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Mighty Max Battery ML-24V3A

Mighty Max Battery 24V 3Amp Charger Instruction Manual

For Pride Jazzy Select 6 and Select 6 Ultra Power Chairs

INTRODUCTION

This manual provides essential instructions for the safe and efficient operation of your Mighty Max Battery 24V 3Amp battery charger. This charger is designed to provide optimal charging for 24V battery systems, commonly found in power chairs such as the Pride Jazzy Select 6 and Select 6 Ultra. Please read this manual thoroughly before using the charger to ensure proper function and longevity of your batteries.

SAFETY INFORMATION

Always observe the following safety precautions when using the battery charger:

- **Indoor Use Only:** This charger is designed for indoor use in a dry environment. Do not expose it to rain, moisture, or extreme temperatures.
- **Ventilation:** Ensure adequate ventilation around the charger during operation. Do not cover the charger.
- **Electrical Safety:**
 - Do not operate the charger with a damaged cord or plug.
 - Avoid using extension cords unless absolutely necessary, and ensure they are properly rated for the charger's power requirements.
 - Always disconnect the power cord from the outlet before connecting or disconnecting the battery.
- **Battery Compatibility:** Use this charger only with 24V lead-acid batteries. Using it with incompatible battery types may cause damage or injury.
- **Connection:** Ensure the charger's 3-pin XLR connector is securely attached to the battery system's charging port.
- **Children and Pets:** Keep the charger and batteries out of reach of children and pets.
- **No User Serviceable Parts:** Do not attempt to open or repair the charger. Refer to qualified service personnel for any repairs.

PRODUCT FEATURES

The Mighty Max Battery 24V 3Amp charger offers the following key features:

- **24 Volts 3 Amp Output:** Provides efficient charging for 24V battery systems.
- **3-Pin XLR Connector:** Equipped with a standard 3-pin XLR connector for compatibility with many power chairs.
- **Three-Stage Charging Method:** Utilizes an advanced three-stage charging process to ensure a full charge while preventing over-charging, extending battery life.
- **Temperature Protection:** Incorporates built-in temperature protection to safeguard against overheating.
- **Short Circuit Protection:** Features short circuit protection for enhanced safety during operation.
- **Dual Color LED Indication:** A clear LED indicator displays the charging status (Red for Charging, Green for Fully Charged).
- **Faster Charging:** Delivers a 3 Amp charge rate, which is faster than 1A, 1.5A, 1.8A, or 2.0A chargers, reducing charging time.

PACKAGE CONTENTS

Verify that all items are present in the package:

- Mighty Max Battery 24V 3Amp Charger (Model: ML-24V3A)
- AC Power Cord

SETUP AND INSTALLATION

Follow these steps to set up your charger:

1. **Placement:** Place the charger on a stable, flat surface in a well-ventilated area, away from direct sunlight, heat sources, and moisture.
2. **Connect to Battery:** Locate the charging port on your Pride Jazzy Select 6 or Select 6 Ultra power chair. Insert the 3-pin XLR connector from the charger firmly into the charging port.
3. **Connect to Power:** Plug the AC power cord into the charger, then plug the other end of the AC power cord into a standard 100-240V AC wall outlet.
4. **Verify Connection:** Ensure all connections are secure before proceeding.



Image: The Mighty Max Battery 24V 3Amp charger showing its main components: the charger unit, the AC power cord, and the 3-pin XLR output connector.

OPERATING INSTRUCTIONS

Once the charger is properly connected, the charging process will begin automatically:

1. **Initiate Charging:** After connecting the charger to both the battery and the AC power outlet, the charger will automatically detect the battery's state and begin charging.

2. **Monitor LED Indicator:** Observe the dual-color LED indicator on the charger.
3. **Completion:** The charging process is complete when the LED indicator turns green.
4. **Disconnection:** Once charging is complete, first unplug the AC power cord from the wall outlet, then disconnect the 3-pin XLR connector from the power chair's charging port.

LED INDICATORS

The charger features a clear status display with a dual-color LED:

- **Red LED:** Indicates that the battery is currently charging.
- **Green LED:** Indicates that the battery is fully charged.



Image: Close-up of the Mighty Max Battery charger's status display, clearly indicating the meaning of the red (charging) and green (fully charged) LED lights.

MAINTENANCE

To ensure optimal performance and extend the life of your charger:

- **Cleaning:** Keep the charger clean and free from dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid cleaners.

- **Storage:** When not in use, store the charger in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Cable Inspection:** Periodically inspect the AC power cord and the XLR connector cable for any signs of damage, fraying, or exposed wires. Replace if damaged.

TROUBLESHOOTING

If you encounter issues with your charger, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Charger LED does not light up.	No power to the charger or faulty connection.	<ul style="list-style-type: none"> ◦ Ensure the AC power cord is securely plugged into both the wall outlet and the charger. ◦ Check if the wall outlet is functional by plugging in another device. ◦ Verify the 3-pin XLR connector is properly seated in the battery charging port.
Charger LED remains red for an extended period.	Battery is deeply discharged or has a high capacity, requiring more charging time.	<ul style="list-style-type: none"> ◦ Allow more time for the battery to charge. ◦ If the LED never turns green after a very long period (e.g., 24 hours), the battery may be faulty or severely discharged beyond recovery.
Charger LED immediately turns green.	Battery is already fully charged or has a fault.	<ul style="list-style-type: none"> ◦ Confirm the battery was indeed discharged before connecting. ◦ If the battery is not holding a charge, it may need replacement.
Charger feels hot during operation.	Normal operation, or insufficient ventilation.	<ul style="list-style-type: none"> ◦ A slight warmth is normal. ◦ Ensure the charger is in a well-ventilated area and not covered. ◦ If it's excessively hot to touch, disconnect immediately and contact support.

SPECIFICATIONS

Technical specifications for the Mighty Max Battery 24V 3Amp Charger (Model: ML-24V3A):

- **Model:** ML-24V3A
- **Input Voltage:** 100-240VAC, 50/60Hz 1.5A
- **Output Voltage:** DC 24V
- **Output Current:** 3 Amp
- **Connector Type:** 3-Pin XLR
- **Charger Unit Dimensions:** Approximately 6.13" (Width) x 2.44" (Height)
- **Total Length (including cables):** Approximately 47.5 inches
- **Item Weight:** 1.7 Pounds

- **Charging Method:** 3-Stage (Constant Current, Constant Voltage, Float)
- **Protections:** Over-temperature, Short Circuit, Over-charging

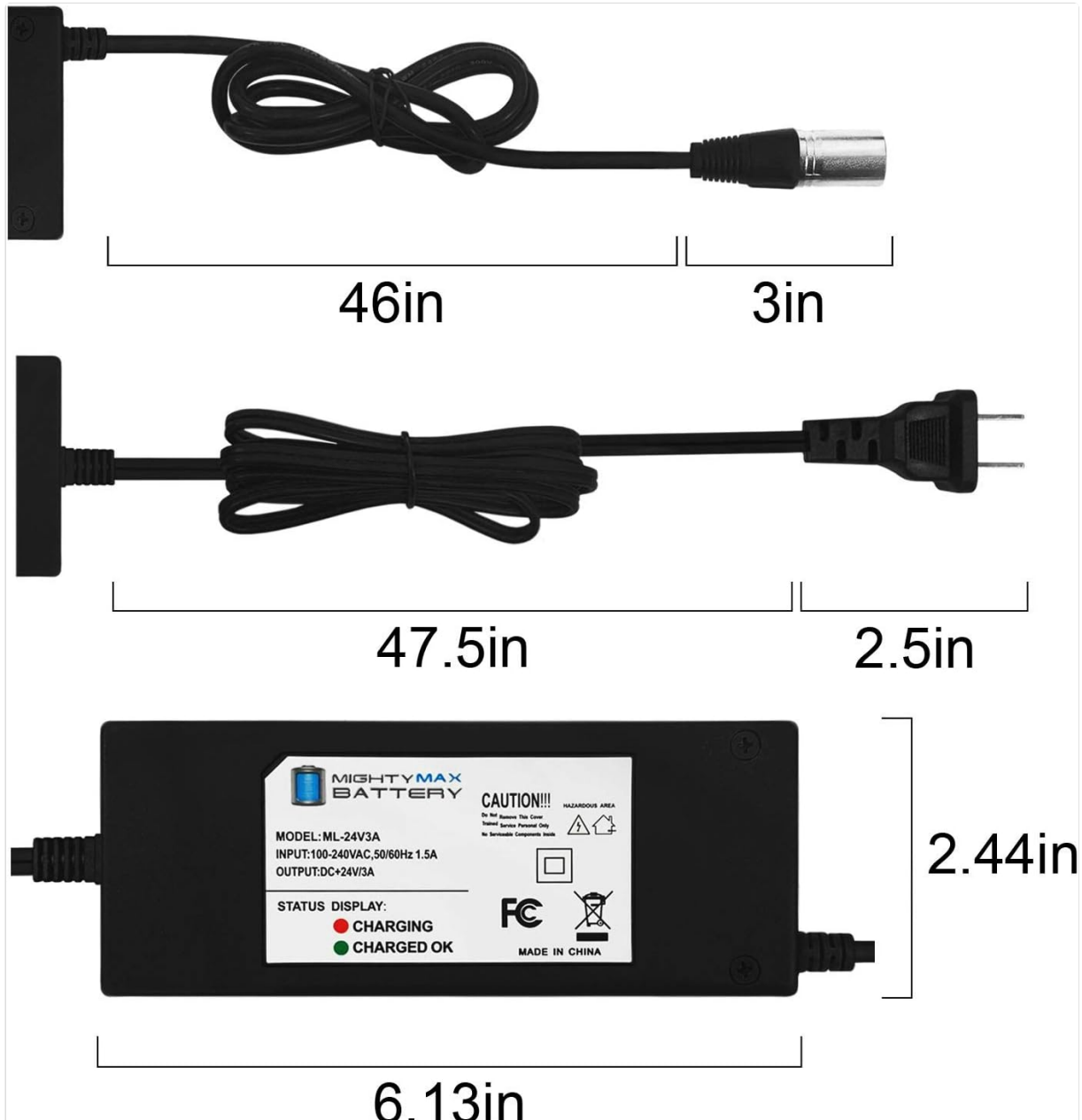


Image: Diagram showing the dimensions of the charger unit (approximately 6.13 inches wide by 2.44 inches high) and the lengths of its connected cables, including the AC power cord and the XLR output cable.



Image: The product label on the charger, displaying the model number ML-24V3A, input voltage (100-240VAC, 50/60Hz 1.5A), and output (DC+24V/3A), along with various safety warnings and certifications.

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the manufacturer's official website or contact their customer service. Keep your purchase receipt as proof of purchase.