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› Mighty Max Battery YTZ10S 12V 8.6AH Battery User Manual

Mighty Max Battery YTZ10S61

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Model: YTZ10S61

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your Mighty Max Battery YTZ10S 12V 8.6AH Sealed Lead Acid (SLA) battery. Please read these instructions carefully before installation and operation to ensure optimal performance and longevity of your battery.

The Mighty Max YTZ10S battery is a 12V 8.6AH 190 Cold Cranking Amps (CCA) Sealed Lead Acid (SLA) battery designed for various applications including ATVs, motorcycles, scooters, and UTVs. Its spill-proof AGM design allows for mounting in any position, offering versatility and reliable power.

A **POWERFUL** EXPERIENCE FOR THE GREAT OUTDOORS!



Figure 1: Mighty Max Battery applications for various power sports vehicles.

2. PRODUCT FEATURES

- **Model:** YTZ10S, 12V 8.6AH, 190 Cold Cranking Amps (CCA) Sealed Lead Acid (SLA) Battery.
- **Dimensions:** 5.90 inches (L) x 3.42 inches (W) x 3.74 inches (H).
- **Polarity:** Positive terminal on the left, negative terminal on the right.
- **Construction:** SLA / AGM (Absorbent Glass Mat) spill-proof battery.
- **Performance:** High discharge rate, wide operating temperatures, long service life, and deep discharge recovery.
- **Mounting:** Rechargeable battery that can be mounted in any position.
- **Durability:** Resists shocks and vibration.
- **Maintenance:** Maintenance-free design.

CONFIGURATION

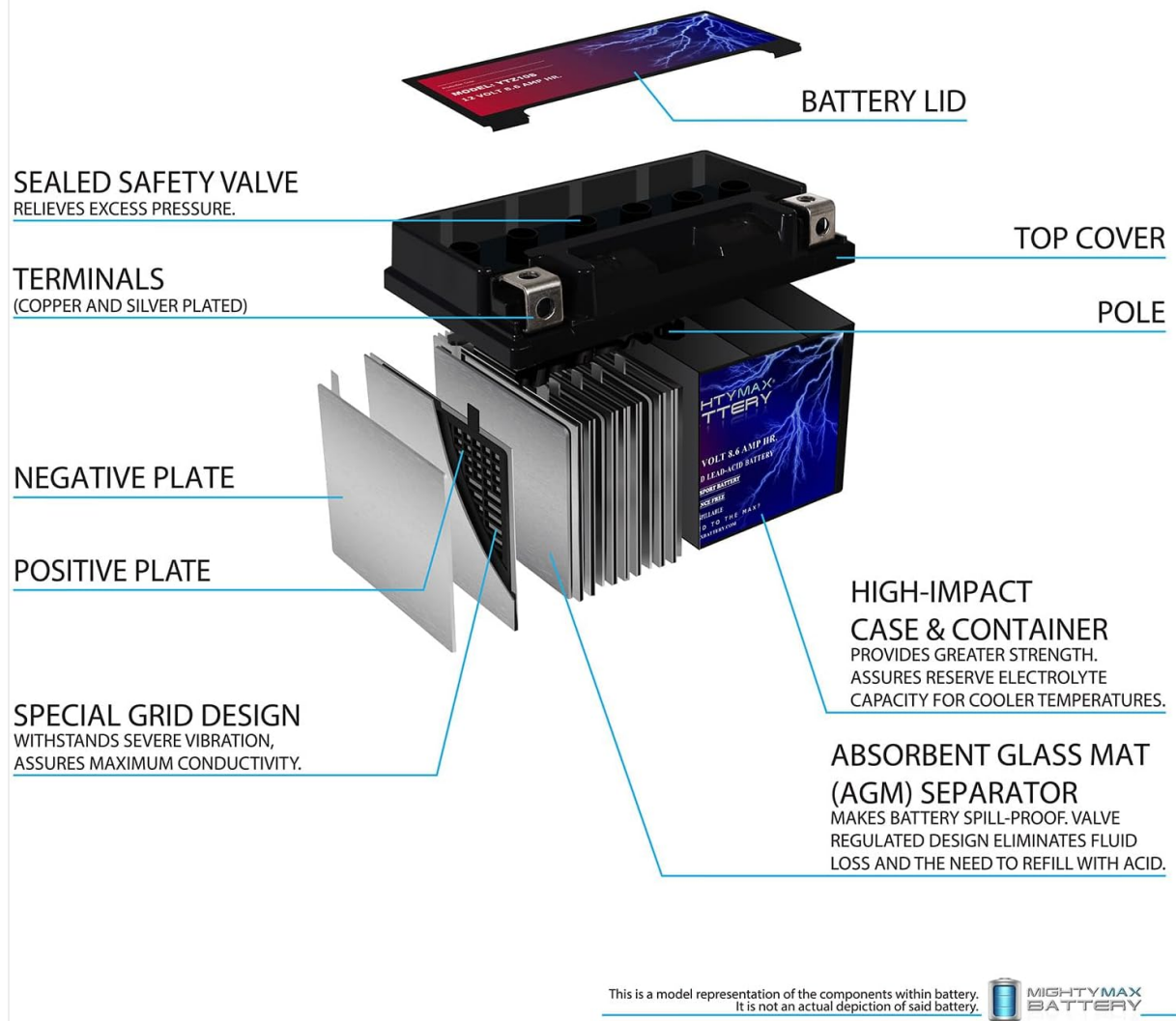


Figure 2: Internal configuration of the Mighty Max Battery, highlighting key components like the sealed safety valve and AGM separator for spill-proof operation.

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Video 1: Overview of Mighty Max Battery features, including shock resistance, quick recharging, various terminal types, spill-proof design, mounting versatility, and maintenance-free operation.

3. SAFETY INFORMATION

Always observe the following safety precautions when handling batteries:

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves, when handling batteries.
- Do not short circuit the battery terminals. This can cause severe burns, fire, or explosion.
- Keep batteries away from open flames, sparks, and heat sources.
- Do not disassemble, puncture, or modify the battery.
- Keep out of reach of children.
- In case of contact with battery acid, flush immediately with water and seek medical attention.
- Ensure proper ventilation when charging batteries.

4. SETUP AND INSTALLATION

Follow these steps for proper battery installation:

1. **Verify Compatibility:** Ensure the battery dimensions (5.90"L x 3.42"W x 3.74"H) and terminal configuration (positive on left, negative on right) match your vehicle's requirements.
2. **Prepare the Area:** Turn off the vehicle's ignition and remove the old battery. Clean the battery tray and terminal connectors to remove any corrosion.
3. **Position the Battery:** Place the new Mighty Max Battery YTZ10S into the battery compartment. The spill-proof design allows for flexible mounting.
4. **Connect Terminals:** Connect the positive (+) terminal first, then the negative (-) terminal. Ensure connections are secure but do not overtighten.
5. **Secure the Battery:** Use any existing battery hold-down straps or clamps to secure the battery firmly in place to prevent movement during operation.



Figure 3: Detailed dimensions of the Mighty Max Battery YTZ10S, crucial for proper fitment.

POSITIVE TERMINAL ON LEFT SIDE



POSITIVE



NEGATIVE



Figure 4: Terminal polarity of the Mighty Max Battery YTZ10S, showing the positive terminal on the left.



Figure 5: Close-up of the battery terminal, illustrating the connection point for cables.

5. OPERATING INSTRUCTIONS

The Mighty Max YTZ10S battery is designed for reliable power delivery. While it comes pre-charged, it is recommended to fully charge the battery before its first use for optimal performance and lifespan.

- **Initial Charge:** If the battery is not fully charged upon receipt, use a compatible 12V battery charger to bring it to full capacity.
- **Normal Operation:** The battery will charge during vehicle operation. Ensure your vehicle's charging system is functioning correctly.
- **Discharge:** Avoid deep discharge whenever possible to prolong battery life.
- **Storage:** If storing the battery for an extended period, ensure it is fully charged and stored in a cool, dry place. Periodically check the voltage and recharge if it drops below 12.5V.

6. MAINTENANCE

Mighty Max SLA/AGM batteries are maintenance-free, meaning they do not require water additions. However, regular checks can help ensure long-term performance:

- **Terminal Inspection:** Periodically check battery terminals for corrosion and ensure they are clean and tight.

Clean any corrosion with a wire brush and a mixture of baking soda and water.

- **Battery Case:** Inspect the battery case for any signs of damage, cracks, or swelling. If damage is observed, replace the battery immediately.
- **Voltage Check:** For vehicles stored for extended periods, check the battery voltage every 1-2 months. If the voltage drops significantly, recharge the battery using a suitable charger.
- **Temperature:** While the battery performs well in wide temperature ranges, extreme heat or cold during storage can affect its lifespan. Store in a moderate environment when possible.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Vehicle won't start / Weak cranking	Low battery charge, loose or corroded terminals, faulty charging system.	Charge the battery. Clean and tighten terminals. Inspect vehicle's charging system (alternator/regulator).
Battery not holding charge	Parasitic drain, old battery, faulty charging system.	Check for electrical components drawing power when off. Test battery health. Inspect vehicle's charging system.
Corrosion on terminals	Normal chemical reaction, loose connections.	Clean terminals with a wire brush and baking soda solution. Ensure connections are tight.
Battery case is swollen or cracked	Overcharging, physical damage, internal fault.	Immediately replace the battery. Do not attempt to use a damaged battery.

If problems persist after attempting these solutions, consult a qualified technician or contact Mighty Max Battery support.

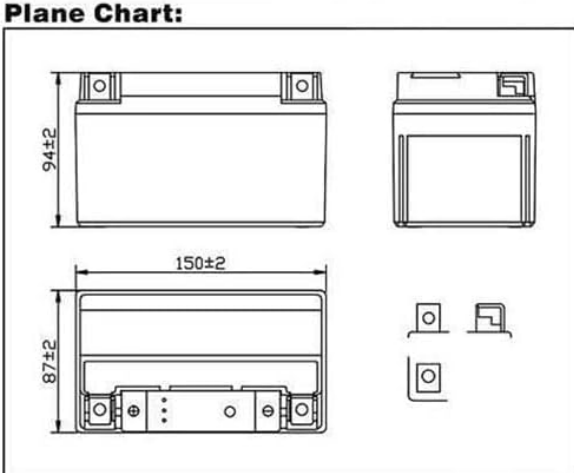
8. SPECIFICATIONS

Specification	Value
Brand	Mighty Max Battery
Model Number	YTZ10S61
Voltage	12 Volts
Battery Capacity	8.6 Amp Hours
Cold Cranking Amps (CCA)	190 CCA
Battery Cell Composition	Sealed Lead Acid (SLA) / AGM
Number Of Cells	6
Item Weight	5.7 Pounds
Product Dimensions (L x W x H)	5.9" x 3.42" x 3.74"
Included Components	Battery
Automotive Fit Type	Universal Fit
Compatible Vehicle Type	ATV



CHARACTERISTICS OF VALVE REGULATED FACTORY ACTIVATED LEAD ACID BATTERY

MODEL: YTZ10S



Parts:

Cover	Container Bottom	Terminal	Positive Plate	Negative Plate	Separator	Electrolyte	Safty Valve	Seal Glue
ABS	ABS	Pb	PbO2	Pb	AGM	dilute sulphuric acid	Rubber	Epoxy Resin

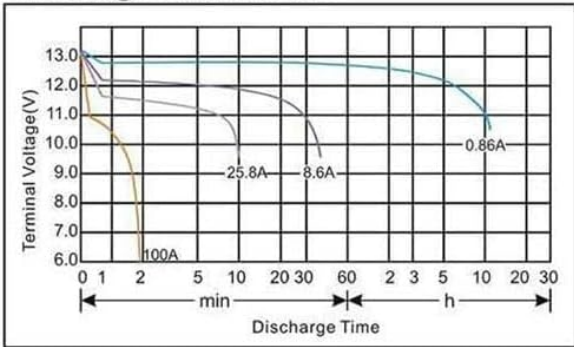
Parameter Chart:

Volts	12V	
Capacity (25°C)	10 hours rate	8.6Ah
Appx.Dimension (mm)	L±2	150
	W±2	87
	H±2	94
Storage Status	Wet	
Weight (Approx)	2.85Kg	

Retention of Charge Storage @25°C		
1 month	97%	Directly Mounted
3 month	90%	Directly Mounted
6 month	80%	Constant Volts:14.4V Limit Current:1.72A Charging Hours:2-3H
12 month	40%	Constant Volts:14.4V Limit Current:1.72A Charging Hours:4-6H
CCA	Factory Standard (-10°C)	Factory Standard (-18°C)
Discharging Current	100A	120A

★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.

Discharge Current 25°C



Residual Capacity

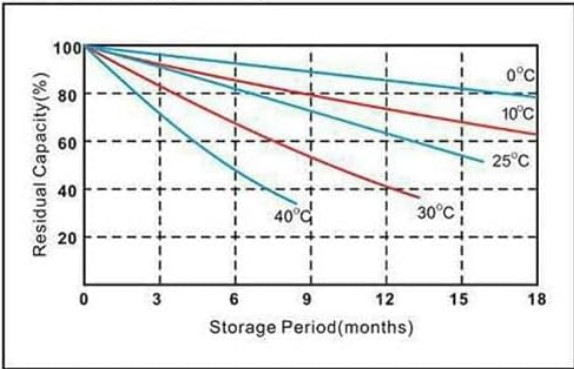


Figure 6: Detailed specification chart for the Mighty Max Battery YTZ10S, including electrical and physical parameters.

9. WARRANTY AND SUPPORT

Your Mighty Max Battery YTZ10S comes with a **Full One Year Warranty** from the manufacturer. This warranty covers defects in materials and workmanship under normal use. For warranty claims, technical support, or any questions regarding your battery, please contact Mighty Max Battery directly. Refer to the contact information provided with your purchase or visit the official Mighty Max Battery

website for assistance.

Manufacturer: Mighty Max Battery