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› MARXON AGM BCI 48 Car Battery User Manual: Model H6, 12V 70AH 760CCA

## MARXON BCI 48

# MARXON AGM BCI 48 Car Battery User Manual

Model H6, 12V 70AH 760CCA Maintenance-Free Automotive Replacement Battery

## 1. INTRODUCTION

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This manual provides essential information for the safe and effective use of your MARXON AGM BCI 48 car battery. This 12V, 70Ah, 760CCA battery is designed for automotive applications, including vehicles equipped with start-stop functionality. Please read this manual thoroughly before installation and operation.



Image 1.1: The MARXON AGM BCI 48 Car Battery, a 12V 70AH 760CCA maintenance-free automotive replacement battery.

## 2. SAFETY INFORMATION

Always prioritize safety when handling and installing automotive batteries. Failure to follow these instructions can result in serious injury or damage.

- **Eye Protection:** Always wear safety glasses or goggles when working with batteries.
- **Skin Protection:** Wear gloves and protective clothing to prevent contact with battery acid.
- **Ventilation:** Ensure adequate ventilation when charging or working near batteries, as they can produce explosive gases.
- **No Smoking/Open Flames:** Keep sparks, flames, and smoking materials away from batteries.
- **Tools:** Use insulated tools to prevent short circuits. Avoid placing metal objects on top of the battery.
- **Children and Pets:** Keep batteries out of reach of children and pets.
- **First Aid:** In case of contact with battery acid, flush immediately with water and seek medical attention.

## 3. PRODUCT FEATURES

The MARXON AGM BCI 48 battery offers several advanced features for reliable vehicle performance:

- **AGM Technology:** This Absorbent Glass Mat (AGM) battery is maintenance-free, eliminating the need to add acid or water.
- **Start-Stop Compatibility:** Engineered to support vehicles with start-stop systems, contributing to fuel efficiency and reduced CO2 emissions.
- **Fast Charging:** Utilizes advanced materials for improved charge acceptance, resulting in up to 40% faster charging compared to traditional SLA batteries.
- **Enhanced Durability:** Features a patented alloy construction for superior corrosion resistance and leak-proof performance.
- **High Performance:** Delivers 12V, 70Ah capacity, and 760 Cold Cranking Amps (CCA) for reliable starting power.
- **Wide Temperature Range:** Designed to operate effectively in extreme temperatures, from -22°F to 140°F.



Image 3.1: Key features of the MARXON AGM battery, including its maintenance-free design, 760 CCA, 46.53 lbs weight, 12V voltage, and 70Ah capacity.



Image 3.2: The MARXON AGM battery is designed for reliable performance across a wide temperature range, from extreme heat to extreme cold.

## 4. SPECIFICATIONS

Specification	Value
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Specification	Value
Brand	MARXON
Model	H6 (BCI 48)
Voltage	12V
Capacity	70Ah
Cold Cranking Amps (CCA)	760A
Item Weight	46.53 lbs (21.1 kg)
Product Dimensions (L x W x H)	10.95 x 6.89 x 7.48 inches (27.8 x 17.5 x 19 cm)
Terminal Type	A1
Number of Cells	1
Technology	AGM (Absorbent Glass Mat)
Maintenance	Maintenance-Free



Image 4.1: Detailed dimensions of the MARXON BCI 48 battery, indicating its length, width, and height, along with the A1 terminal type.



Image 4.2: A visual guide to confirm battery size, terminal type, and polarity, listing compatible sizes including BCI 48.

## 5. INSTALLATION INSTRUCTIONS

Before beginning, ensure your vehicle is turned off and the parking brake is engaged. Refer to your vehicle's owner's manual for specific battery replacement procedures.

1. **Prepare:** Gather necessary tools: wrench, battery terminal cleaner, wire brush, safety glasses, and gloves.
2. **Disconnect Old Battery:** First, disconnect the negative (-) terminal cable, then the positive (+) terminal cable. Remove any hold-down clamps or straps securing the old battery.
3. **Remove Old Battery:** Carefully lift and remove the old battery. Be aware of its weight (approximately 46.53 lbs).
4. **Clean Battery Tray and Cables:** Clean the battery tray and terminal clamps with a wire brush and battery terminal cleaner to remove any corrosion.
5. **Place New Battery:** Carefully place the MARXON AGM BCI 48 battery into the battery tray, ensuring it is seated securely.
6. **Secure Battery:** Reinstall any hold-down clamps or straps to firmly secure the battery in place.
7. **Connect New Battery:** First, connect the positive (+) terminal cable, then connect the negative (-) terminal cable. Ensure connections are tight and secure.
8. **Final Check:** Double-check all connections and ensure no tools or metal objects are left near the battery.

Your browser does not support the video tag.

Video 5.1: A brief overview of the MARXON AGM battery, showing its physical appearance and terminal caps, useful for visual identification during installation.

## 6. OPERATING THE BATTERY

Once properly installed, the MARXON AGM BCI 48 battery operates automatically as part of your vehicle's electrical system.

- **Normal Operation:** The battery provides power for starting the engine and running vehicle electronics. It recharges automatically via the vehicle's alternator.
- **Start-Stop Functionality:** For vehicles equipped with start-stop systems, the battery is designed to handle frequent engine starts and stops, optimizing fuel consumption and reducing emissions.
- **Cold Weather Performance:** The 760 CCA rating ensures reliable starting even in cold conditions.



Image 6.1: The MARXON AGM battery is designed to support vehicles with start-stop technology, enhancing fuel efficiency.

## 7. MAINTENANCE

The MARXON AGM BCI 48 battery is a maintenance-free unit, meaning it does not require periodic water additions. However, some general care can help ensure its longevity and optimal performance:

- **Keep Terminals Clean:** Periodically inspect battery terminals for corrosion. If present, clean with a

wire brush and a baking soda/water solution. Ensure terminals are tight.

- **Check Hold-Down:** Ensure the battery is securely fastened in its tray to prevent vibration damage.
- **Avoid Deep Discharge:** While AGM batteries are more resilient to deep discharge than traditional lead-acid batteries, consistently draining the battery completely can shorten its lifespan. If the vehicle is stored for extended periods, consider using a compatible AGM battery maintainer.
- **Regular Vehicle Use:** Regular driving helps keep the battery charged. Short trips may not fully recharge the battery.

## 8. TROUBLESHOOTING

If you experience issues with your battery, perform the following basic checks:

Symptom	Possible Cause	Solution
Engine cranks slowly or not at all	Low battery charge, loose or corroded terminals	Check terminal connections and clean if necessary. Charge the battery with an appropriate AGM charger.
Headlights are dim	Low battery voltage	Check battery voltage with a multimeter. If low, charge the battery.
Battery warning light on dashboard	Charging system issue (alternator), or battery fault	Check battery voltage. If battery is charged, have your vehicle's charging system inspected by a qualified mechanic.

Your browser does not support the video tag.

Video 8.1: A demonstration of checking battery voltage with a multimeter, showing a reading of 12.7V, which indicates a healthy charge level for troubleshooting purposes.

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

## 9. WARRANTY AND SUPPORT

The MARXON AGM BCI 48 battery comes with a **Three Years Warranty**, providing coverage against manufacturing defects under normal use conditions.

For warranty claims, technical support, or further assistance, please contact MARXON customer service through the retailer where the product was purchased or visit the official MARXON website for contact information.