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KEMIMOTO KM0406

KEMIMOTO Motorcycle USB Charger User Manual

Model: KM0406

Introduction

Thank you for purchasing the KEMIMOTO Motorcycle USB Charger. This device is designed to provide convenient and reliable power for your electronic devices while riding. It features both Type-C and USB-A ports with fast charging capabilities, an integrated LED voltmeter for battery monitoring, and a durable, waterproof design suitable for various riding conditions. Please read this manual carefully before installation and use to ensure proper operation and safety.

Safety Information

- Ensure the input voltage of your motorcycle is within the specified range of 10-24V.
- Always turn off the power switch when the charger is not in use to prevent battery drain.
- Do not attempt to disassemble or modify the charger.
- Keep the USB ports covered with the rubber cap when not in use to maintain waterproof integrity.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits.
- If you encounter any issues, refer to the troubleshooting section or contact customer support.

Package Contents

Verify that all items are present in your package:

- KEMIMOTO Motorcycle USB Charger Unit
- Handlebar Mounting Bracket
- Mirror Base Mounting Bracket
- Power Cable (approx. 130cm)
- Mounting Hardware (screws, nuts, washers)
- User Manual



Image: All components included in the KEMIMOTO Motorcycle USB Charger package, laid out for inspection.

Setup and Installation

The KEMIMOTO Motorcycle USB Charger offers two primary installation methods:

1. Handlebar Mounting

1. Select a suitable position on your motorcycle's handlebar.
2. Attach the handlebar mounting bracket to the handlebar using the provided screws and tighten securely.
3. Mount the USB charger unit onto the bracket.

2. Mirror Base Mounting

1. Unscrew your motorcycle's mirror from its base.
2. Place the mirror base mounting bracket over the mirror's threaded post.
3. Re-attach the mirror and tighten it, securing the bracket in place.
4. Mount the USB charger unit onto the bracket.

Wiring Connection

- Connect the red wire of the charger to the positive (+) terminal of your motorcycle's battery or a switched 12-24V power source.
- Connect the black wire to the negative (-) terminal of the battery or a suitable ground point on the motorcycle chassis.
- Ensure all connections are firm and protected from water and abrasion.



Image: Visual guide demonstrating both mirror base and handlebar installation options for the charger.



Image: Close-up of the power cable connection, highlighting the easy and secure plug-in design.

Operating Instructions

Power On/Off

The charger features an independent power switch. Press the switch to turn the unit on or off. The LED voltmeter will illuminate when the unit is powered on.



Image: A finger pressing the red power switch on the charger, indicating its on/off function.

Charging Devices

This charger is equipped with both a Type-C port and a USB-A port, allowing simultaneous charging of two devices. It supports major fast charging standards including PD3.0, PPS, QC2.0, QC3.0, FCP, and AFC.

- Connect your device's charging cable to the appropriate USB-A or Type-C port.
- Ensure the charger's power switch is in the 'ON' position.
- The charger will automatically detect your device and deliver optimal charging current.



Image: The charger actively charging a smartphone via its Type-C port, highlighting QuickCharge 3.0 compatibility and dual port functionality.

LED Voltmeter

The integrated LED display shows the real-time voltage of your motorcycle's battery when the charger is powered on. This allows you to monitor your battery's health at a glance and prevent issues caused by low voltage.

- **Normal Voltage (Engine Off):** 12.3V - 12.8V
- **Normal Voltage (Engine On):** 13.0V - 14V
- **Low Voltage:** Below 12V (Consider replacing battery)
- **Over Voltage:** Above 14.5V



Image: The LED display showing various voltage readings (Normal, Low, Over Voltage) and their corresponding battery status.

Maintenance

- **Cleaning:** Wipe the charger with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Waterproof Protection:** The charger has an IP66 waterproof rating. Always ensure the rubber USB cover is securely closed when ports are not in use to protect against water and dust.
- **Cable Inspection:** Periodically check the power cable for any signs of wear, cuts, or damage. Replace if necessary.



Image: The KEMIMOTO charger mounted on a motorcycle handlebar, shown being exposed to water droplets, demonstrating its IP66 waterproof capability.

Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Charger not powering on / No LED display	Power switch is off; Loose wiring connection; No power from battery; Blown fuse (if applicable).	Ensure power switch is ON. Check all wiring connections. Verify battery voltage. Check for an inline fuse and replace if blown.
Device not charging / Intermittent charging	Loose cable connection; Faulty charging cable; Device incompatibility; Charger port issue.	Ensure charging cable is fully inserted. Try a different cable or device. Check if the port is clean and free of debris.
Inaccurate voltage reading on LED display	Minor calibration difference; Wiring resistance.	The display provides an approximate reading. For precise measurements, use a dedicated multimeter. Ensure wiring is direct and secure.
Charger stops working during use	Overheat protection activated; Short circuit protection activated; Overcurrent protection activated.	Disconnect devices, turn off the charger, and allow it to cool down. Check for any short circuits in the wiring or connected devices. Reduce the number of devices being charged simultaneously.

Specifications

- **Model:** KM0406
- **Brand:** KEMIMOTO
- **Input Voltage:** 10-24V DC
- **USB-A Output:** 5V-3A, 9V-2A, 12V-1.5A
- **Type-C Output:** 5V-3A, 9V-3A, 12V-2.5A
- **Fast Charging Protocols:** PD3.0, PPS, QC2.0, QC3.0, FCP, AFC
- **Waterproof Rating:** IP66
- **Dimensions (D x W x H):** Approximately 11 cm x 6 cm x 7 cm
- **Cable Length:** Approximately 130 cm
- **Material:** High-strength Premium ABS
- **Protection Features:** Overcurrent, Short Circuit, Reverse Connection, Overheat Protection

Warranty and Support

KEMIMOTO products come with a**12-month warranty period** against manufacturer defects. If you encounter any issues or have questions regarding your product, please do not hesitate to contact our customer support team. We are committed to providing assistance and ensuring your satisfaction.
For support, please refer to the contact information provided with your purchase or visit the official KEMIMOTO website.

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