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Mighty Max Battery ML-24V8A15

Mighty Max Battery 24 Volt 8 Amp Charger User Manual

Model: ML-24V8A15

PRODUCT OVERVIEW

The Mighty Max Battery 24 Volt 8 Amp Charger (Model ML-24V8A15) is designed to efficiently charge 24-volt sealed lead acid and gel cell batteries. This charger features an enhanced charging method to prevent over-charging and includes short circuit protection, ensuring a fully charged battery and safe operation.

Key features include:

- 24 Volts 8 Amp output with a 3-pin XLR connector.
- Enhanced charging method to prevent battery over-charge.
- Short circuit protection for safe and complete charging.
- Compatibility with both sealed lead acid and gel cell batteries.
- Three-color LED indication for monitoring charging progress.



Figure 1: Front view of the Mighty Max Battery 24 Volt 8 Amp Charger, showing the main unit, detachable power cord, and 3-pin XLR output connector.

SAFETY INFORMATION

Please read all safety instructions before using the charger. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Indoor Use Only:** This charger is designed for indoor use. Do not expose to rain or moisture.
- **Ventilation:** Ensure adequate ventilation around the charger during operation. Do not cover the charger.
- **Battery Compatibility:** Only use this charger with 24-volt sealed lead acid or gel cell batteries. Using it with other battery types may cause damage or injury.
- **Connection:** Always connect the charger to the battery first, then plug the charger into the power outlet. Disconnect from the power outlet before disconnecting from the battery.
- **Damaged Charger:** Do not operate the charger if it has been dropped, damaged, or if the power cord or connector is frayed. Contact customer support for assistance.
- **Children:** Keep the charger and battery out of reach of children.
- **Flammable Materials:** Do not charge batteries near flammable liquids or gases.

SETUP

Follow these steps to set up your Mighty Max Battery Charger:

1. **Unpack:** Carefully remove the charger from its packaging and inspect it for any signs of 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. **Connect Power Cord:** Insert the detachable power cord into the AC input port on the rear of the charger. Ensure it is firmly seated.



Figure 2: Rear view of the charger, highlighting the AC input port and the power switch.

4. **Connect to Battery:** Connect the 3-pin XLR output connector of the charger to the charging port on your 24-volt

battery or mobility device. Ensure the connection is secure.



Figure 3: Close-up view of the 3-pin XLR connector, which connects to the battery or device.

5. **Plug into Outlet:** Plug the charger's power cord into a standard 100-240V AC, 50/60Hz wall outlet.
6. **Power On:** Flip the power switch on the rear of the charger to the "ON" position.

OPERATING INSTRUCTIONS

Once the charger is properly set up and powered on, it will begin the charging process. The charger features a three-color LED status display to indicate the charging progress:



Figure 4: Top view of the charger, displaying the LED status indicators and warning label.

LED Status Display Guide

LED Color	Status	Description
Blue	Power Source OK	Indicates the charger is connected to a power source and ready.
Red	Charging (0% - 89%)	The battery is actively charging.
Green	Charging (90% - 99%)	The battery is nearing full charge.
Green Off	Fully Charged (100%)	The battery is fully charged, and the charger has entered float mode or stopped charging.

The charger is designed to automatically stop charging when the battery is full or after a 12-hour charging time to prevent overcharging. For optimal performance, it is recommended to turn off the charger for 1 minute before starting a new charging cycle.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your charger:

- **Cleaning:** Disconnect the charger from both the power outlet and the battery before cleaning. Use a soft, dry cloth to wipe the exterior. Do not use liquid cleaners or solvents.
- **Storage:** Store the charger in a cool, dry place when not in use. Keep it away from extreme temperatures and humidity.
- **Cable Care:** Avoid kinking or bending the power and output cables sharply. Do not pull the cables to disconnect the charger. Always grasp the plug or connector.
- **Inspection:** Periodically inspect the charger, cables, and connectors for any signs of wear, damage, or corrosion. If any damage is found, discontinue use and contact customer support.

TROUBLESHOOTING

If you encounter issues with your Mighty Max Battery Charger, refer to the following common problems and solutions:

Troubleshooting Guide

Problem	Possible Cause	Solution
Charger not turning on (No Blue LED)	No power from outlet; Power switch off; Loose power cord connection.	Check the wall outlet with another device; Ensure the power switch is ON; Re-seat the power cord firmly into the charger and outlet.
Charger connected but not charging (No Red/Green LED)	Battery not properly connected; Battery is already fully charged; Battery is severely discharged or faulty.	Ensure the XLR connector is fully inserted into the battery port; Check the battery's charge level; Consult a battery specialist if the battery is severely discharged or suspected faulty.

Problem	Possible Cause	Solution
Charging takes too long	Battery capacity is very high; Battery is old or degraded.	Charging time varies with battery capacity and discharge level. Allow up to 12 hours for a full charge. Consider replacing old batteries.
Charger gets hot during charging	Normal operation; Poor ventilation.	It is normal for the charger to warm up during use. Ensure it is placed in a well-ventilated area and not covered. If it becomes excessively hot or emits smoke/odor, disconnect immediately and contact support.

If the problem persists after trying these solutions, please contact Mighty Max Battery customer support.

SPECIFICATIONS

Attribute	Value
Model	ML-24V8A15
Brand	Mighty Max Battery
Input Voltage	100-240V AC, 50/60Hz
Output Voltage	24 Volts
Output Current	8 Amps
Wattage	128 watts
Connector Type	3-Pin XLR
Product Dimensions	Approximately 0.79 x 0.79 x 0.79 inches (from product data, though this seems incorrect for a charger, using provided data)
Item Weight	2.65 pounds
Color	Blue

Note: Product dimensions provided in source data (0.79 x 0.79 x 0.79 inches) may be a placeholder or incorrect. Please refer to the physical product for accurate measurements.

WARRANTY AND SUPPORT

Mighty Max Battery products are manufactured to high-quality standards. For specific warranty details regarding your ML-24V8A15 charger, please refer to the warranty information provided with your purchase or visit the official Mighty Max Battery website.

If you require technical assistance, have questions about product operation, or need to report an issue, please contact Mighty Max Battery customer support. Contact information can typically be found on the product packaging, the official brand website, or through your point of purchase.

For more information, you can visit the [Mighty Max Battery brand page on Amazon](#).

