

[Manuals.plus](#) /

› [mGYDY](#) /

› mGYDY 36V/48V KT 25A Ebike Brushless Motor Controller Sine Wave for 750W Motor Instruction Manual

mGYDY KT 25A Ebike Brushless Motor Controller

mGYDY 36V/48V KT 25A Ebike Brushless Motor Controller Sine Wave for 750W Motor Instruction Manual

PRODUCT OVERVIEW

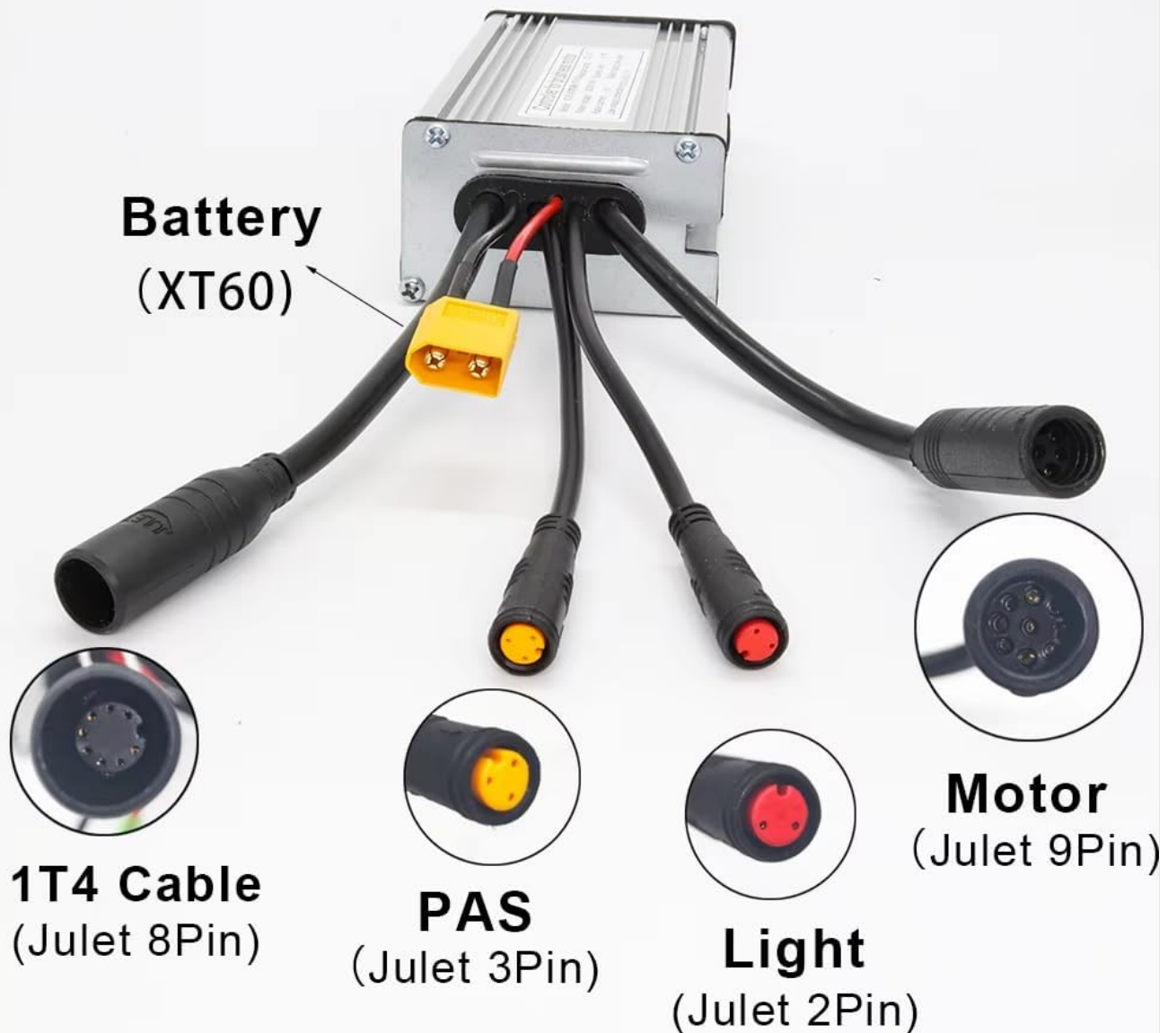
This manual provides detailed instructions for the mGYDY 36V/48V 25A Ebike Brushless Motor Controller, designed for 750W motors. It ensures stable speed control and responsive braking for brushless motors, enhancing your electric bike's performance. The controller features an aluminum alloy shell for efficient heat dissipation and precisely designed interfaces for reliable long-term use. A 1T5 cable is included for a complete setup.



Image of the mGYDY 36V/48V KT 25A Ebike Brushless Motor Controller, a silver rectangular unit with multiple black cables extending from one end, against a plain background.

Key Features

- **Powerful Compatibility and Performance:** Designed for 36V/48V systems and 750W motors, compatible with KT Accessories. Provides steady speed control and sensitive braking.
- **Efficient Heat Dissipation:** Aluminum alloy shell protects internal circuits from thermal overload, extending product lifespan.
- **High Precision Wiring and Interfaces:** Minimizes malfunction risks and ensures consistent operation.
- **Complete Package:** Includes the brushless controller and a 1T5 cable for convenient installation.
- **Compact Design:** Measures 126x66x39mm with a sleek silver finish, integrating well into e-bike setups.



Close-up image of the mGYDY 36V/48V KT 25A Ebike Brushless Motor Controller's label, detailing its model number (KT36/48ZSRM-EEP10L), rated voltage (DC36V/48V), rated current (12A), maximum current ($25\pm 1A$), speed set (1-4.2V), brake input (Low-Level), and low voltage protection ($DC30/40\pm 0.5V$).

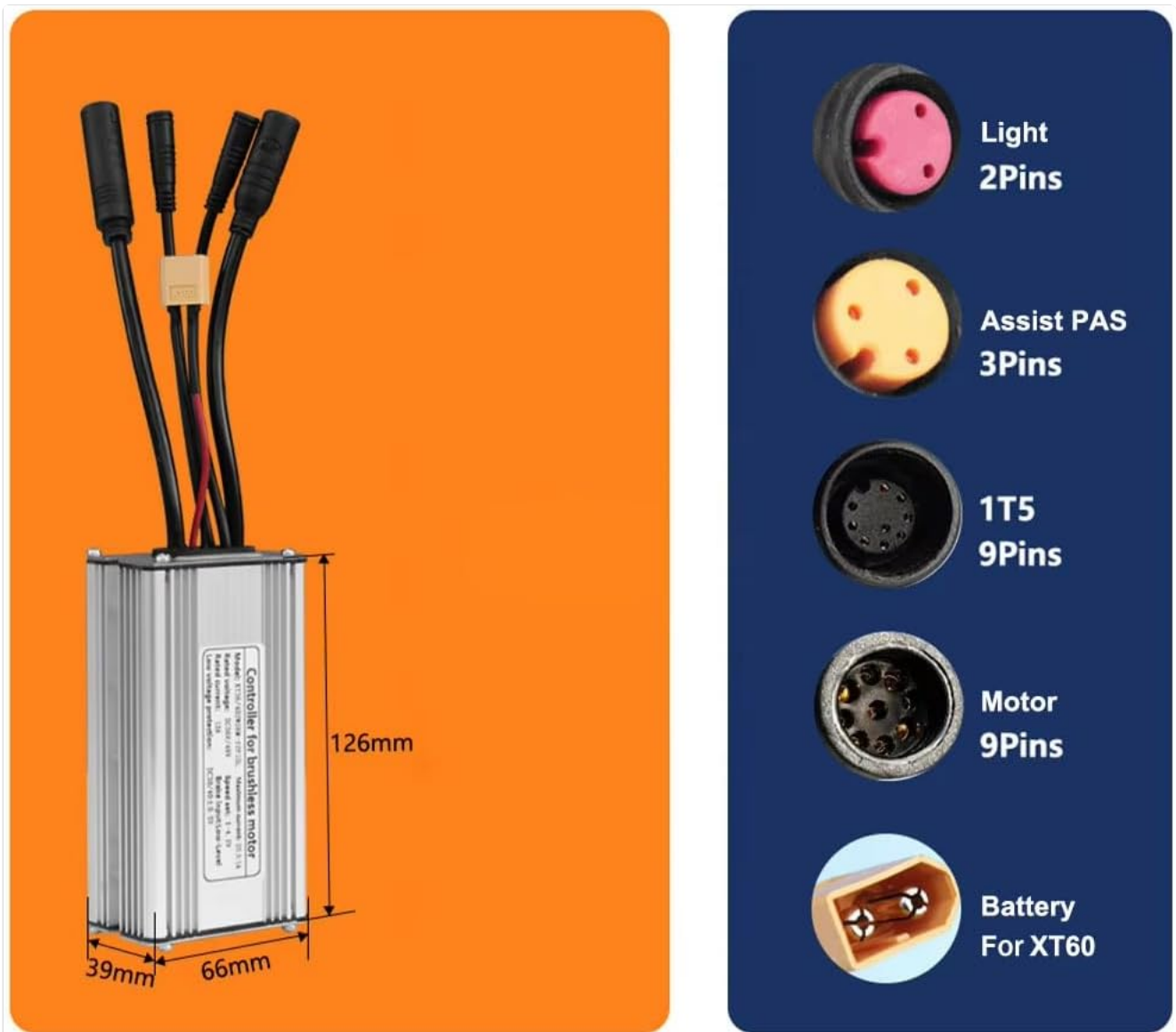


Image showing the mGYDY 36V/48V KT 25A Ebike Brushless Motor Controller with its dimensions (126mm length, 66mm width, 39mm height) and various labeled connectors: Light (2Pins), Assist PAS (3Pins), 1T5 (9Pins), Motor (9Pins), and Battery (for XT60).

SETUP INSTRUCTIONS

Component Identification

Before installation, identify all components included in your package:

- mGYDY 36V/48V KT 25A Ebike Brushless Motor Controller
- 1T5 Cable
- Other accessories (e.g., display, throttle, brakes - if purchased separately or as part of a kit)

Connection Guide

The controller features multiple labeled ports for connecting various e-bike components. Ensure all connections are secure and correctly aligned to prevent damage.

1. **Battery Connection:** Connect your e-bike battery to the XT60 connector on the controller. Ensure correct polarity.
2. **Motor Connection:** Connect the motor cable to the 9-pin motor port on the controller.
3. **1T5 Cable Connection:** Connect the main 1T5 cable to its designated 9-pin port on the controller. This cable

typically branches out to connect other peripherals.

4. **Display Connection:** Connect your KT display to the 5-pin display connector on the 1T5 cable. **Important: This controller requires a KT display for proper operation.**
5. **Light Connection:** If applicable, connect your e-bike light to the 2-pin light connector on the 1T5 cable.
6. **PAS (Pedal Assist Sensor) Connection:** Connect the PAS sensor to the 3-pin Assist PAS connector on the 1T5 cable.
7. **Brake Lever Connections:** Connect your e-bike brake levers to the two 2-pin brake connectors on the 1T5 cable.
8. **Throttle Connection:** If using a thumb throttle, connect it to the 3-pin Thumb Throttle connector on the 1T5 cable.

Mounting the Controller

Securely mount the controller to your e-bike frame using appropriate fasteners. The aluminum alloy shell is designed for heat dissipation, so ensure it has adequate airflow.



Image illustrating the various connectors of the 1T5 cable, including 9Pin Controller, 2Pin Light, 3Pin Thumb Throttle, 5Pin Display, and two 2Pin Brake connectors, color-coded for easy identification.



Image of the mGYDY 36V/48V KT 25A Ebike Brushless Motor Controller with all its ports clearly labeled, emphasizing the requirement for a KT Display and showing connections for Light, PAS, 1T5, Motor, and Battery (XT60).

Video demonstrating the simple connection steps for the e-bike brushless motor controller, showing how to connect the various cables including the light, PAS, 1T5, motor, and battery, and then connecting a display.

OPERATING INSTRUCTIONS

Once all components are correctly connected and the battery is charged:

1. **Power On:** Turn on your e-bike's power switch, usually located on the battery or display.
2. **Display Activation:** Activate the KT display. The display will show essential information such as speed, battery level, and assist mode.
3. **Assist Level Selection:** Use the controls on your KT display to select your desired pedal assist level.
4. **Riding:** Begin pedaling. The motor will provide assistance based on your selected level. If a throttle is installed, it can be used to control speed directly.
5. **Braking:** The controller is designed for sensitive braking response. Engaging the brake levers will cut power to the motor.
6. **Power Off:** When finished riding, power off the display and then the battery.

Video showcasing the mountain bike motor controller in action, demonstrating optimized riding control and smooth, silent, and reliable performance on various terrains.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your mGYDY Ebike Brushless Motor Controller.

- **Keep Clean:** Periodically wipe down the controller's exterior with a dry cloth to remove dirt and dust. Avoid using harsh chemicals or excessive moisture.
- **Inspect Connections:** Regularly check all cable connections for tightness and signs of wear or corrosion. Loose connections can lead to intermittent power or component failure.
- **Avoid Overheating:** While the aluminum alloy shell provides good heat dissipation, avoid operating the e-bike in conditions that could lead to extreme overheating. Ensure the controller is not covered or obstructed.
- **Protect from Water:** Although the controller is waterproof, avoid submerging it in water or exposing it to high-pressure water jets.

- **Software Updates:** If applicable, refer to your KT display manual or manufacturer's website for any available firmware updates for the controller system.

TROUBLESHOOTING

This section addresses common issues you might encounter with your e-bike controller.

No Power to Motor/Display

- **Check Battery:** Ensure the e-bike battery is fully charged and properly connected to the controller.
- **Check Connections:** Verify that all power cables (battery, motor, display) are securely connected and free from damage.
- **Display Compatibility:** Confirm that you are using a compatible KT display, as this controller requires one.

Motor Not Responding

- **Check Motor Cable:** Ensure the motor cable is firmly connected to the controller.
- **PAS/Throttle Connection:** Verify that the PAS sensor or throttle is correctly connected and functioning.
- **Brake Levers:** Ensure brake levers are not engaged, as they cut motor power. Check brake lever sensor connections.

Intermittent Power/Performance

- **Loose Connections:** Inspect all connectors for looseness or corrosion.
- **Wiring Damage:** Check for any visible damage to the wiring or insulation.
- **Overheating:** Allow the controller to cool down if it feels excessively hot. Ensure it has adequate ventilation.

Error Codes on Display

Refer to your KT display's instruction manual for specific error code interpretations and troubleshooting steps.

TECHNICAL SPECIFICATIONS

Feature	Specification
Model	KT36/48ZSRM-EEP10L
Rated Voltage	DC36V/48V
Rated Current	12A
Maximum Current	25 ± 1A
Speed Set	1-4.2V
Brake Input	Low-Level
Low Voltage Protection	DC30/40 ± 0.5V
Motor Compatibility	750W Brushless Motor
Material	Aluminum Alloy (Shell), ABS (Frame)

Feature	Specification
Dimensions	126x66x39mm
Color	Silver
UPC	744128416700
ASIN	B0F54WJ7HT

PACKAGE CONTENTS

The following items are included in your product package:

- 1 x mGYDY 36V/48V KT 25A Ebike Brushless Motor Controller
- 1 x 1T5 Cable

WARRANTY AND SUPPORT

This product comes with a 1-Year Manufacturer Warranty. For warranty claims or technical support, please contact the manufacturer or your retailer. Keep your purchase receipt as proof of purchase.