

Mighty Max Battery ML18-12GEL

Mighty Max Battery ML18-12 GEL 12V 18AH Battery User Manual

Model: ML18-12GEL | Brand: Mighty Max Battery

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your Mighty Max Battery ML18-12 GEL 12 Volt 18 AH rechargeable battery. Please read these instructions carefully before installation, operation, or maintenance to ensure optimal performance and longevity of your battery.

The ML18-12GEL is a 12V 18AH GEL rechargeable, maintenance-free battery designed for reliable and long-lasting power. It features a slower self-discharge rate compared to traditional AGM batteries, ensuring it retains its charge longer when not in use. Engineered with a thick, non-spillable gel paste, this battery offers enhanced safety by minimizing leak risks and reducing harmful fumes. Its robust design allows for consistent performance in extreme temperatures and provides resilience against vibrations and shocks, making it suitable for demanding environments.

2. SAFETY INFORMATION

Always observe the following safety precautions when handling and operating the battery:

- **Non-Spillable Design:** The GEL battery features a non-spillable design, reducing the risk of acid spills. However, always handle with care.
- **Avoid Short Circuits:** Do not short-circuit the battery terminals. This can cause severe damage to the battery and pose a fire hazard.
- **Ventilation:** Although GEL batteries produce minimal gas, ensure adequate ventilation during charging to prevent gas accumulation.
- **Temperature:** Operate and store the battery within recommended temperature ranges to prevent damage and ensure optimal performance. Avoid extreme heat or cold.
- **Protective Gear:** Wear appropriate personal protective equipment, such as safety glasses and gloves, when handling batteries.
- **Disposal:** Do not dispose of batteries in fire. Recycle used batteries according to local regulations.
- **Children:** Keep batteries out of reach of children.

3. PRODUCT FEATURES

- **Model:** ML18-12 GEL
- **Voltage:** 12 Volt
- **Capacity:** 18 Ampere-Hour (AH)
- **Battery Type:** GEL (Gel Electrolyte)
- **Terminal Type:** Internal Thread (INT) Terminal
- **Maintenance-Free:** Designed for hassle-free operation without the need for electrolyte top-ups.
- **Low Self-Discharge:** Retains charge longer when not in use, providing consistent power.
- **Extreme Temperature Durability:** Provides reliable performance across a wide range of temperatures.
- **Vibration and Shock Resistance:** Built to withstand demanding environments.
- **Mounting Versatility:** Can be mounted in any position or orientation.

GEL SERIES



Key Highlights:



Unmatched Performance:

Our GEL batteries hold their charge longer with a slower self-discharge rate, ensuring consistent, long-lasting power.



Durability:

Mighty Max GEL batteries deliver reliable performance in extreme temperatures, ensuring consistent power across a wide range of climates.



Rugged and Safe by Design:

Our GEL batteries feature a thick, non-spillable gel paste that minimizes leak risks and enhances durability, making them ideal for rugged environments.



Customer Satisfaction:

With a proven commitment to excellence, Mighty Max batteries will not only meet, but exceed your expectations.



Image: Key highlights of the Mighty Max GEL Series batteries, emphasizing performance, durability, rugged design, and safety.

4. SETUP AND INSTALLATION

Follow these steps for proper setup and installation of your Mighty Max GEL battery:

1. **Unpacking:** Carefully remove the battery from its packaging. Inspect for any visible damage.
2. **Initial Charge:** While GEL batteries typically arrive charged, it is recommended to fully charge the battery before its first use to ensure maximum capacity and lifespan. Refer to the 'Operating Instructions' section for charging guidelines.
3. **Terminal Connection:** The ML18-12GEL uses Internal Thread (INT) terminals. Ensure the terminals on the battery and the connecting cables are clean and free of corrosion. Connect the positive (+) cable (usually red) to the positive terminal and the negative (-) cable (usually black) to the negative terminal. Secure connections firmly but do not overtighten.
4. **Mounting:** This GEL battery can be mounted in any position (upright, sideways, or inverted) due to its non-spillable design. Ensure the battery is securely fastened to prevent movement or vibration during operation.



Image: The Mighty Max Battery ML18-12 GEL 12V 18AH battery, showing its blue casing and top terminals.

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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: Close-up view of the internal thread (INT) terminal on the Mighty Max Battery, showing the screw-in connection point.

Your browser does not support the video tag.

Video: An overview of the Mighty Max Battery GEL Series, detailing its construction and benefits. This video provides visual context for the battery's features and internal components.

5. OPERATING INSTRUCTIONS

Proper charging and discharge practices are crucial for the lifespan of your GEL battery:

- **Charging Voltage:** For cycle use, charge between 14.5-14.9V. For float use (standby applications), charge between 13.6-13.8V.
- **Charging Current:** The maximum charging current for this 18AH battery is 5.4A. Avoid exceeding this current to prevent damage.
- **Discharge:** Avoid deep discharges below 10.5V to prolong battery life. While GEL batteries are designed for deep cycle applications, consistent over-discharging can reduce overall capacity.
- **Temperature Compensation:** Charging voltage may need adjustment based on ambient temperature. Consult a

professional if operating in extreme temperature conditions.

6. MAINTENANCE

The Mighty Max GEL battery is maintenance-free, but following these guidelines will help ensure its longevity:

- **Regular Inspection:** Periodically check the battery casing for any signs of damage, cracks, or swelling.
- **Terminal Cleaning:** Keep terminals clean and free of corrosion. Use a wire brush and a mixture of baking soda and water if corrosion is present, then rinse with clean water and dry thoroughly.
- **Storage:** If storing the battery for an extended period, ensure it is fully charged. Store in a cool, dry place, ideally between 20°C and 25°C (68°F and 77°F). Recharge every 3-6 months to prevent sulfation and maintain charge.
- **Avoid Overcharging/Undercharging:** Use a charger specifically designed for GEL batteries to prevent overcharging, which can damage the battery, or undercharging, which can lead to sulfation.

7. TROUBLESHOOTING

If you encounter issues with your battery, consider the following common problems and solutions:

- **Battery Not Holding Charge:**
 - **Check Charger:** Ensure your charger is functioning correctly and is compatible with GEL batteries.
 - **Check Connections:** Verify that all terminal connections are clean and secure. Loose connections can lead to poor charging.
 - **Age of Battery:** Batteries have a finite lifespan. If the battery is old, it may be reaching the end of its service life.
 - **Over-Discharge:** Repeated deep discharges can permanently reduce battery capacity.
- **Low Voltage Output:**
 - **Charge Level:** The battery may simply need recharging.
 - **Load:** Ensure the load connected to the battery is not exceeding its capacity.
 - **Internal Resistance:** High internal resistance can indicate an aging or damaged battery.
- **Swelling or Leakage:**
 - **Discontinue Use:** If you observe swelling or any signs of leakage, immediately discontinue use and safely disconnect the battery.
 - **Contact Support:** This indicates a serious issue. Contact Mighty Max Battery customer support for assistance.

8. SPECIFICATIONS

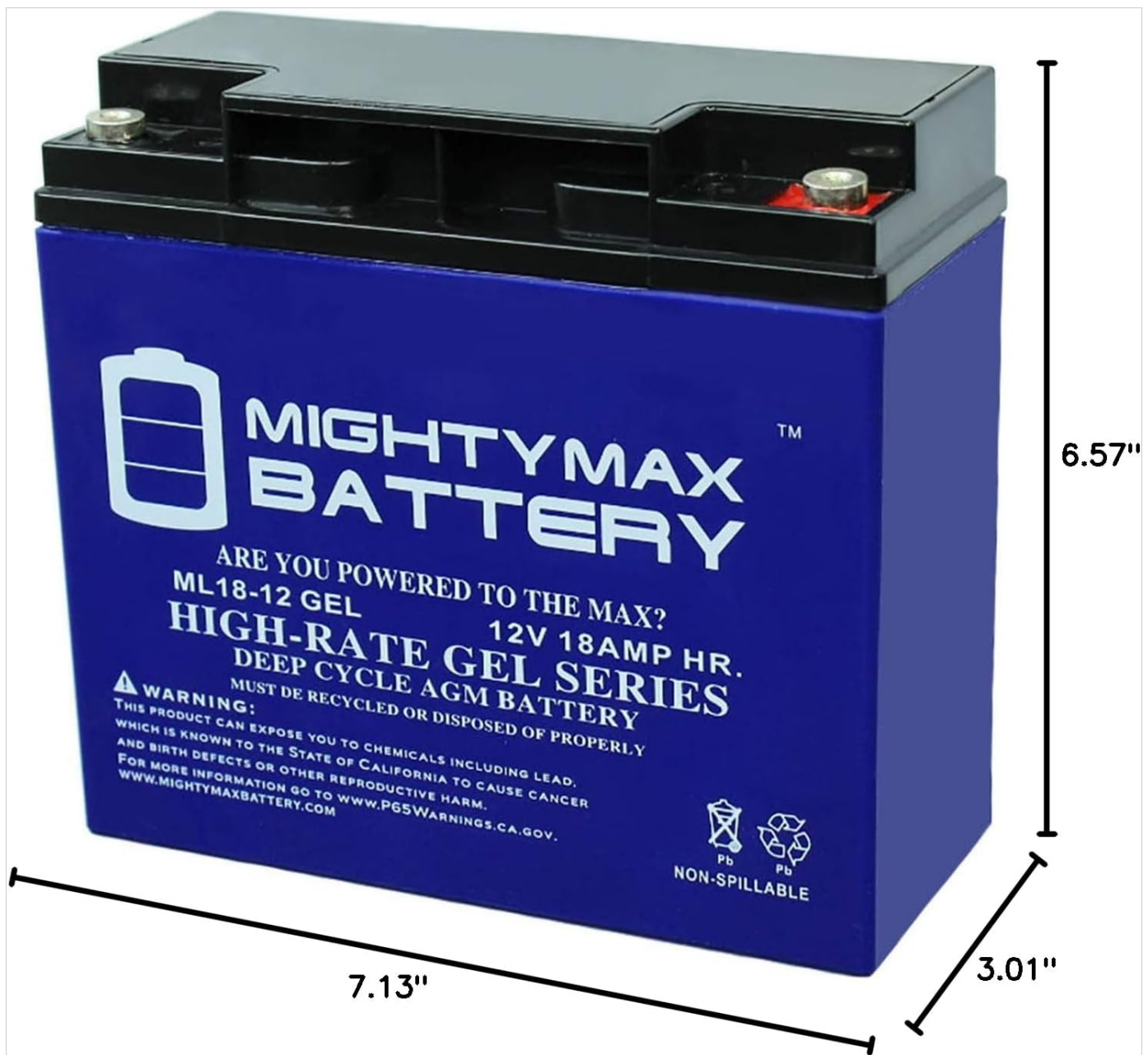


Image: Dimensional drawing of the Mighty Max Battery ML18-12 GEL, showing its length, width, and height.

Specification	Value
Brand	Mighty Max Battery
Model Number	ML18-12GEL
Voltage	12 volts
Battery Capacity	18 amp_hours
Battery Cell Composition	Lead Acid (GEL Type)
Terminal Type	Internal Thread (INT) Terminal
Product Dimensions (D x W x H)	7"D x 2.87"W x 6.5"H (17.78cm x 7.30cm x 16.51cm)
Number Of Cells	6
Resistance	144 ohm

Specification	Value
Manufacturer	Mighty Max Battery
UPC	850005902300



MIGHTYMAX BATTERY

Mighty Max Battery

ML18-12 GEL - 12V 18AH

- ML18-12GEL INT 12V 18AH Battery
- Dimensions: 7.00 x 2.87 x 6.50 inches
- Factory activated GEL battery
- Rechargeable battery mounted in any position

Are You Powered To The Max?



MIGHTYMAX®
Model ML18-12 GEL 12 Volt 18 Amp Hr.
HIGH-RATE GEL SERIES
DEEP CYCLE GEL BATTERY

Application:	Voltage Regulation	Watt Capacity
Fluorescent	13.5-17.0V	Less than 5.4A
Cycle use	14.5-14.9V	

WARNING

- Risk of fire, explosion, or burns.
- Do not short the battery terminal.
- Do not discharge heat above 40°C or inoperative.
- The storage temperature should not over 50°C.

Made in Thailand

Must Be Recycled Or Disposed Of Properly NON-SPILLABLE

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Image: Detailed specification sheet for the ML18-12 GEL battery, including capacity, dimensions, and electrical characteristics.

9. WARRANTY AND SUPPORT

Manufacturer Warranty: This Mighty Max Battery ML18-12 GEL battery comes with a 1-year manufacturer warranty. For warranty claims, technical support, or any questions regarding your battery, please contact Mighty Max Battery customer service. Refer to the official Mighty Max Battery website for the most current contact information and support resources.

Online Resources: For additional information, FAQs, and product guides, visit the [Mighty Max Battery official website](#).

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question