

Drfeify Drfeifywk7dupgv1x

Drfeify 48V 800W Dual Drive Electric Scooter
Controller User Manual

Model: Drfeifywk7dupgv1x

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Drfeify 48V 800W Dual Drive Electric Scooter Controller. Please read this manual thoroughly before use to ensure proper functionality and to prevent damage to the product or injury.

2. PRODUCT OVERVIEW

The Drfeify 48V 800W Dual Drive Electric Scooter Controller is designed to manage the power and speed of electric scooters, electric bicycles, and electric tricycles. It features an aluminum alloy shell for excellent heat dissipation, protecting internal circuits from overheating. The controller incorporates undervoltage, overcurrent, and overspeed protection mechanisms, along with high-temperature flame-retardant wiring for enhanced safety and durability. It aims to provide stable, efficient, and smooth control for an optimized riding experience.



Figure 2.1: Drfeify 48V 800W Dual Drive Electric Scooter Controller with its wiring harness.

3. SAFETY INFORMATION

- Always disconnect power before installing, removing, or performing maintenance on the controller or any related electrical components.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- Do not expose the controller to water or excessive moisture.
- Avoid modifying the controller or its wiring, as this may void the warranty and create safety hazards.
- Operate electric scooters and vehicles responsibly and in accordance with local laws and regulations.
- If you are unsure about any installation or operation steps, consult a qualified technician.

4. SETUP AND INSTALLATION

Installation of the controller requires careful attention to wiring connections. While specific wiring diagrams may vary based on your scooter model, the general steps involve connecting the controller to the battery, motor, throttle, brakes, and other accessories.

4.1 Identifying Connections

The controller features multiple color-coded wires and connectors. Refer to the label on the controller and your

scooter's wiring diagram to correctly identify each connection point.



Figure 4.1: Detailed view of the controller's wiring harness.

4.2 General Installation Steps

1. **Mounting:** Securely mount the controller in a protected area on your scooter, ensuring adequate airflow for heat dissipation.
2. **Battery Connection:** Connect the main power wires from the controller to your 48V battery pack. Ensure correct polarity (positive to positive, negative to negative).
3. **Motor Connection:** Connect the motor phase wires and Hall sensor wires from the controller to your scooter's motor.
4. **Throttle Connection:** Connect the throttle input wires to your scooter's throttle assembly.
5. **Brake Connections:** Connect the brake signal wires. Some controllers support regenerative braking.
6. **Accessory Connections:** Connect any additional accessories such as lights, display, or horn, following their respective wiring instructions.
7. **Initial Test:** After all connections are made, perform a low-speed test in a safe environment to verify proper operation before full use.

Warning: Incorrect wiring can cause severe damage to the controller, motor, battery, or lead to personal injury. If you are not confident in your ability to perform the installation, seek professional assistance.

5. OPERATING INSTRUCTIONS

Once properly installed, the Drfeify controller provides seamless operation of your electric scooter. The controller is designed for stable and efficient power delivery, ensuring smooth acceleration and responsive braking.

- **Power On/Off:** Use your scooter's main power switch to turn the system on or off.
- **Acceleration:** Gently apply the throttle to accelerate. The controller will manage power output for a smooth start and consistent speed.
- **Braking:** Engage the brake levers. The controller's protective features, including regenerative braking (if supported by your scooter's system), will assist in safe deceleration.
- **Monitoring:** Pay attention to your scooter's display (if equipped) for battery level, speed, and any error indicators.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your electric scooter controller.

- **Keep Clean:** Periodically clean the exterior of the controller to prevent dust and debris buildup, which can hinder heat dissipation. Use a dry, soft cloth.
- **Check Connections:** Regularly inspect all wiring connections for tightness and signs of wear or corrosion. Re-secure any loose connections.
- **Avoid Moisture:** Ensure the controller remains dry. If it gets wet, disconnect power immediately and allow it to dry completely before reconnecting.
- **Temperature Management:** Ensure the controller is mounted in a location that allows for adequate airflow to facilitate its heat dissipation function.

7. TROUBLESHOOTING

If you encounter issues with your Drfeify controller, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Scooter does not power on.	Loose battery connection, discharged battery, faulty power switch.	Check battery connections, charge battery, inspect power switch.
Motor not responding to throttle.	Loose throttle connection, faulty throttle, motor connection issue.	Verify throttle wiring, test throttle, check motor phase and Hall sensor connections.
Erratic or inconsistent power.	Loose connections, damaged wiring, internal controller fault.	Inspect all wiring for damage, ensure secure connections. If problem persists, contact support.
Controller overheating.	Insufficient airflow, excessive load, internal fault.	Ensure controller is not obstructed, reduce load, check for internal damage.

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

8. SPECIFICATIONS

Below are the technical specifications for the Drfeify 48V 800W Dual Drive Electric Scooter Controller:



Figure 8.1: Controller with visible specification label.

Feature	Detail
Model Name	Drfeifywk7dupgv1x
Voltage	48V
Power	800W
Material	Aluminum Alloy
Special Features	Regenerative Braking, Advanced Heat Dissipation, Stable Performance (Undervoltage, Overcurrent, Overspeed Guard)
Item Package Dimensions	7.09 x 6.73 x 1.65 inches
Package Weight	0.34 Kilograms

9. WARRANTY AND SUPPORT

9.1 Limited Warranty

This Drfeify product comes with a limited warranty. Please refer to the terms and conditions provided at the time of purchase for specific details regarding coverage and duration. The warranty typically covers manufacturing defects under normal use conditions.

9.2 Customer Support

For technical assistance, troubleshooting not covered in this manual, or warranty claims, please contact Drfeify customer support through the retailer where the product was purchased or visit the official Drfeify store page on Amazon: [Drfeify Store](#).

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