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› VMAX XTR8D-310 12V 310Ah Deep Cycle AGM SLA Battery Instruction Manual

VMAXTANKS XTR8D-310

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Brand: VMAXTANKS | Model: XTR8D-310

1. OVERVIEW

The VMAX XTR8D-310 is a heavy-duty 12 Volt 310 Amp-hour (Ah) Deep Cycle Absorbed Glass Mat (AGM) Sealed Lead-Acid (SLA) battery. Designed for robust performance, it is an excellent choice for solar/wind backup systems in homes or businesses, as well as for marine applications in boats and other vehicles requiring a Group 4D battery. This battery is engineered to provide reliable auxiliary power for extended periods.



Image 1.1: VMAX XTR8D-310 12V 310Ah Deep Cycle AGM SLA Battery. This image displays the top and side view of the VMAX XTR8D-310 battery, highlighting its robust casing and terminal posts.

2. SAFETY INFORMATION

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves, when handling batteries.
- Ensure proper ventilation when charging to prevent accumulation of gases.
- Avoid short-circuiting the battery terminals. Connect positive to positive and negative to negative.
- Do not expose the battery to open flames or excessive heat.
- Keep the battery upright during transport and operation.
- Do not attempt to open or modify the battery casing.

3. PACKAGE CONTENTS

Your VMAX XTR8D-310 battery package typically includes:

- 1 x VMAX XTR8D-310 12V 310Ah Deep Cycle AGM SLA Battery
- SAE+3/8" STUD Terminal Posts (included with battery)

- User Manual (this document)

Note: Connecting cables are not included and must be purchased separately based on your specific application requirements.

4. INSTALLATION & SETUP

Proper installation is crucial for optimal performance and safety. Follow these guidelines:

1. **Mounting:** Secure the battery in a well-ventilated area, ensuring it is protected from direct sunlight, extreme temperatures, and moisture. The battery should be mounted upright.
2. **Terminal Connection:** Connect the provided SAE+3/8" STUD terminal posts. Ensure all connections are clean, tight, and free from corrosion. Connect the positive (+) terminal of the battery to the positive terminal of your system, and the negative (-) terminal of the battery to the negative terminal of your system.
3. **Wiring:** Use appropriate gauge wiring for your application to prevent overheating and ensure efficient power transfer. Refer to your system's wiring diagrams for specific requirements.
4. **Initial Charge:** It is recommended to fully charge the battery before its first use.

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Video 4.1: Demonstration of a 12V 200Ah AGM Battery setup for RV and marine solar off-grid systems. This video illustrates the general connection process for an AGM battery to a solar charge controller and inverter, providing a visual guide for system integration.

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Video 4.2: Overview of a 12V 200Ah AGM Battery for RV and off-grid systems. This video provides a general look at an AGM battery's features and potential applications in various off-grid setups.

5. CHARGING & OPERATION

The VMAX XTR8D-310 is designed for deep cycle applications, providing sustained power over long discharge periods. For optimal performance and longevity, adhere to the recommended charging parameters:

- **Bulk Charging Voltage:** 14.4-14.9V
- **Float Voltage:** 13.5V
- Use a charger specifically designed for AGM batteries to ensure correct charging profiles.
- Avoid overcharging or undercharging, as both can reduce battery lifespan.
- The battery is suitable for use in solar/wind backup systems, boats, and other auxiliary power needs.

6. MAINTENANCE

The VMAX XTR8D-310 is a Sealed Lead-Acid (SLA) Absorbed Glass Mat (AGM) battery, which means it is virtually maintenance-free. There is no need to check electrolyte levels or add water.

- Keep the battery terminals clean and free from corrosion.
- Periodically inspect the battery casing for any signs of damage or swelling.
- Store the battery in a cool, dry place when not in use, ensuring it is fully charged.

7. TROUBLESHOOTING

If you encounter issues with your VMAX XTR8D-310 battery, consider the following:

- **Battery Not Charging:** Verify that the charger is correctly connected to the battery terminals and that the charger itself is receiving power. Ensure the charging voltage and current are within the recommended specifications for AGM batteries.
- **Reduced Performance/Short Runtime:** Check for loose or corroded terminal connections. Ensure the battery is being fully charged regularly. Excessive load or extreme temperatures can also affect performance.
- **Swelling or Damage:** If the battery casing appears swollen or damaged, discontinue use immediately and contact customer support. This may indicate overcharging or internal issues.

8. SPECIFICATIONS

Specification	Value
Model Number	XTR8D-310
Rated Voltage	12 Volts
Rated Capacity	310Ah
Battery Cell Composition	Lead-Acid, AGM
Product Dimensions (L x W x H)	20.8 x 9.8 x 11.1 inches
Item Weight	185 Pounds
Terminal Type	SAE Terminal
Number of Cells	6
Bulk Charging Voltage	14.4-14.9V
Float Voltage	13.5V
Vehicle Service Type	Boat, Trailer
UPC	730669397172, 730669397196, 730669397226

9. WARRANTY & SUPPORT

For warranty information and customer support, please refer to the documentation provided with your purchase or contact VMAXTANKS directly. Keep your purchase receipt as proof of purchase.

Return Policy: This product typically offers a 30-day easy return policy for refund or replacement. Please check with your retailer for specific terms.