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› Part Synergy 12 Volt 720 CCA / 1250 PHCA BCI Group 48 AGM Battery Instruction Manual (Model ODPAGM48)

Part Synergy ODPAGM48

Part Synergy 12 Volt 720 CCA / 1250 PHCA BCI Group 48 AGM Battery Instruction Manual

Model: ODPAGM48

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Part Synergy 12 Volt 720 Cold Cranking Amps (CCA) / 1250 Pulse Hot Cranking Amps (PHCA) BCI Group 48 Absorbed Glass Mat (AGM) Battery, Model ODPAGM48. Please read this manual thoroughly before use and retain it for future reference.

2. SAFETY INFORMATION

Batteries contain sulfuric acid and produce explosive gases. Improper handling can result in severe injury or death. Always follow these safety precautions:

- **Wear Eye Protection:** Always wear safety glasses or a face shield when working with batteries.
- **Wear Protective Clothing:** Wear gloves and protective clothing to prevent contact with battery acid.
- **Ventilation:** Ensure adequate ventilation when charging or working near batteries to disperse explosive gases.
- **No Smoking/Sparks:** Keep flames, sparks, and smoking materials away from batteries.
- **Avoid Short Circuits:** Do not place tools or metal objects on top of the battery. Avoid touching both terminals simultaneously with metal.
- **Acid Contact:** If battery acid contacts skin or eyes, flush immediately with water for at least 15 minutes and seek medical attention.
- **Lifting:** Batteries are heavy. Use proper lifting techniques or assistance to prevent injury.
- **Disposal:** Dispose of old batteries responsibly at an authorized recycling center.

3. PRODUCT FEATURES

The Part Synergy ODPAGM48 battery offers the following key features:

- **Electrolyte Style:** AGM (Absorbed Glass Mat) for spill-proof operation and enhanced vibration resistance.
- **Voltage:** 12 Volt nominal.
- **Amp Hour Rating:** 70 AH Capacity.

- **Cranking Amps (CA):** 1250 Amp.
- **Cold Cranking Amps (CCA):** 720 Amp.
- **Terminals:** SAE Top Terminals.
- **Design:** Low Maintenance, Eco-Friendly & Sustainable, Marine-Grade Durability.
- **Fit Type:** Universal Fit.



Image 1: Front view of the Part Synergy 12 Volt BCI Group 48 AGM Battery, Model ODPAGM48, showing the red top and black base with "ODYSSEY Performance" branding.

4. SETUP AND INSTALLATION

Proper installation is crucial for battery performance and safety. If you are unsure about any step, consult a qualified technician.

1. Preparation:

- Ensure the vehicle's ignition is off and all accessories are disconnected.
- Wear appropriate safety gear (eye protection, gloves).
- Locate the existing battery.

2. Disconnecting the Old Battery:

- First, disconnect the negative (-) terminal cable (usually black) from the old battery.
- Next, disconnect the positive (+) terminal cable (usually red).
- Remove any hold-down clamps or straps securing the old battery.
- Carefully lift and remove the old battery.

3. Cleaning:

- Clean the battery tray and terminal cables thoroughly with a wire brush and a baking soda/water solution to remove any corrosion. Rinse with clean water and dry completely.

4. Installing the New Battery:

- Place the new Part Synergy ODPAGM48 battery securely in the battery tray.
- Secure the battery with the hold-down clamps or straps to prevent movement.
- First, connect the positive (+) terminal cable to the positive (+) post of the new battery. Tighten securely.
- Next, connect the negative (-) terminal cable to the negative (-) post of the new battery. Tighten securely.
- Ensure all connections are tight and free of corrosion.

5. Final Check:

- Double-check all connections.
- Ensure no tools or metal objects are left near the battery.
- Start the vehicle to confirm proper operation.

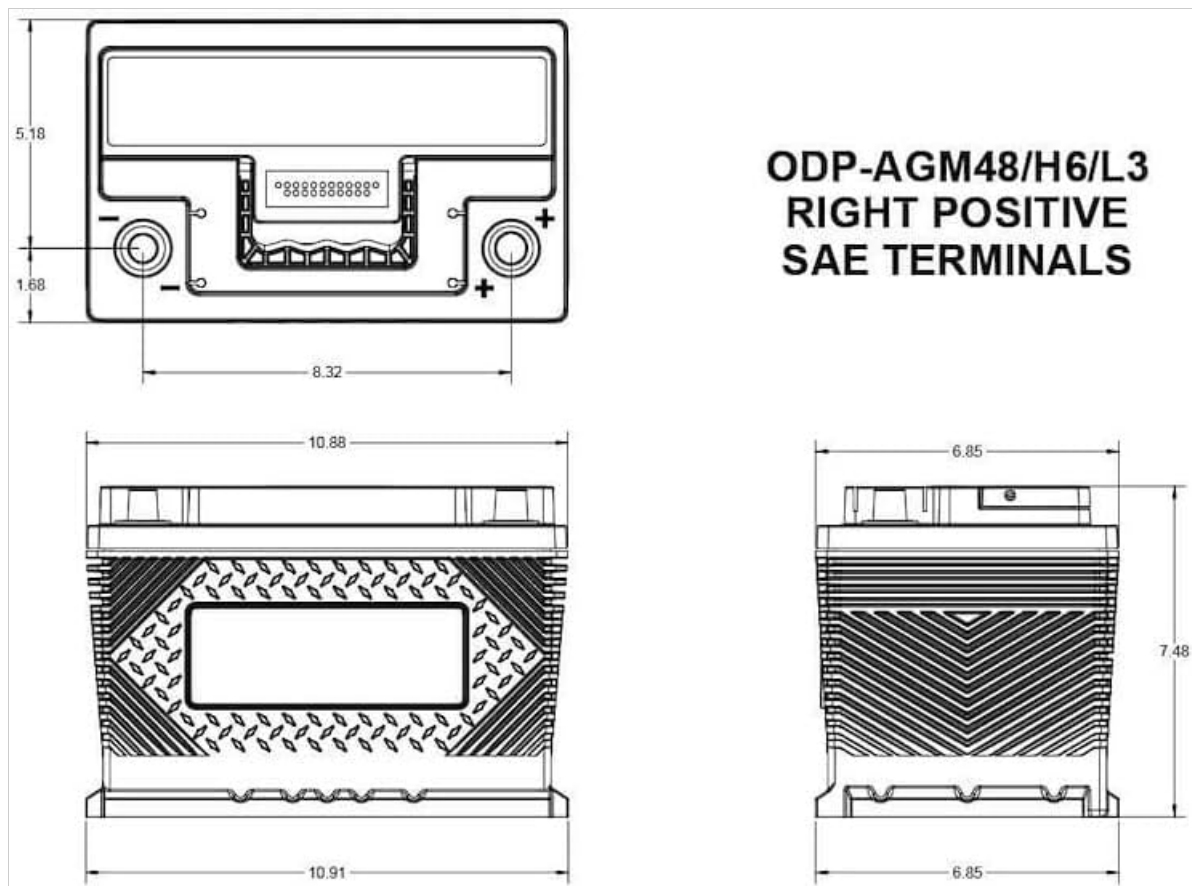


Image 2: Dimensional drawing of the Part Synergy ODPAGM48 battery, showing top, front, and side views with measurements in inches, and indicating right positive SAE terminals.

5. OPERATING INSTRUCTIONS

The Part Synergy ODPAGM48 is an AGM battery designed for reliable starting and accessory power. It is a sealed, maintenance-free battery, meaning it does not require water additions.

- **Normal Operation:** The battery will charge automatically when the vehicle's engine is running.
- **Charging:** If the battery needs external charging, use a charger specifically designed for AGM batteries. Avoid overcharging, as this can damage the battery. Follow the charger manufacturer's instructions.
- **Deep Discharge:** While AGM batteries are more tolerant to deep discharges than flooded batteries, repeated deep discharges can shorten battery life. Avoid leaving accessories on when the engine is off for extended periods.

- **Storage:** If storing the battery for an extended period, ensure it is fully charged and store it in a cool, dry place. Periodically check the voltage and recharge if it drops below 12.5 volts.

6. MAINTENANCE

AGM batteries are considered low-maintenance, but regular checks can extend their lifespan and ensure optimal performance.

- **Terminal Inspection:** Periodically inspect battery terminals for corrosion, dirt, or loose connections. Clean terminals with a wire brush if necessary and ensure they are tight.
- **Battery Case:** Keep the battery case clean and dry. Wipe away any dirt or debris.
- **Voltage Check:** Regularly check the battery's open-circuit voltage with a voltmeter. A fully charged 12V AGM battery should read approximately 12.8-12.9 volts.
- **Hold-Down:** Ensure the battery hold-down is secure to prevent vibration, which can damage the battery.
- **No Water Addition:** Do not attempt to add water to this AGM battery. It is a sealed unit and does not require electrolyte replenishment.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Engine cranks slowly or not at all	Low battery charge, loose or corroded terminals, faulty starter, alternator issue.	Charge the battery. Clean and tighten terminals. Test starter and alternator.
Lights are dim	Low battery charge, poor ground connection.	Charge the battery. Check and clean ground connections.
Battery drains quickly	Parasitic draw (something is draining power when off), faulty charging system, old battery.	Test for parasitic draw. Have charging system inspected. Consider battery replacement if it's old.
Battery case is swollen or cracked	Overcharging, internal damage.	Immediately discontinue use. This indicates a dangerous condition. Replace the battery.

If these steps do not resolve the issue, consult a professional automotive technician.

8. SPECIFICATIONS

Feature	Detail
Brand	Part Synergy
Model Number	ODPAGM48 (also 1448 - ODPAGM48)
BCI Group Size	48
Voltage	12 Volt
Electrolyte Style	AGM (Absorbed Glass Mat)
Amp Hour Rating	70 AH Capacity
Cold Cranking Amps (CCA)	720 Amp
Cranking Amps (CA)	1250 Amp

Feature	Detail
Pulse Hot Cranking Amps (PHCA)	1250 Amp
Terminal Type	SAE Top Terminals
Item Weight	48 pounds
Product Dimensions (L x W x H)	13.5 x 10 x 9.5 inches
Special Features	Eco-Friendly & Sustainable, Low Maintenance Design, Marine-Grade Durability
Fit Type	Universal Fit

9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Part Synergy ODPAGM48 battery, please refer to the documentation included with your purchase or contact Part Synergy customer service directly. Contact details can typically be found on the manufacturer's website or on your purchase receipt.

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

