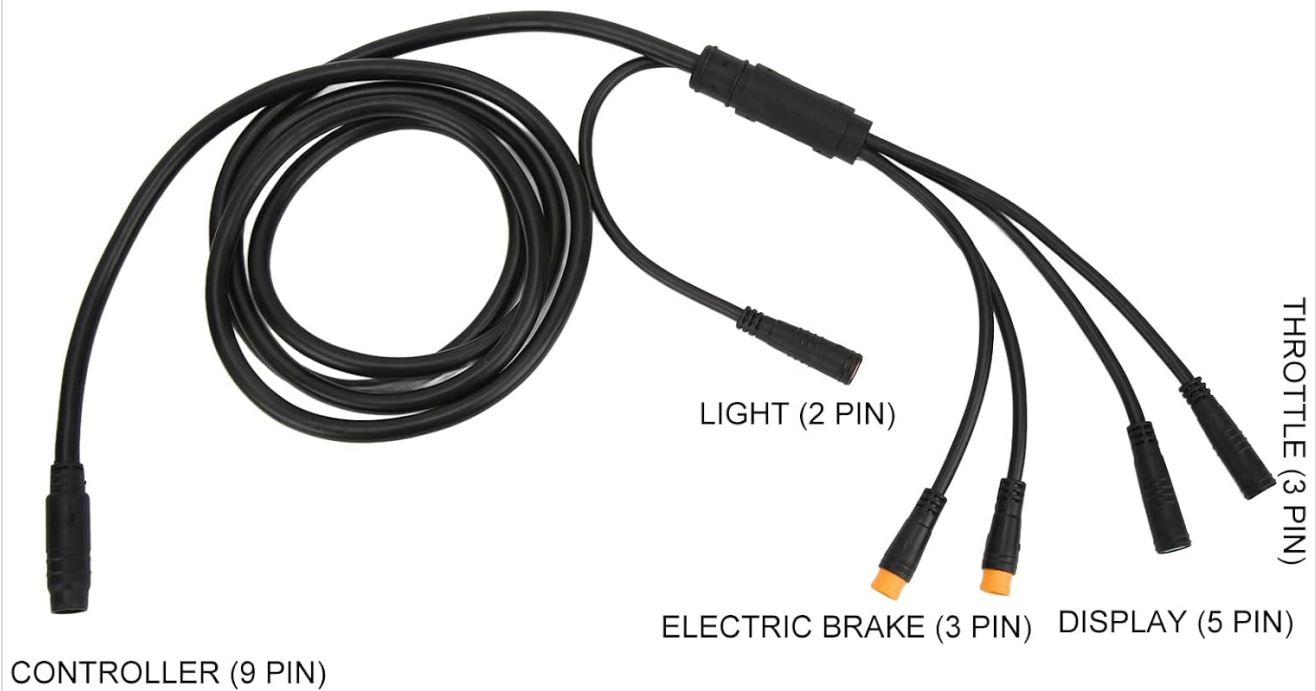


Figure 4.4: The 1-to-5 connector with labeled ports for various accessories.

4.3 PAS Sensor and Brake Levers

- **PAS Sensor (8C Booster):** Install the PAS sensor on your bicycle's bottom bracket, ensuring it aligns with the pedal crank. Connect its 3-pin yellow head cable to the controller or the 1-to-5 cable if a dedicated port is available.
- **Brake Levers:** Replace your existing brake levers with the provided ones. These levers include integrated cut-off switches that signal the controller to stop motor assistance when brakes are applied. Connect their cables to the 1-to-5 cable.



Figure 4.5: The included electric brake levers.

4.4 Complete Wiring Diagram

The following diagram illustrates the complete connection layout for all components.

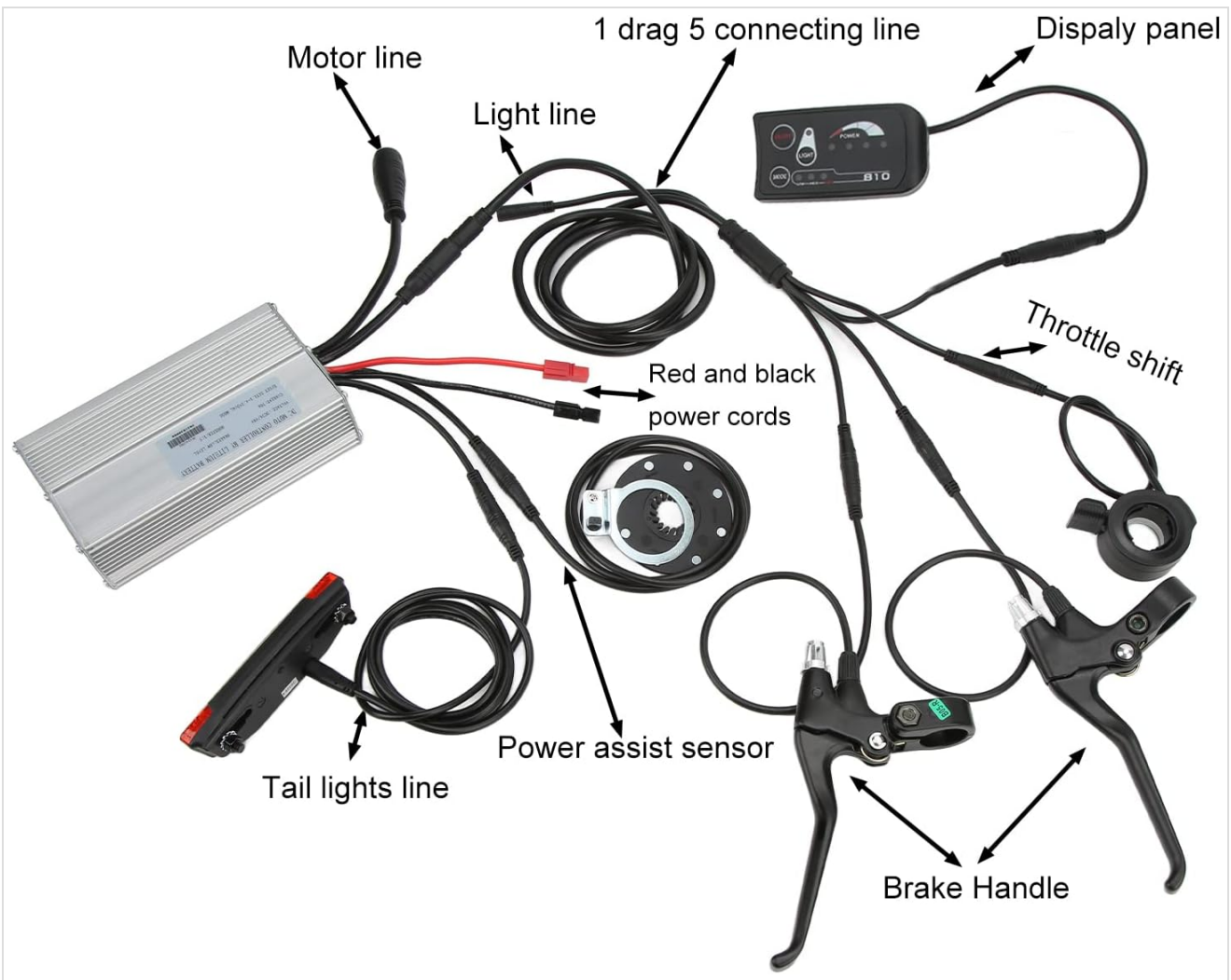


Figure 4.6: Complete wiring diagram for the VGEBY electric motor controller kit.



Figure 4.7: Example of the kit installed on an electric bicycle.

5. OPERATING INSTRUCTIONS

5.1 S810 Display Functions

The S810 display is compatible with both 36V and 48V systems and provides essential riding information.

- **Power On/Off:** Press and hold the power button to turn the system on or off.
- **Mode Button:** Use the mode button to cycle through different display modes (e.g., total mileage, trip mileage, speed).
- **Gear Indication:** The display shows high, medium, and low gear options, providing analog thrust levels. The system automatically restores the last gear state upon power-up.
- **Battery Level:** Provides an accurate display of battery power, helping to monitor remaining range.
- **Light Control:** The display may have a button to control the connected lights.

5.2 Dial Accelerator (Thumb Shifter)

The dial accelerator provides manual control over motor speed. Gently press the lever to increase speed. Release

to decrease speed.

5.3 Brake Levers

The integrated brake levers cut off power to the motor when activated, ensuring safe stopping. Always use brakes as needed for control and safety.

5.4 PAS (Pedal Assist System)

The PAS sensor detects pedaling motion and provides motor assistance based on the selected gear level. This allows for a more natural riding experience, supplementing your pedaling effort.

6. MAINTENANCE

- **Cleaning:** Wipe down the controller and display with a damp cloth. Avoid using harsh chemicals or direct water spray.
- **Connections:** Periodically check all electrical connections to ensure they are tight and free from corrosion.
- **Cable Inspection:** Inspect all cables for fraying, cuts, or damage. Replace damaged cables immediately.
- **Storage:** When not in use for extended periods, store the electric bicycle in a dry, cool place. If possible, disconnect the battery.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common troubleshooting steps:

- **No Power to Display:**
 - Check battery connection and charge level.
 - Ensure all main power cables to the controller are securely connected.
 - Verify the display cable is properly connected to the 1-to-5 cable and controller.
- **Motor Not Responding:**
 - Check motor cable connection to the controller.
 - Ensure the throttle is properly connected and functioning.
 - Verify brake levers are not engaged, as they cut motor power.
 - Check PAS sensor connection and alignment if using pedal assist.
- **Inconsistent Power/Speed:**
 - Inspect all connections for looseness or corrosion.
 - Ensure battery voltage is stable and sufficient for the motor.
 - Check for any error codes on the S810 display (refer to the supplemental controller wiring manual for specific codes).

If problems persist after attempting these steps, please contact VGEBY customer support for further assistance.

8. SPECIFICATIONS

Feature	Specification
Controller Rated Voltage	DC 36V/48V

Feature	Specification
Controller Maximum Current	30A
Applicable Motor Power	1000W
Controller Speed Setting	1-4.2V
Controller Brake Input	Low Level
Booster (PAS) Ratio	1:5
Controller Box Dimensions	Approx. 150x83x42mm (5.9x3.3x1.7in)
Item Weight	Approx. 1150g (2.54 lbs)
Material	Aluminum Alloy + Plastic

9. WARRANTY AND SUPPORT

This product comes with a standard manufacturer's warranty. For specific warranty details, please refer to the product packaging or contact VGEBy customer service. For technical support or inquiries, please visit the official VGEBy store on Amazon or contact their customer support channels.

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