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Mighty Max Battery ML-24V5A43

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Model: ML-24V5A43

INTRODUCTION

Thank you for choosing the Mighty Max Battery 24 Volt 5 Amp Three Stage XLR Scooter Charger. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your charger. Please read this manual thoroughly before using the product to ensure proper function and longevity.

IMPORTANT SAFETY INFORMATION

- **Read all instructions:** Before using the charger, read all instructions and cautionary markings on the charger, the battery, and the product using the battery.
- **Indoor use only:** This charger is designed for indoor use. Do not expose it to rain or moisture.
- **Ventilation:** Ensure adequate ventilation during charging. Do not cover the charger.
- **Avoid flammable materials:** Do not operate the charger near flammable materials or gases.
- **Proper voltage:** Connect the charger to a power outlet with the correct voltage (240 Volts as per specifications).
- **XLR connector:** Ensure the 3-pin XLR connector is securely attached to the scooter's charging port.
- **Battery compatibility:** This charger is suitable for 24 Volt Sealed Lead Acid and Gel Cell batteries. Do not attempt to charge other battery types.
- **Supervision:** Do not leave the charger unattended for extended periods, especially during the initial charging phase.
- **Children and pets:** Keep the charger out of reach of children and pets.
- **Damaged components:** Do not use the charger if the power cord, plug, or charger casing is damaged. Contact customer support for assistance.

PRODUCT OVERVIEW

The Mighty Max Battery 24 Volt 5 Amp XLR Scooter Charger is designed for efficient and safe charging of your scooter's battery. It features a three-stage charging method to prevent overcharging and includes short circuit protection for enhanced safety.

Key Features:

- 24 Volts 5 Amp output with a 3-pin XLR connector.
- Three-stage charging method to prevent battery overcharging.
- Built-in short circuit protection for safe operation.
- Compatible with both Sealed Lead Acid and Gel Cell batteries.
- Charge Percentage LED indicator for monitoring charging status.

Charger Components:



Figure 1: Overall view of the Mighty Max Battery 24 Volt 5 Amp XLR Scooter Charger.



Figure 2: Rear view of the charger showing the power input port and cooling fan.



Figure 3: Front view of the charger displaying the LED status indicators and output port.



Figure 4: Detailed view of the 3-pin XLR output connector.

SETUP

1. **Unpack:** Carefully remove the charger from its packaging. Inspect for any visible damage.
2. **Placement:** Place the charger on a stable, flat surface in a well-ventilated area, away from direct sunlight, heat sources, and moisture.
3. **Power Connection:** Ensure the charger's power switch is in the OFF position. Connect the AC power cord to the charger's input port (refer to Figure 2).
4. **Battery Connection:** Connect the 3-pin XLR output connector of the charger to the charging port on your 24 Volt scooter (refer to Figure 4). Ensure a firm connection.
5. **Power Outlet:** Plug the AC power cord into a standard 240 Volt wall outlet.

OPERATING INSTRUCTIONS

This charger utilizes a three-stage charging process to optimize battery life and performance.

Charging Process:

1. **Initiate Charging:** After connecting the charger to the scooter and power outlet, switch the charger ON.
2. **Monitoring LED Indicators:** Observe the LED status display (refer to Figure 3).
 - o **Red LED:** Indicates the battery is charging (0-89% charged).
 - o **Green LED:** Indicates the battery is charging (90-99% charged).
 - o **Green LED OFF:** Indicates the battery is fully charged (100%).

- **Blue LED:** Indicates the power source is connected and OK.
3. **Automatic Shut-off:** The charger will automatically turn off when the battery is fully charged or after a 12-hour charging period to prevent overcharging.
 4. **After Charging:** Once the battery is fully charged (Green LED OFF), switch the charger OFF. Disconnect the AC power cord from the wall outlet, then disconnect the XLR connector from the scooter.

Note: If the charger turns off after 12 hours and the battery is not fully charged, please turn off the switch for 1 minute before attempting to charge again.

MAINTENANCE

- **Cleaning:** Keep the charger clean and free from dust and debris. Use a dry, soft cloth to wipe the exterior. Do not use liquid cleaners.
- **Storage:** When not in use, store the charger in a cool, dry place, away from extreme temperatures and moisture.
- **Cable Inspection:** Regularly inspect the power cord and XLR connector for any signs of wear, cuts, or damage. Replace if necessary.
- **Ventilation:** Ensure the cooling vents on the charger remain unobstructed to prevent overheating.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Charger not turning on / No LEDs lit.	No power from outlet. Charger switch is OFF. Faulty power cord.	Check the wall outlet with another device. Ensure the charger switch is ON. Inspect power cord for damage; replace if necessary.
Red LED stays on for a very long time.	Battery is deeply discharged. Battery capacity is very high.	Allow more time for charging. If charging exceeds 12 hours and Green LED does not appear, disconnect and reconnect after 1 minute. If issue persists, battery may be faulty.
Green LED turns OFF, but battery feels undercharged.	Battery may be old or faulty. Incorrect battery type for charger.	Test the battery with a battery tester or consult a professional. Ensure battery is a 24V Sealed Lead Acid or Gel Cell type.
Charger gets excessively hot.	Poor ventilation. Internal fault.	Ensure charger is in a well-ventilated area and vents are clear. Immediately disconnect and contact customer support.

SPECIFICATIONS

Brand	Mighty Max Battery
Model Number	ML-24V5A43
Input Voltage	240 Volts
Output Current	5 Amps
Output Voltage	24 Volts
Connector Type	3-pin XLR
Compatible Battery Types	Sealed Lead Acid, Gel Cell
Item Weight	2.5 Pounds
Color	Blue

WARRANTY AND SUPPORT

This Mighty Max Battery charger comes with a **1 Year Manufacturer's Warranty**. For warranty claims, technical support, or any questions regarding your product, please contact Mighty Max Battery customer service.

You can find contact information on the official Mighty Max Battery website: www.mightymaxbattery.com

ABOUT MIGHTY MAX BATTERY

Mighty Max Battery is dedicated to providing reliable power solutions. The following video highlights the general features and quality of Mighty Max batteries, which are compatible with this charger.

Your browser does not support the video tag.

Video: An overview of Mighty Max Battery products, showcasing features like shock resistance, easy recharging, various terminal types, spill-proof design, and wide application compatibility.
