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ODYSSEY ODS-AGM16L

Odyssey Battery ODS-AGM16L Extreme Series AGM Battery Instruction Manual

Brand: ODYSSEY | Model: ODS-AGM16L

PRODUCT OVERVIEW

The ODYSSEY ODS-AGM16L Extreme Series AGM Battery is engineered for powersport vehicles, designed to withstand constant vibration and shock. Its non-spillable Absorbed Glass Mat (AGM) design, combined with pure lead plates, delivers enhanced power and extended lifespan compared to conventional batteries.

Key features of this battery include:

- Voltage: 12v
- PHCA (Pulse Hot Cranking Amps): 520
- Cold Cranking Amps (CCA): 170
- HCA (Hot Cranking Amps): 350
- Reserve Capacity: 24 minutes
- Negative Terminal Location: Left Side
- Terminal Type: Internal threaded brass terminals with M6 SS bolts
- Fit type: Vehicle Specific



Image 1: The Odyssey ODS-AGM16L Extreme Series AGM Battery, showcasing its robust design with a red top and black body, and threaded top terminals.

SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your ODYSSEY battery. Always prioritize safety during installation.

Safety Precautions:

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle's ignition is off and all accessories are disconnected.
- Avoid contact with battery terminals and ensure no metal objects can short circuit the terminals.
- Work in a well-ventilated area.

Installation Steps:

1. **Preparation:** Ensure the battery compartment is clean and free of debris. Verify the battery dimensions match the available space.
2. **Remove Old Battery (if applicable):** Disconnect the negative (-) terminal first, then the positive (+) terminal. Carefully remove the old battery.
3. **Positioning:** Place the ODYSSEY ODS-AGM16L battery securely in the battery tray. Ensure it is stable and will not shift during vehicle operation.

4. Connecting Terminals:

- Connect the **positive (+)** cable to the positive terminal of the new battery first.
- Connect the **negative (-)** cable to the negative terminal of the new battery second.
- Ensure all connections are tight and secure using the provided M6 SS bolts. Do not overtighten.

5. **Secure Battery:** Use the vehicle's battery hold-down mechanism to firmly secure the battery in place.

6. **Final Check:** Double-check all connections and ensure no tools or foreign objects are left in the battery compartment.

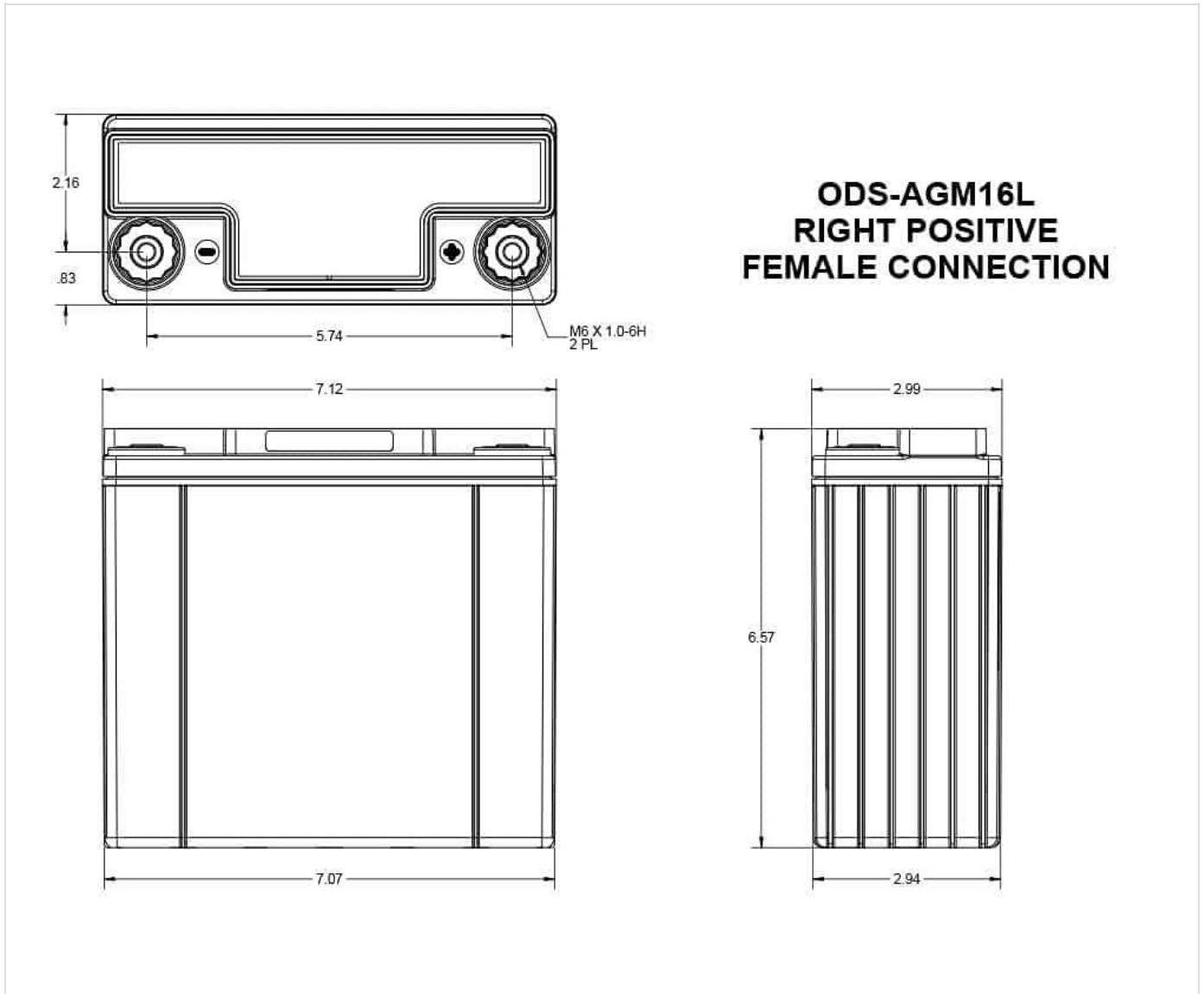


Image 2: Technical drawing illustrating the dimensions and terminal configuration of the ODS-AGM16L battery, specifically noting the right positive female connection.

OPERATING GUIDELINES

The ODYSSEY ODS-AGM16L battery is designed for high performance and durability. Adhering to these operating guidelines will help maximize its lifespan.

- **Initial Charge:** While ODYSSEY batteries often come pre-charged, it is recommended to fully charge the battery before its first use, especially if it has been stored for an extended period.
- **Charging Voltage:** For optimal charging, use a charger designed for AGM batteries, typically providing a voltage of 14.7VDC. Avoid overcharging or undercharging.
- **Avoid Deep Discharge:** Although the ODYSSEY battery can withstand up to 80% depth of discharge, frequent

deep discharges can reduce overall battery life. Recharge the battery as soon as possible after significant discharge.

- **Temperature Considerations:** The battery performs well across a wide range of temperatures. However, extreme cold can temporarily reduce cranking power, and extreme heat can accelerate aging.
- **Vehicle Electrical System:** Ensure your vehicle's charging system (alternator, voltage regulator) is functioning correctly to provide consistent and appropriate charging voltage to the battery.

MAINTENANCE

The ODYSSEY ODS-AGM16L is a maintenance-free AGM battery, meaning it does not require water additions. However, periodic checks can ensure optimal performance.

- **Terminal Inspection:** Periodically inspect the battery terminals for cleanliness and tightness. Clean any corrosion with a wire brush and a baking soda/water solution. Ensure connections remain secure.
- **Battery Case Inspection:** Check the battery case for any signs of damage, cracks, or swelling. If damage is observed, the battery may need replacement.
- **Voltage Monitoring:** For vehicles stored for extended periods, regularly check the battery's open-circuit voltage. If it drops below 12.4V, recharge the battery to prevent sulfation and extend life.
- **Storage:** If storing the battery for an extended period, ensure it is fully charged and stored in a cool, dry place. Disconnect it from the vehicle to prevent parasitic drains. Periodic charging during storage is recommended.

TROUBLESHOOTING

This section addresses common issues you might encounter with your ODYSSEY ODS-AGM16L battery.

Problem	Possible Cause	Solution
Engine cranks slowly or not at all	Low battery charge; Loose or corroded terminals; Faulty starter motor or alternator.	Recharge battery; Clean and tighten terminals; Test starter and alternator, replace if faulty.
Battery not holding charge	Parasitic drain; Faulty charging system; Battery nearing end of life.	Identify and eliminate parasitic drain; Inspect and repair charging system; Replace battery if old.
Battery case appears swollen or damaged	Overcharging; Internal short circuit; Physical damage.	Immediately disconnect and replace the battery. Do not attempt to charge or use a damaged battery.
Lights dim when engine is off	Low battery charge; Excessive accessory use.	Recharge battery; Limit use of accessories when engine is off.

If you are unable to resolve an issue using this guide, it is recommended to consult a qualified automotive technician.

TECHNICAL SPECIFICATIONS

Detailed specifications for the ODYSSEY ODS-AGM16L Extreme Series AGM Battery:

Specification	Value
Brand	ODYSSEY
Model Number	ODS-AGM16L

Specification	Value
Model Name (PC)	PC680
Battery Cell Composition	Lead Acid (AGM)
Voltage	12V
Number of Cells	6
PHCA (Pulse Hot Cranking Amps)	520
CCA (Cold Cranking Amps)	170
HCA (Hot Cranking Amps)	350
Reserve Capacity	24 minutes
Terminal Type	Internal threaded brass terminals with M6 SS bolts
Negative Terminal Location	Left Side
Item Weight	14.39 pounds
Product Dimensions (L x W x H)	7.5 x 3.7 x 7.4 inches
UPC	635241140996

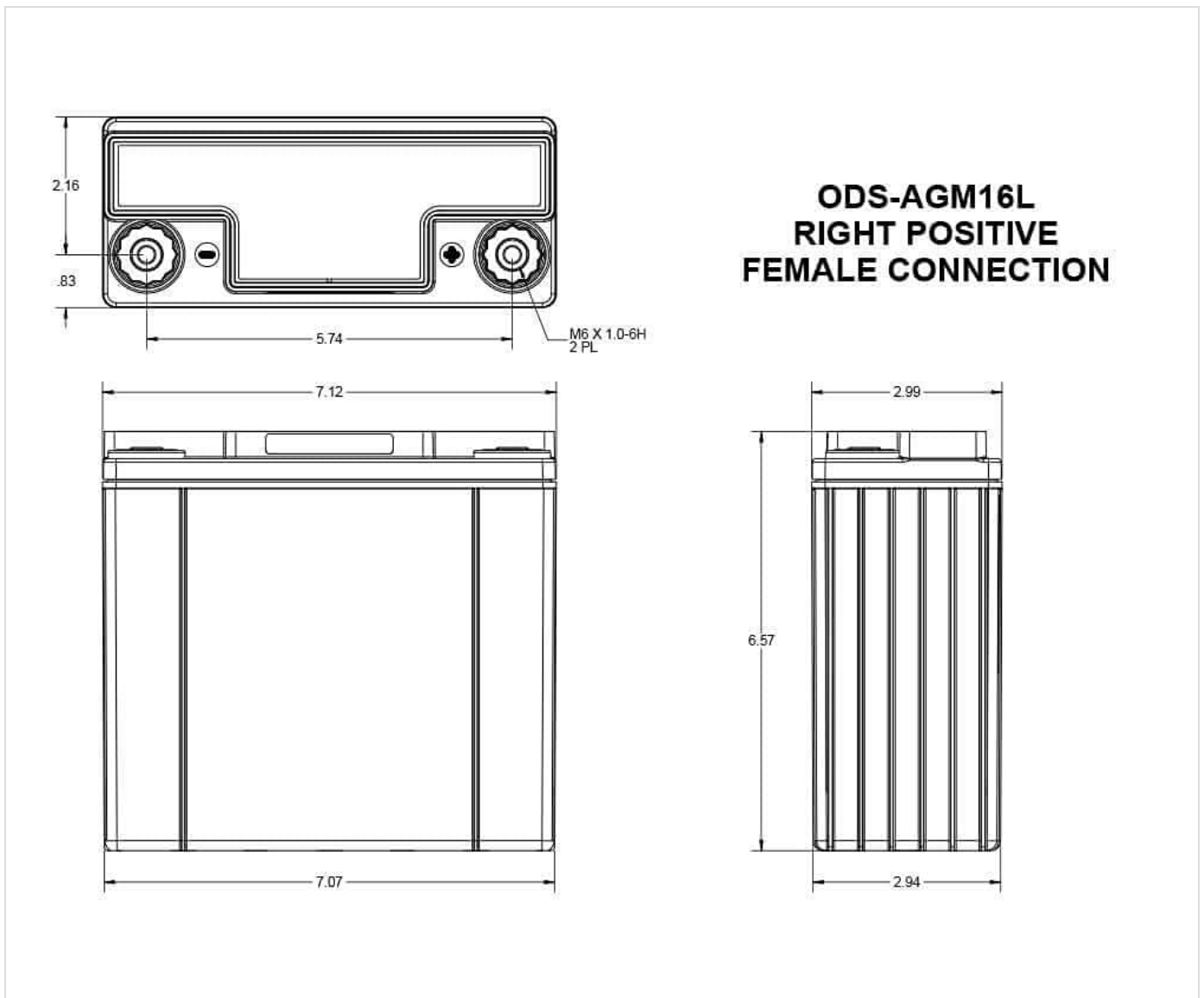


Image 2: Technical drawing illustrating the dimensions and terminal configuration of the ODS-AGM16L battery, specifically noting the right positive female connection.

WARRANTY INFORMATION

Specific warranty terms for the ODYSSEY ODS-AGM16L Extreme Series AGM Battery are provided by the manufacturer, ODYSSEY Battery. Warranty coverage typically includes defects in materials and workmanship under normal use.

For detailed warranty information, including coverage period, terms, conditions, and how to make a claim, please refer to the official ODYSSEY Battery website or the warranty card included with your product at the time of purchase. Retain your proof of purchase for warranty purposes.

CUSTOMER SUPPORT

If you require further assistance, have questions not covered in this manual, or need technical support for your ODYSSEY ODS-AGM16L battery, please contact ODYSSEY Battery customer service.

You can typically find contact information, FAQs, and additional resources on the official ODYSSEY Battery website. Please have your battery model number (ODS-AGM16L) and purchase details ready when contacting support.

Official Website: www.odysseybattery.com

