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Mighty Max Battery ML12-12F2MP1038262

Mighty Max Battery ML12-12F2 12V 12Ah SLA Battery User Manual

Model: ML12-12F2MP1038262

1. Introduction

This manual provides essential information for the safe and effective use of your Mighty Max Battery ML12-12F2 12V 12Ah Sealed Lead Acid (SLA) battery. This battery is a rechargeable, maintenance-free unit designed for various applications, including compatibility with Razor MX500 and MX650 models. It features an F2 terminal type and is UL Certified.

The ML12-12F2 is an Absorbent Glass Mat (AGM) spill-proof battery, characterized by a high discharge rate, wide operating temperature range, long service life, and deep discharge recovery capabilities. It is designed to be mounted in any position and resists shocks and vibration, ensuring high performance in diverse temperature conditions.

2. Safety Information

Always read and understand all safety instructions before installing or operating the battery. Failure to follow these instructions may result in electric shock, fire, serious injury, or death.

- **Risk of fire, explosion, or burns:** Do not disassemble, heat above 45°C (113°F), or incinerate.
- **Do not short circuit:** Avoid connecting the positive and negative terminals directly.
- **Proper ventilation:** Although sealed, ensure adequate ventilation during charging to prevent gas accumulation.
- **Eye and skin protection:** Wear appropriate personal protective equipment when handling batteries.
- **Disposal:** Must be recycled. Do not dispose of improperly.

3. Setup and Installation

The Mighty Max ML12-12F2 battery is designed for versatile installation. It can be mounted in any position, offering flexibility for various applications. Ensure the battery is securely fastened to prevent movement during operation.

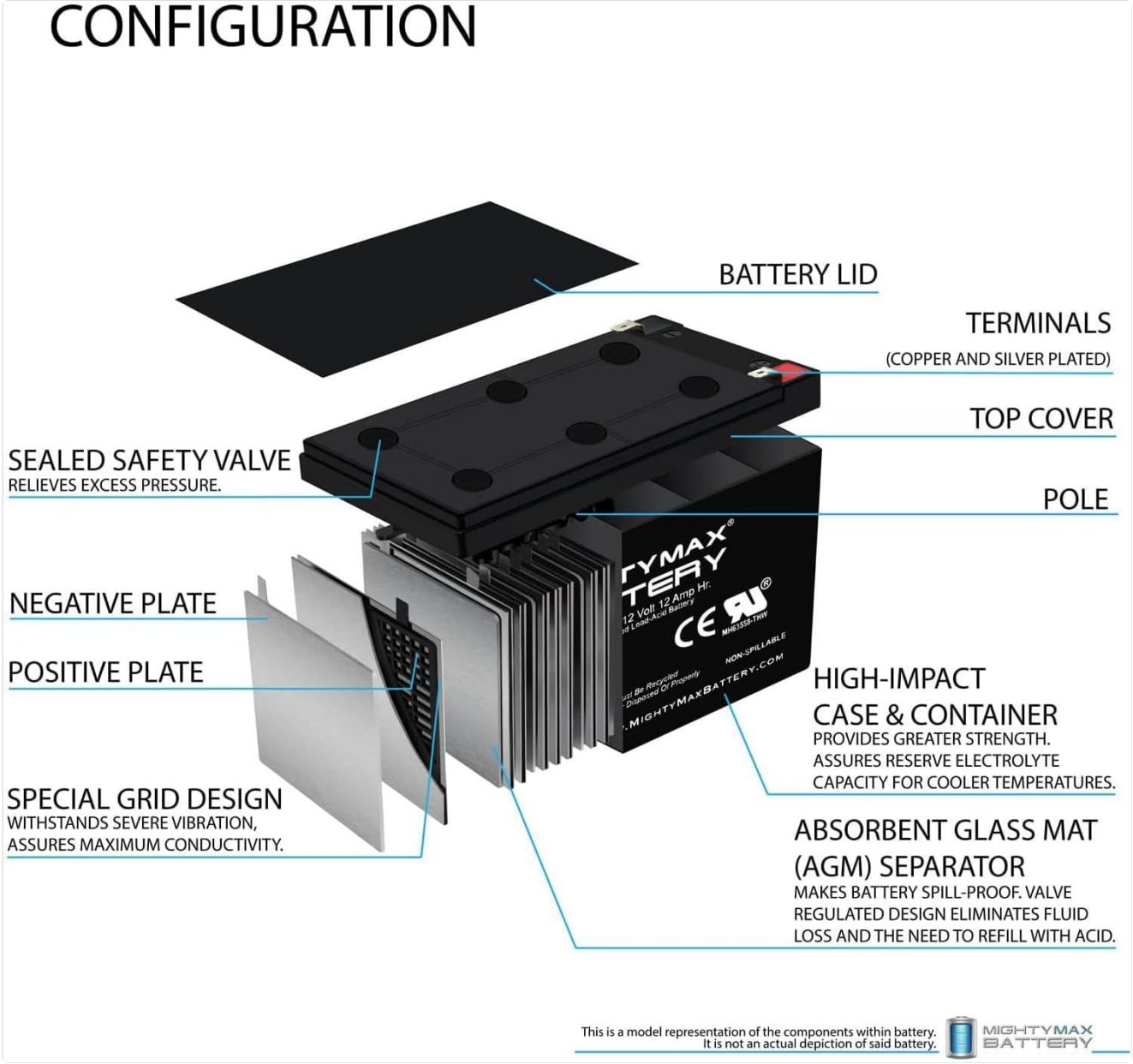


Figure 3.1: Exploded view illustrating the internal components of the Mighty Max ML12-12F2 battery, including the sealed safety valve, terminals, plates, and AGM separator.

Terminal Connection: The battery features F2 terminals. Ensure that the connectors from your device are compatible and securely attached to the battery terminals. Always connect the positive (+) terminal first, then the negative (-) terminal. When disconnecting, remove the negative (-) terminal first.



Figure 3.2: Close-up view of the F2 terminal on the Mighty Max battery, showing the spade connector type for secure electrical connections.

Important Note: This listing is for the battery only. No wire harness or mounting accessories are included. Please use appropriate accessories for your specific application.

4. Operating Instructions

The Mighty Max ML12-12F2 battery is designed for reliable performance across a wide range of applications. It delivers consistent power and is suitable for both float and cyclic applications.
Charging: Use a compatible 12V battery charger designed for Sealed Lead Acid (SLA) or AGM batteries. Refer to the technical specifications for recommended charging voltages and currents.

- **Float Use:** 13.5V - 13.8V (25°C)
- **Cycle Use:** 14.5V - 14.9V (25°C)
- **Maximum Charging Current:** 3.6A

Avoid overcharging or deep discharging the battery, as this can reduce its lifespan. The battery is designed for deep

discharge recovery, but consistent deep discharges should be avoided for optimal longevity.

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Video 4.1: An overview of Mighty Max Battery products, highlighting features such as mounting versatility and maintenance-free design, relevant to the ML12-12F2 battery.

5. Maintenance

The Mighty Max ML12-12F2 is a Sealed Lead Acid (SLA) / Absorbent Glass Mat (AGM) battery, which means it is a **maintenance-free** battery. This design eliminates the need for water additions or electrolyte level checks.

- **Cleaning:** Keep the battery terminals and casing clean and free from dirt or corrosion. Use a dry cloth to wipe down the battery. If corrosion is present on terminals, clean with a wire brush and a mixture of baking soda and water, then rinse and dry thoroughly.
- **Storage:** If storing the battery for an extended period, ensure it is fully charged and store it in a cool, dry place. Recharge the battery every 3-6 months to prevent self-discharge and maintain optimal performance.
- **Inspection:** Periodically inspect the battery for any signs of physical damage, swelling, or leaks. If any damage is observed, discontinue use and replace the battery.

6. Troubleshooting

If you encounter issues with your Mighty Max ML12-12F2 battery, consider the following common troubleshooting steps:

- **Battery Not Holding Charge:**
  - Ensure your charger is functioning correctly and is compatible with SLA/AGM batteries.
  - Check for proper terminal connections; loose connections can prevent effective charging.
  - Verify the battery is not excessively old or has undergone too many deep discharge cycles, which can reduce capacity.
- **Low Power Output:**
  - Confirm the battery is fully charged before use.
  - Inspect all connections for corrosion or looseness.
  - Ensure the application's power requirements do not exceed the battery's capacity or discharge rate.
- **Battery Swelling or Leaking:**
  - Immediately discontinue use. This indicates a serious internal issue.
  - Contact customer support for assistance and proper disposal instructions.

For persistent issues, refer to the warranty section or contact Mighty Max Battery customer support.

7. Specifications



Figure 7.1: Mighty Max ML12-12F2 battery showing key dimensions in inches and centimeters.

Specification	Value
Model Number	ML12-12F2MP1038262
Voltage	12 Volts
Battery Capacity	12 Amp-hours (Ah)
Amperage	12 A
Battery Cell Composition	Lead Acid (SLA/AGM)
Terminal Type	F2

Specification	Value
Dimensions (L x W x H)	5.94 x 3.86 x 3.98 inches (15.08 x 9.8 x 10.11 cm)
Item Weight	8.4 pounds (approx. 3.8 kg)
Reusability	Rechargeable
Certifications	UL Certified
Recommended Uses	Power Tool, Razor MX500, MX650, UPS, Emergency Lighting, etc.

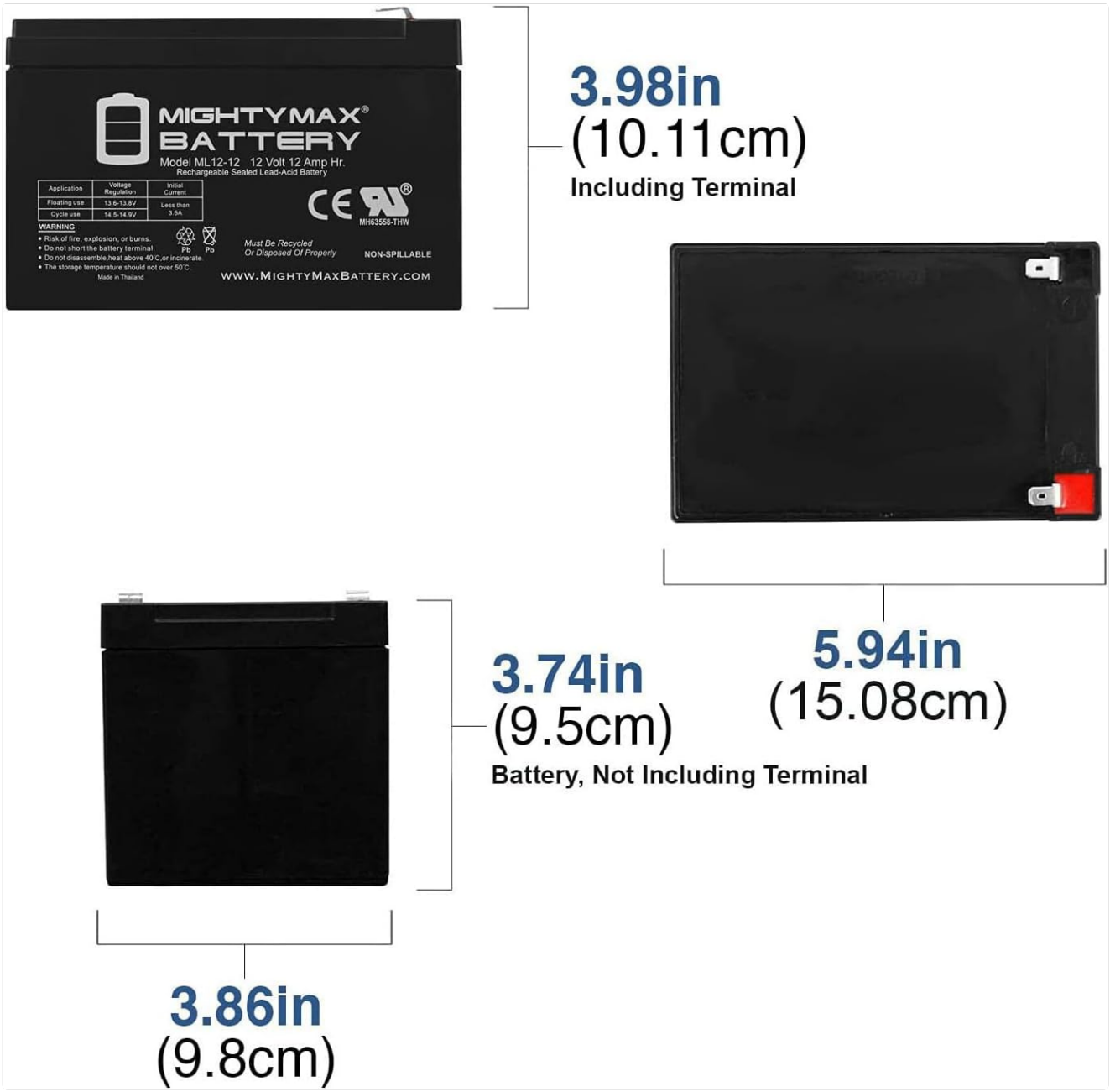
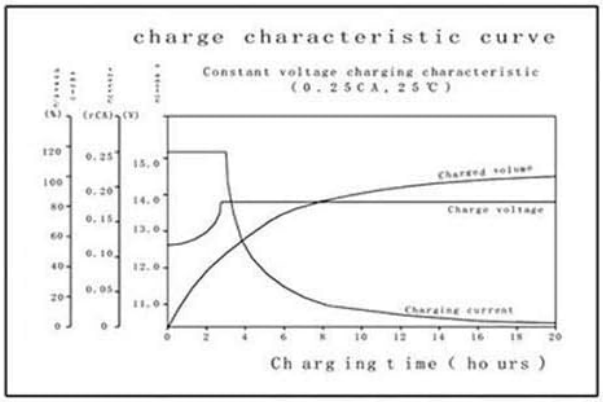
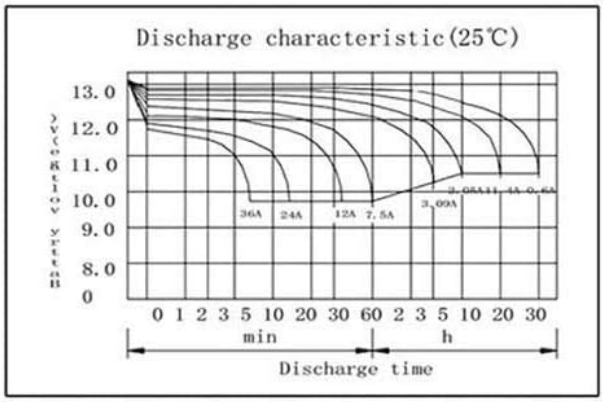


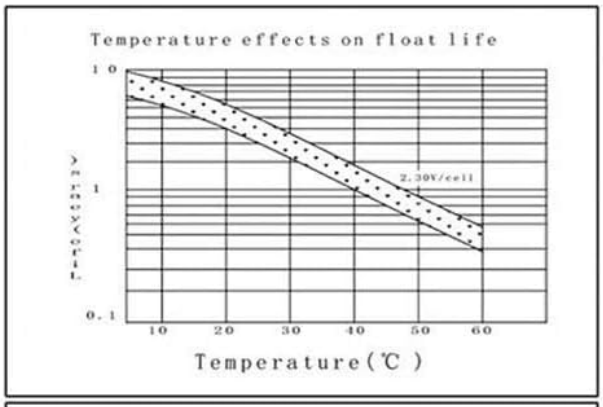
Figure 7.2: Technical Data Sheet Page 1, detailing battery construction, general features, and performance characteristics.

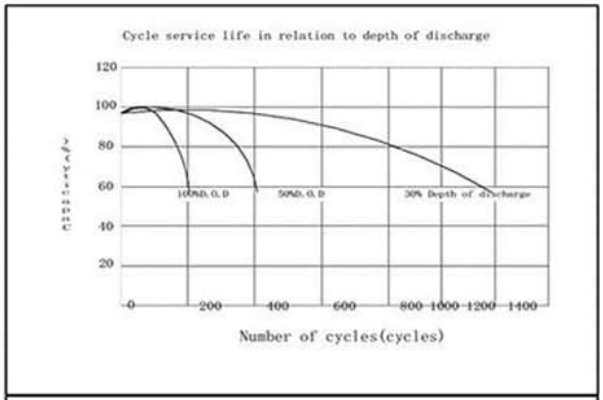
MIGHTYMAX BATTERY

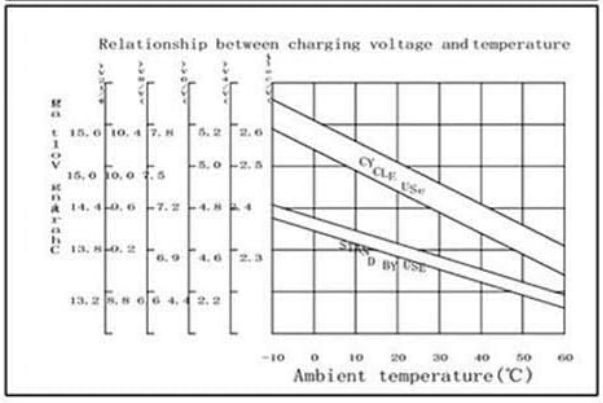
ML12-12 *(12V12Ah)*

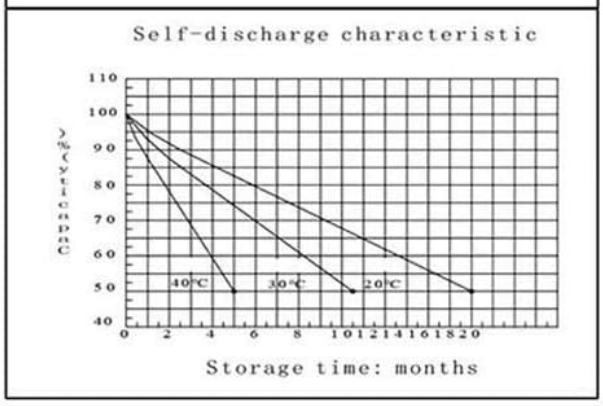


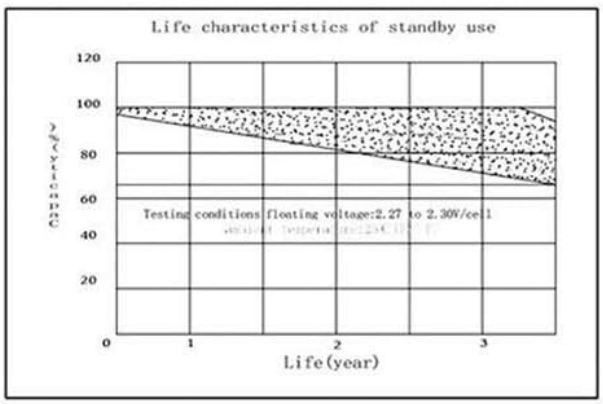












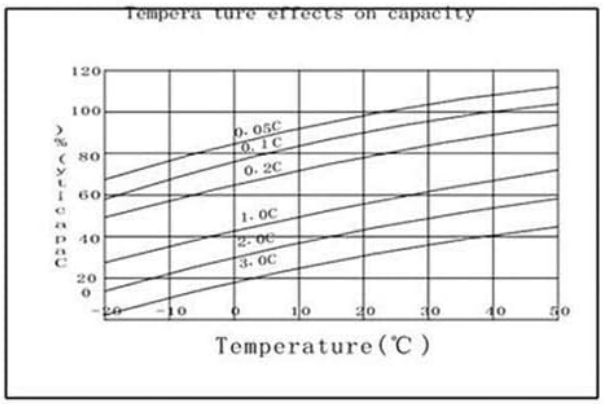


Figure 7.3: Technical Data Sheet Page 2, showing charge characteristics, discharge characteristics, temperature effects, and cycle life curves.

8. Warranty Information

The Mighty Max Battery ML12-12F2 comes with a**Full One Year Manufacturer's Warranty**. This warranty covers defects in materials and workmanship under normal use and service.
Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, or to initiate a claim, please contact Mighty Max Battery customer support.

9. Customer Support

For any questions, technical assistance, or support regarding your Mighty Max Battery ML12-12F2, please contact Mighty Max Battery directly.
Manufacturer: Mighty Max Battery
Please visit the official Mighty Max Battery website or refer to your purchase documentation for the most current contact information.

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