

## Klanata DK72550T

# Klanata DK72550T 72V 8000W Brushless DC Motor Controller Instruction Manual

Model: DK72550T | Brand: Klanata

## 1. PRODUCT OVERVIEW

The Klanata DK72550T is a high-performance brushless DC motor controller designed for 72V 8000W electric motorcycles and mobility scooters. It features advanced sine wave technology for smooth and quiet operation, ensuring efficient power management and enhanced riding performance. This controller is built with durable materials to withstand high temperatures, providing stable and reliable long-term use. Its smart self-learning function simplifies installation and setup by automatically adapting to various motor settings.

### Key Features:

- **Guaranteed Fit:** Specifically designed for QS Motor electric motorcycles and mobility scooters, replacing OE DK72550T. Ensure compatibility by verifying your motor model and voltage.
- **Powerful 8000W Performance:** Manages motor speed and power output effectively for improved acceleration and overall riding experience.
- **Stable Sine Wave Technology:** Utilizes advanced sine wave control for smooth, quiet operation, perfectly matching QS hub motors or QS mid-drive motors.
- **Durable High-Temperature Construction:** Manufactured with robust materials to endure high temperatures, ensuring stable performance and extended reliability.
- **Smart Self-Learning Function:** Automatically adapts to different motor settings, simplifying the installation and configuration process.

## 2. PACKAGE CONTENTS

- 1 x Brushless DC Motor Controller (DK72550T)
- 1 x Terminal Cover
- 1 x Wiring Harness
- 5 x Screws

### 3. INSTALLATION GUIDE

Installation of the DK72550T controller requires careful attention to wiring and component placement. It is highly recommended that installation be performed by a professional mechanic to ensure proper function and safety.

#### 3.1 General Controller View



Figure 3.1: Klanata DK72550T Brushless DC Motor Controller. This image shows the controller in the foreground with an electric scooter in the background, illustrating its intended application.

#### 3.2 Wiring Connections

Ensure all connections are secure and correctly matched according to the wiring diagram of your electric vehicle. The controller features clearly marked terminals for phase wires and other connections.



Figure 3.2: The DK72550T controller with its associated wiring harness. This view highlights the various connectors and wires for integration into your electric vehicle's system.



Figure 3.3: A detailed view of the wiring terminals on the DK72550T controller, showing the secure connections for power and signal lines.

The controller is pre-set with parameters. There is no need to self-learn or change the settings after receiving the product. If necessary, please tune with the help of professionals or ask us for the video of parameter settings through Amazon.

### **3.3 Mounting the Controller**

Securely mount the controller in a location that is protected from direct moisture and excessive heat, ensuring adequate airflow for cooling. Use the provided screws for mounting.



Figure 3.4: Top view of the DK72550T controller, displaying warning labels and the main connector port. Ensure these labels are visible and understood before installation.

## Fine Workmanship

The controller is professionally manufactured with meticulous workmanship, boasting a unique design that ensures stable performance and high reliability.



Figure 3.5: Close-up of the "QC PASS" sticker on the controller, indicating quality control inspection.

## 4. OPERATING INSTRUCTIONS

Once the controller is correctly installed and all connections are verified, the system is ready for operation. The smart self-learning function will adapt to your motor's characteristics, providing optimized performance.

1. **Power On:** Turn on the main power switch of your electric vehicle.
2. **Throttle Control:** Gently apply the throttle to initiate motor movement. The sine wave technology ensures a smooth and responsive acceleration.
3. **Monitoring:** Observe the vehicle's performance. If any unusual behavior occurs, power off immediately and consult a professional.

## 5. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your DK72550T controller and electric vehicle system.

- **Keep Clean:** Periodically clean the exterior of the controller to prevent dust and debris buildup, which can

affect cooling.

- **Inspect Connections:** Regularly check all wiring connections for tightness and signs of wear or corrosion. Loose connections can lead to intermittent operation or damage.
- **Avoid Overheating:** Ensure the controller is not exposed to environments that exceed its operating temperature limits. Proper ventilation is crucial.
- **Professional Inspection:** Consider having a professional mechanic inspect your electric vehicle's electrical system, including the controller, at least once a year.

## 6. TROUBLESHOOTING

This section provides general troubleshooting tips for common issues. For complex problems, professional assistance is recommended.

- **No Power:**
  - Check battery connections and charge level.
  - Verify the main power switch is ON.
  - Inspect all wiring for loose connections or damage.
- **Motor Not Responding:**
  - Ensure throttle is correctly connected and functioning.
  - Check motor phase wire connections.
  - Verify Hall sensor connections.
- **Intermittent Operation:**
  - Inspect all wiring for loose or corroded connections.
  - Check for signs of overheating on the controller.

If troubleshooting steps do not resolve the issue, contact Klanata customer support or a certified technician.

## 7. SPECIFICATIONS

Feature	Detail
Item Type	Brushless DC Motor Controller
Material	Metal, ABS
Model	DK72550T
Voltage	72V default (36-100V compatible)
Bus Current	180A / 280A
Phase Current	550A
Estimated Speed	Approx. 130 km/h (actual speed depends on vehicle weight and wind resistance)
Bluetooth (BT)	Built-in

Feature	Detail
Fitment	Fits for QS Motor Electric motorcycle and mobility scooter 8000W
Package Dimensions	9.06 x 7.09 x 2.76 inches
Item Weight	3.86 pounds
Manufacturer	Klanata

## 8. WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your Klanata DK72550T Brushless DC Motor Controller, please refer to the contact information provided by your retailer or visit the official Klanata store on Amazon.

**Klanata Store:** [Visit the Klanata Store on Amazon](#)