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› XS Power D1600 AGM Racing Battery User Manual

XS Power D1600

XS Power D1600 AGM Racing Battery User Manual

Model: D1600

1. INTRODUCTION

Welcome to the user manual for your XS Power D1600 AGM Racing Battery. This document provides essential information for the safe and effective use, installation, and maintenance of your battery. The D1600 is a high-performance 16-volt, 56Ah, 775CA deep cycle Absorbed Glass Mat (AGM) power cell, engineered for demanding applications such as racing vehicles, and powering critical components like ECUs, fuel pumps, and gauges. Its sealed, maintenance-free design ensures reliability and durability in extreme conditions.



Image 1.1: Front view of the XS Power D1600 AGM Racing Battery, showcasing the brand logo and model number.

2. SAFETY PRECAUTIONS

Always observe the following safety guidelines when handling or working with the XS Power D1600 battery:

- Wear appropriate personal protective equipment, including eye protection and gloves, to prevent injury from accidental contact with battery components or potential acid residue.
- Avoid creating short circuits across the battery terminals, as this can cause severe arcing, heat, and potential explosion.
- Do not disassemble, puncture, or incinerate the battery.
- Keep the battery away from open flames, sparks, and heat sources.
- Ensure adequate ventilation when charging or operating the battery to dissipate any potential gases.
- In case of accidental contact with battery acid, flush the affected area with plenty of water and seek medical attention immediately.
- This product contains chemicals known to the State of California to cause cancer and reproductive harm. For more information, visit www.P65Warnings.ca.gov.

3. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your XS Power D1600 battery.

3.1 Unpacking and Inspection

- Carefully remove the battery from its packaging.
- Inspect the battery for any signs of physical damage, such as cracks, leaks, or deformed terminals. Do not install a

damaged battery.

- Verify that all included hardware, such as the 587 Stud Adapter Hardware, is present.

3.2 Mounting

- The D1600 is an AGM battery and can be mounted in almost any position (except inverted) due to its sealed, non-spillable design.
- Choose a location that is secure, well-ventilated, and protected from excessive heat, vibration, and direct impact.
- Ensure the battery is firmly secured using appropriate hold-down clamps or trays to prevent movement during vehicle operation.

3.3 Electrical Connections



Image 3.1: Top view of the XS Power D1600 battery, illustrating the positive and negative terminals along with key specifications.

- Before making any connections, ensure the vehicle's ignition is off and any other power sources are disconnected.
- Clean the battery terminals and cable connectors thoroughly to remove any dirt or corrosion. Use a wire brush if necessary.
- Connect the positive (+) battery cable to the positive (+) terminal of the D1600 battery first. Tighten securely.
- Connect the negative (-) battery cable to the negative (-) terminal of the D1600 battery. Tighten securely.
- Ensure all connections are tight to prevent arcing and power loss. Do not overtighten.
- Apply a thin layer of anti-corrosion grease to the terminals and connections to prevent future corrosion.

3.4 Initial Charging

- Although XS Power batteries are typically shipped with a charge, it is recommended to fully charge the D1600 before its first use for optimal performance and lifespan.
- Use a battery charger specifically designed for 16-volt AGM batteries. Refer to the charger's instructions for proper operation.
- Avoid using chargers not designed for AGM batteries or those that do not support 16-volt charging.

4. OPERATING GUIDELINES

The XS Power D1600 is engineered for high-demand applications. Adhering to these guidelines will help ensure its reliable operation.

- **Voltage Monitoring:** Regularly monitor the battery's voltage, especially during and after high-current draw periods. A voltmeter can provide valuable insight into the battery's state of charge.
- **Discharge Limits:** While the D1600 is a deep cycle battery, repeatedly discharging it below its recommended minimum voltage (typically around 15.5V for a 16V system under load) can shorten its lifespan.
- **Temperature Considerations:** Operate the battery within its specified temperature range. Extreme cold can reduce capacity and cranking power, while excessive heat can accelerate degradation.
- **Charging System:** Ensure your vehicle's charging system (alternator, voltage regulator) is functioning correctly and is compatible with a 16-volt AGM battery to prevent overcharging or undercharging.

5. MAINTENANCE

The XS Power D1600 is a maintenance-free AGM battery, meaning it does not require water additions. However, periodic checks and cleaning are recommended.

- **Cleaning:** Keep the battery case and terminals clean and dry. Use a damp cloth to wipe down the battery. If corrosion is present on terminals, clean with a mixture of baking soda and water, then rinse with clean water and dry thoroughly.
- **Terminal Inspection:** Periodically inspect all cable connections to the battery terminals to ensure they remain tight and free of corrosion. Loose connections can cause resistance, heat, and power loss.
- **Charging:** If the battery is not in regular use, or if it has been deeply discharged, recharge it using a smart charger designed for 16-volt AGM batteries. Avoid prolonged storage in a discharged state.
- **Storage:** For extended storage periods, fully charge the battery and store it in a cool, dry place. Check the voltage every 3-6 months and recharge if it drops below 15.8V (open circuit voltage).

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your D1600 battery.

| Problem | Possible Cause | Solution |
|----------------------------------|---|--|
| Battery not holding charge | Faulty charging system, parasitic drain, sulfation, internal damage | Check alternator/regulator. Test for parasitic drains. Fully charge with an AGM-compatible charger. If issues persist, battery may need replacement. |
| Low voltage output | Loose or corroded connections, excessive load, undercharged battery | Inspect and clean all connections. Reduce electrical load. Fully charge the battery. |
| Corrosion on terminals | Environmental factors, loose connections, minor acid leakage (rare for AGM) | Clean terminals with baking soda and water solution. Apply anti-corrosion grease. Ensure connections are tight. |
| Battery case swelling or bulging | Severe overcharging, internal cell damage, excessive heat | Discontinue use immediately. This indicates a serious internal fault. Replace the battery and check charging system. |

7. SPECIFICATIONS

Key technical specifications for the XS Power D1600 AGM Racing Battery:

| Feature | Specification |
|--------------------------------|--|
| Model | D1600 |
| Voltage | 16 Volt |
| Amperage (Ah) | 56 Ah |
| Cranking Amps (CA) @ 32°F | 775 Amps |
| Max Amps | 2400 Amps |
| Reserve Capacity (RC) | 96 minutes |
| Terminal Type | Stud Terminal (with 587 Stud Adapter Hardware) |
| Battery Type | Absorbed Glass Mat (AGM) |
| Design | Sealed, Non-Spillable, Maintenance-Free |
| Item Weight | 48.2 pounds (21.85 kg) |
| Product Dimensions (L x W x H) | 12 x 10 x 8.5 inches |
| Manufacturer Part Number | D1600 |
| UPC | 692209015062 |

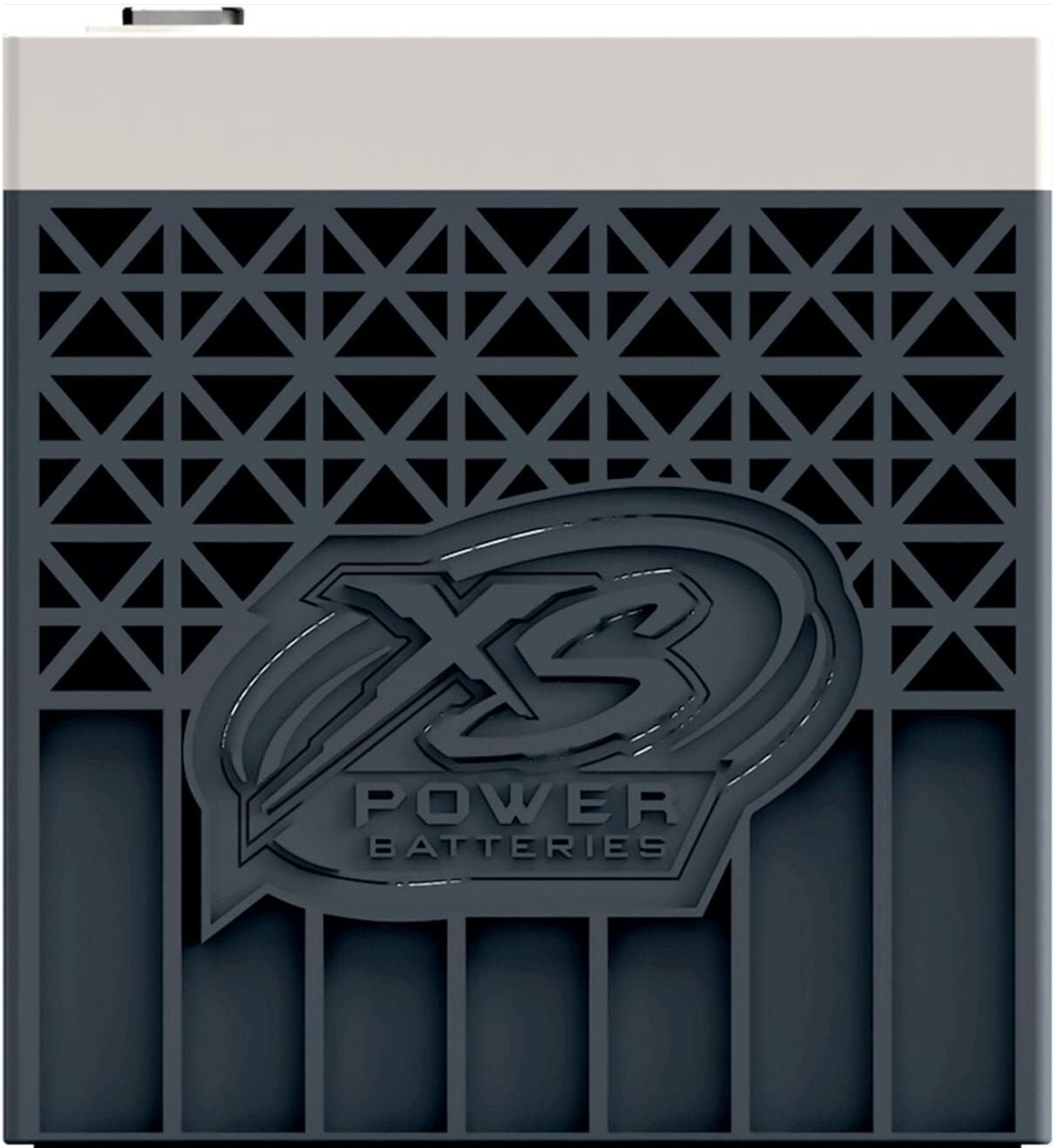


Image 7.1: Side view of the XS Power D1600 battery, showing its robust casing and textured design.

8. WARRANTY AND SUPPORT

8.1 Warranty Information

XS Power batteries are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the official warranty statement provided with your purchase or visit the XS Power website. The warranty typically covers defects in materials and workmanship under normal use and service.

8.2 Customer Support

If you have any questions, require technical assistance, or need to initiate a warranty claim, please contact XS Power customer service. Ensure you have your product model (D1600) and proof of purchase available when contacting support. For more information and to locate authorized dealers, please visit the official XS Power website: xspowerbatteries.com

