



[Manuals.plus](#) /

- › [Mighty Max Battery](#) /
- › Mighty Max Battery ML4D14 12V 200Ah SLA AGM Battery User Manual

Mighty Max Battery ML4D14

Mighty Max Battery ML4D14 12V 200Ah SLA AGM Battery User Manual

Model: ML4D14 | Brand: Mighty Max Battery

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your Mighty Max Battery ML4D14 12V 200Ah Sealed Lead Acid (SLA) Absorbent Glass Mat (AGM) battery. Please read these instructions thoroughly before installation and operation to ensure optimal performance and longevity of your battery.



Image 1.1: Mighty Max Battery ML4D14 12V 200Ah SLA AGM Battery. This image displays the exterior of the black, rectangular battery unit with its terminals visible on top.

2. KEY FEATURES

- **12V 200Ah SLA AGM Technology:** This battery utilizes Sealed Lead Acid (SLA) technology with Absorbent Glass Mat (AGM) separators, providing a 12-volt output and 200 Amp-hour capacity. It is UL Certified for safety and quality.
- **Maintenance-Free Design:** The sealed, spill-proof construction eliminates the need for electrolyte refilling, offering a hassle-free experience.
- **High Performance:** Engineered for high discharge rates, wide operating temperatures, and excellent deep discharge recovery.
- **Durability:** Designed to resist shocks and vibrations, ensuring long-lasting performance in various conditions.
- **Flexible Mounting:** Can be mounted in any position or orientation without risk of leakage.

CONFIGURATION

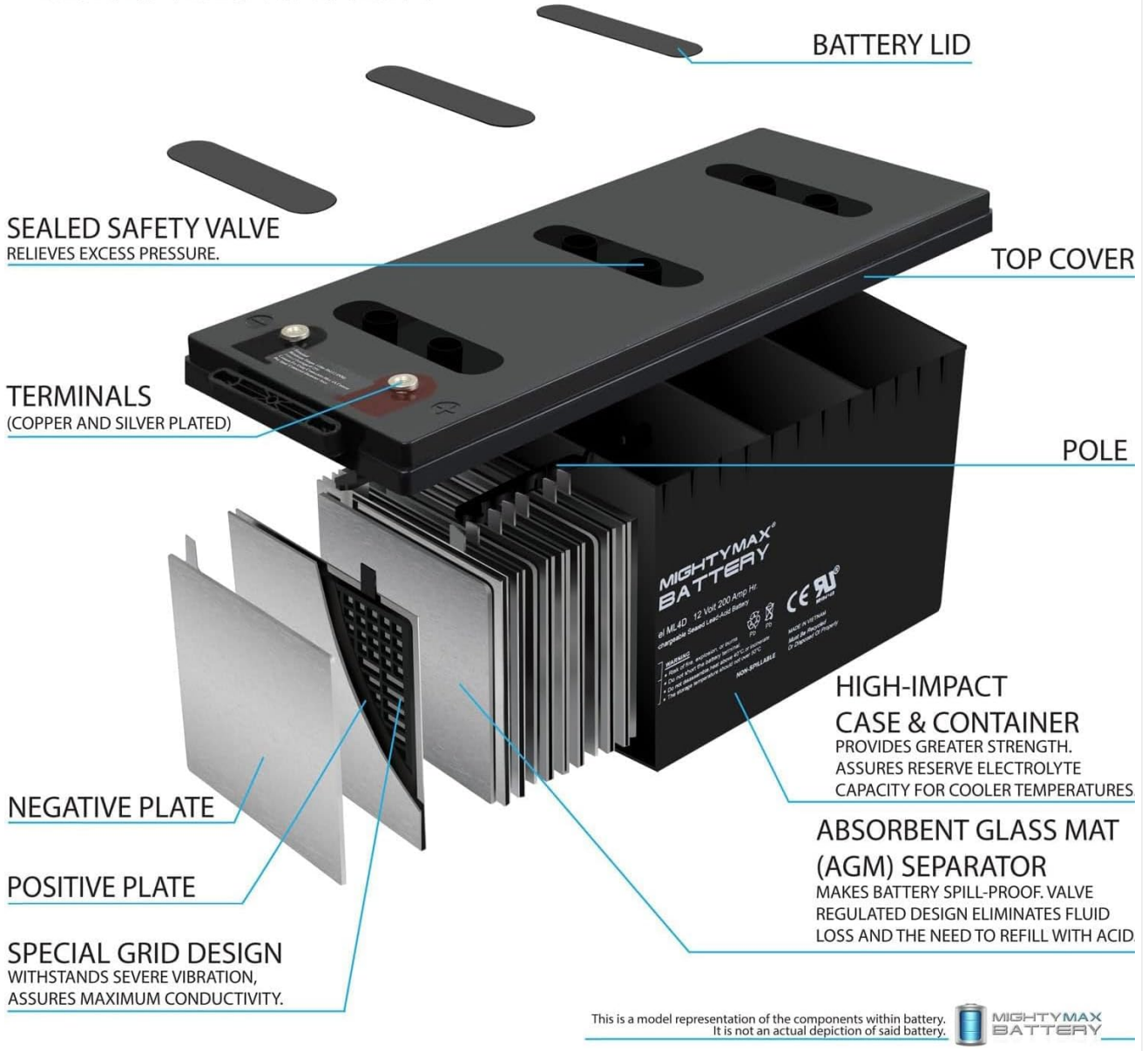


Image 2.1: Internal Configuration of an AGM Battery. This diagram illustrates the internal components of an AGM battery, including positive and negative plates, AGM separators, and a sealed safety valve.



Image 2.2: Close-up of Battery Terminals. This image shows the top of the battery with its positive (red) and negative (black) terminals, designed for secure connections.

3. SAFETY WARNINGS

Failure to follow these safety instructions may result in serious injury or property damage.

- **Risk of Fire, Explosion, or Burns:** Do not short circuit the battery terminals. Do not disassemble, heat above 60°C (140°F), or incinerate.
- **Ventilation:** Although sealed, ensure adequate ventilation when charging to prevent gas accumulation.
- **Handling:** Batteries are heavy. Use appropriate lifting techniques and equipment to prevent injury.
- **Eye Protection:** Always wear eye protection when working with batteries.
- **Storage:** Store in a cool, dry place away from direct sunlight and heat sources. The storage temperature should not exceed 60°C (140°F).
- **Recycling:** This battery contains lead and must be recycled or disposed of properly. Do not dispose of with household waste.

WE ARE A U.S. COMPANY — AND PROUD OF IT.



Headquartered in New Jersey and built by a team of hard-working Americans, our roots run deep across the country. From coast to coast, we create jobs and power up communities every step of the way.

POWERING AMERICAN GROWTH

From logistics to support, our continued investments in operations helps us deliver fast and reliable power in the US and beyond.



AMPED-UP QUALITY

U.S. based quality control and packaging production ensures every battery is tested, protected, and powered to the max.

While our products are made abroad, our U.S.-based team carefully oversees testing, safety, quality, and packaging to ensure they meet the high standards our customers expect.



Proudly U.S.-Based | Globally Manufactured | Tested to U.S. Standards

Are You Powered To The Max?



Image 3.1: Battery with Warning Labels. This image shows the battery casing with clearly visible warning symbols and text regarding safe handling and disposal.

4. SETUP AND INSTALLATION

The ML4D14 battery is designed for ease of installation. Ensure you have the correct tools and follow these steps:

1. **Inspect the Battery:** Before installation, visually inspect the battery for any signs of damage, cracks, or leaks.
2. **Prepare the Installation Area:** Ensure the battery compartment is clean, dry, and free from corrosive materials.
3. **Connect Terminals:** Connect the positive (+) terminal of the battery to the positive cable of your application. Then, connect the negative (-) terminal of the battery to the negative cable. Ensure all connections are tight and secure to prevent arcing and power loss.
4. **Secure the Battery:** Use appropriate straps or clamps to secure the battery in its compartment to prevent movement during operation, which could lead to damage or short circuits.

Note: This listing is for the battery and screws only. No wire harness or mounting accessories are included.

Your browser does not support the video tag.

Video 4.1: Mighty Max Battery Installation Guide. This video demonstrates the general installation process for Mighty Max batteries in various applications, including connecting terminals and securing the battery.

5. OPERATING INSTRUCTIONS

Your Mighty Max ML4D14 battery is designed for reliable power delivery in various applications, including power tools, solar systems, RVs, and marine uses. Once properly installed, the battery will provide consistent power.

- **Initial Charge:** While batteries typically arrive partially charged, it is recommended to fully charge the battery before its first use to maximize its lifespan and performance.
- **Charging:** Use a charger specifically designed for 12V SLA/AGM batteries. Overcharging or undercharging can reduce battery life. Refer to the charger's manual for specific instructions.
- **Discharge:** Avoid deep discharges below 10.5V to prolong battery life. While AGM batteries have good deep discharge recovery, consistent deep cycling can reduce overall capacity.

6. MAINTENANCE

The Mighty Max ML4D14 is a maintenance-free battery, meaning it does not require water additions or electrolyte checks. However, some general care practices will help ensure its longevity:

- **Keep Clean:** Regularly clean the battery terminals and casing to remove dirt, dust, and corrosion. Use a damp cloth and avoid harsh chemicals.
- **Check Connections:** Periodically inspect terminal connections to ensure they remain tight and free from corrosion. Loose connections can cause resistance, heat, and power loss.
- **Temperature Control:** Operate and store the battery within recommended temperature ranges. Extreme temperatures can negatively impact battery performance and lifespan.
- **Regular Charging:** If the battery is not in regular use, perform a maintenance charge every 3-6 months to prevent self-discharge and maintain optimal capacity.

7. TROUBLESHOOTING

If you encounter issues with your Mighty Max Battery, consider the following common troubleshooting steps:

Problem	Possible Cause	Solution
Battery not holding charge	Undercharging, overcharging, sulfation, or end of life.	Ensure proper charging voltage and current. Test with a reliable battery tester. If old, consider replacement.
Low power output	Loose or corroded connections, partially discharged battery.	Clean and tighten all terminal connections. Fully charge the battery.
Battery overheating during charge	Faulty charger, overcharging, internal short circuit.	Disconnect charger immediately. Check charger specifications. Consult a professional if issue persists.
Shortened battery life	Consistent deep discharges, improper charging, extreme operating temperatures.	Avoid deep discharges. Use appropriate charging methods. Maintain optimal operating temperatures.

8. SPECIFICATIONS

The following table details the technical specifications for the Mighty Max Battery ML4D14 12V 200Ah SLA AGM battery:

Specification	Value
Model Number	ML4D14
Voltage	12 Volts
Battery Capacity	200 Amp Hours
Battery Cell Composition	Lead Acid (SLA/AGM)
Dimensions (L x W x H)	20.87 x 9.45 x 8.74 inches (53.00 x 24.00 x 22.20 cm)
Item Weight	114 Pounds (51.7 kg)
Reusability	Rechargeable
Manufacturer	Mighty Max Battery
UPC	785123712176



Image 8.1: Mighty Max Battery ML4D14 Dimensions. This image provides a visual representation of the battery's length, width, and height in both inches and centimeters.

9. WARRANTY AND SUPPORT

Your Mighty Max Battery ML4D14 comes with a **Full One Year Manufacturer's Warranty**. This warranty covers defects in materials and workmanship under normal use and service.

For warranty claims, technical support, or any questions regarding your battery, please contact Mighty Max Battery customer service directly. Refer to the product packaging or the official Mighty Max Battery website for the most current contact information.

Please retain your proof of purchase for warranty validation.