

## NOCO BG27S

# NOCO Snap-Top BG27 Battery Box User Manual

Model: BG27S

### INTRODUCTION

The NOCO BG27 Snap-Top Battery Box is designed to provide a secure and protective enclosure for Group 27 12-volt batteries. This includes batteries used in marine, automotive, RV, deep-cycle, and lithium-ion applications such as cars, boats, campers, travel trailers, and pontoons.

Engineered with a rugged, snap-lock design, the BG27 offers enhanced durability and simplified installation. It effectively prevents unwanted battery movement, guards against accidental shorting of battery terminals, collects battery acid, and ensures adequate ventilation. The design meets stringent safety standards, including the United States Coast Guard (USCG) Code of Federal Regulations 183.420 and American Boat and Yacht Council (ABYC) E-10.7 specifications.



Figure 1: Front view of the NOCO Snap-Top BG27 Battery Box.

## WHAT'S INCLUDED

The NOCO BG27 Snap-Top Battery Box package includes all necessary components for secure installation:

- BG27 Group 27 Snap-Top Marine Battery Box (Lid and Base)
- 48-Inch Battery Hold-Down Strap
- Battery Mounting Tray
- Four (4) #8x1-Inch Self-Tapping Screws

**NOCO**<sup>®</sup>  
**SNAP-TOP** BATTERY BOX

Figure 2: Exploded view of the NOCO BG27 Battery Box components, including the lid, base, mounting tray, strap, and screws.

SPECIFICATIONS

Key specifications for the NOCO BG27 Snap-Top Battery Box:

Attribute	Value
Product Dimensions (Exterior)	16.69 x 10.06 x 11.88 inches (42.4 x 25.5 x 30.2 cm)
Item Weight	3.16 pounds (1.43 kg)
Compatible Battery Group Size	Group 27
Model Number	BG27S
UPC	046221220100
Manufacturer	NOCO
Country of Origin	USA

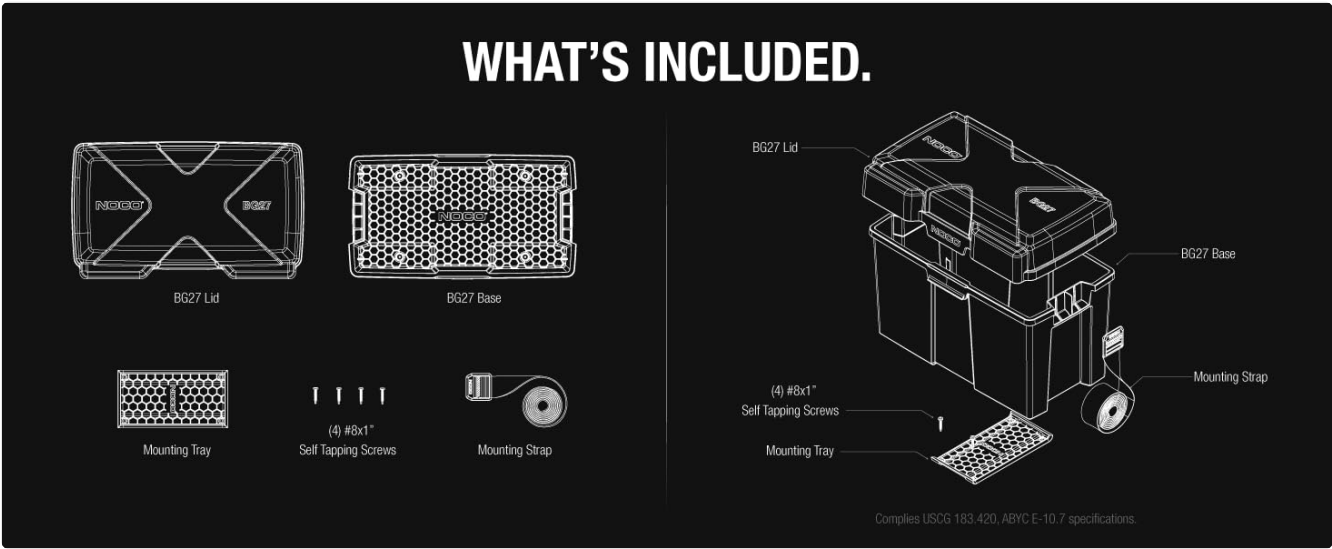


Figure 3: Detailed internal and external dimensions of the BG27 Battery Box.

SETUP AND INSTALLATION

The NOCO BG27 Battery Box offers two primary installation methods for versatility and security:

1. Direct Mount Installation

For direct mounting, the battery box base features pre-drilled internal pilot holes. These allow you to secure the box directly to a mounting surface without the need for a separate battery strap.

1. Position the battery box base on the desired mounting surface.
2. Using the four (4) #8x1-Inch Self-Tapping Screws provided, fasten the base securely through the pilot holes into the mounting surface.

3. Place your Group 27 battery inside the secured base.
4. Align the lid and snap it firmly into place, ensuring all locking tabs are engaged.



Figure 4: Direct mount installation method for the battery box.

## 2. Strap Mount Installation

For more rugged or demanding applications, the battery box can be secured using the provided battery hold-down strap and mounting tray.

1. Place the Battery Mounting Tray on your desired surface.
2. Secure the mounting tray to the surface using appropriate fasteners (not included, as application may vary).
3. Place the battery box (with battery inside and lid secured) onto the mounting tray.
4. Thread the 48-Inch Battery Hold-Down Strap through the designated slots on the battery box and mounting tray.
5. Tighten the strap firmly to secure the battery box to the mounting tray.

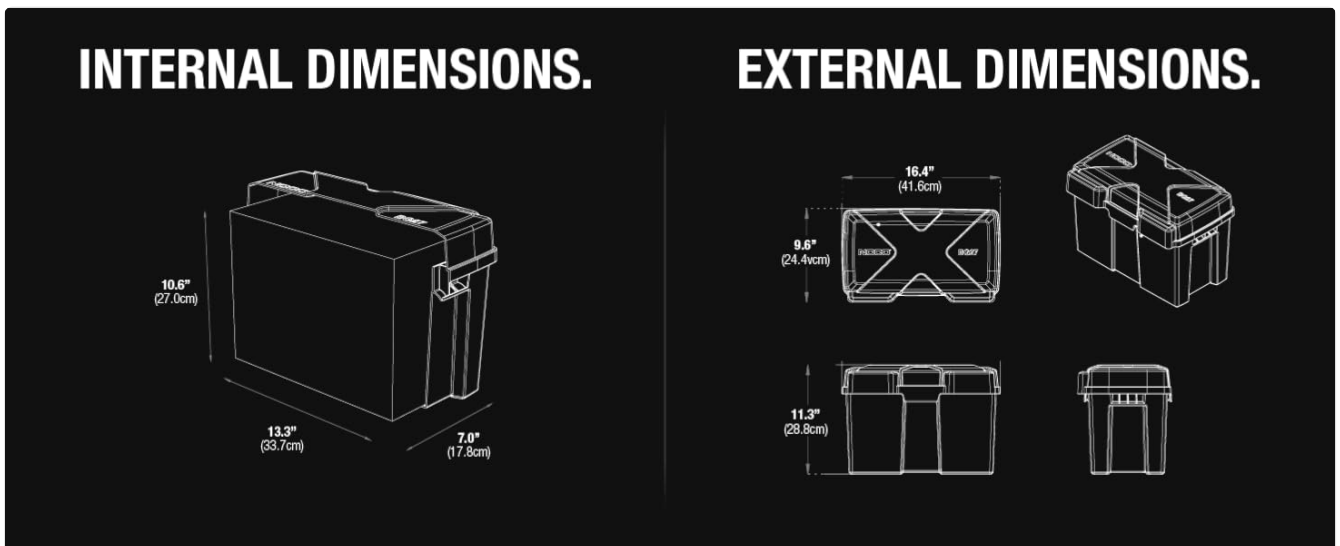


Figure 5: Strap mount installation method for enhanced security.

The battery box features enhanced cable entry ports on the front and sides, allowing for improved cable routing from multiple directions. Optional ventilation holes are also available for additional airflow if needed.

# MAXIMUM VERSATILITY. MULTIPLE CABLE PORTS.



Figure 6: Multiple cable entry ports for versatile wiring configurations.

## OPERATION

The NOCO BG27 Battery Box operates passively by providing a protective enclosure for your battery. Once installed, its primary function is to:

- **Secure the Battery:** Prevent unwanted movement of the battery, especially in mobile applications like marine vessels or RVs.
- **Prevent Shorting:** Isolate battery terminals to prevent accidental short circuits, which can cause damage or fire.
- **Contain Spills:** Collect any potential battery acid leaks or spills, protecting the surrounding environment and equipment.
- **Allow Ventilation:** Provide adequate ventilation to dissipate gases that may be produced by certain battery types, reducing the risk of gas buildup.

Ensure the snap-top lid is always securely fastened to maintain the protective integrity of the box.

## MAINTENANCE

To ensure the longevity and continued effectiveness of your NOCO BG27 Battery Box, follow these simple maintenance guidelines:

- **Regular Inspection:** Periodically inspect the battery box for any signs of damage, cracks, or wear. Ensure the lid snaps securely and the mounting is stable.
- **Cleanliness:** Keep the exterior of the battery box clean. If any battery acid spills occur inside, clean them immediately and thoroughly according to battery manufacturer guidelines.
- **Ventilation:** Ensure that the ventilation holes (if utilized) are clear and unobstructed to allow for proper airflow.
- **Strap Tension (if applicable):** If using the strap mount, periodically check the tension of the hold-down strap to ensure the battery remains securely fastened.

Proper maintenance helps ensure the battery box continues to provide optimal protection for your battery and surrounding environment.

## TROUBLESHOOTING

While the NOCO BG27 Battery Box is designed for reliability, here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
Lid does not snap securely	Misalignment; debris in latch mechanism; damaged latch	Ensure the lid is correctly aligned with the base. Check for any obstructions in the latch areas and clear them. If latches are damaged, the box may need replacement.
Battery moves inside the box	Incorrect battery size; loose strap (if used); improper mounting	Verify that your battery is a Group 27 size. If using the strap mount, tighten the strap. Ensure the box is securely mounted to its surface.
Cables are difficult to route	Incorrect cable entry port selection; excessive cable thickness	Utilize the multiple cable entry ports (front and sides) for optimal routing. Ensure cables are not excessively thick for the designated openings.

If issues persist, refer to the manufacturer's support resources.

## SAFETY INFORMATION

The NOCO BG27 Battery Box is designed to enhance safety when storing and using batteries. Adhere to these safety guidelines:

- **Battery Compatibility:** Only use the battery box with Group 27 batteries. Using incompatible sizes may compromise protection.
- **Secure Installation:** Always ensure the battery box is securely mounted to prevent movement, especially in vehicles or boats.
- **Lid Security:** Keep the snap-top lid firmly closed and latched to prevent accidental contact with battery terminals and to contain any potential spills.

- **Ventilation:** Ensure adequate ventilation around the battery box, especially if using lead-acid batteries that can produce hydrogen gas.
- **Acid Spills:** In case of battery acid spills, follow proper safety procedures for handling corrosive materials, including wearing protective gear and neutralizing the acid. The box is designed to contain minor spills.
- **Impact Resistance:** While the box is impact-resistant, avoid subjecting it to extreme forces that could compromise its structural integrity.

# ULTIMATE BATTERY PROTECTION.

IMPACT RESISTANT DOWN TO -20°F.

RESISTANT TO

ACID.

GAS.

OIL.

UV.

Figure 7: The reinforced structure provides ultimate battery protection against impacts, acid, gas, oil, and UV.

## COMPLIANCE AND CERTIFICATIONS

The NOCO BG27 Snap-Top Battery Box is designed and manufactured to meet important industry standards for safety and performance:

- **United States Coast Guard (USCG) Code of Federal Regulations 183.420:** This regulation pertains to the battery installation requirements for boats, ensuring safety against ignition of flammable vapors.



- **American Boat and Yacht Council (ABYC) E-10.7 Specifications:** ABYC standards provide guidelines for the design, construction, and maintenance of boats, including electrical systems and battery installations, to enhance safety.

Meeting these specifications ensures the battery box is suitable for marine and other demanding applications where safety and compliance are paramount.



Figure 8: The BG27 Battery Box is tested and certified to meet USCG and ABYC standards.

## WARRANTY AND SUPPORT

For detailed warranty information regarding your NOCO BG27 Snap-Top Battery Box, please refer to the documentation included with your purchase or visit the official NOCO website. Warranty terms typically cover manufacturing defects and material flaws.

For technical support, product inquiries, or to access additional resources, please visit the NOCO support page or contact their customer service directly. Contact information can usually be found on the product packaging or the official NOCO website.

**NOCO Official Website:** <https://no.co/>

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This manual is for informational purposes only. Specifications are subject to change without notice.

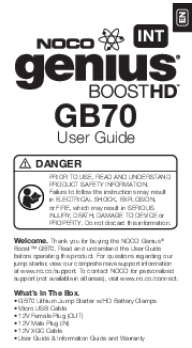




## Related Documents - BG27S



### [NOCO Genius Multi-Bank Series Battery Charger User Guide & Warranty](#)

Comprehensive user guide and warranty information for NOCO Genius Multi-Bank Series battery chargers (GENIUS2X2, GENIUS2X4), covering safety, charging modes, technical specifications, and warranty details.



	<p><a href="#">NOCO Genius Boost HD GB70 Lithium Jump Starter User Guide</a></p> <p>Comprehensive user guide for the NOCO Genius Boost HD GB70 lithium jump starter, featuring spark-proof technology, reverse polarity protection, USB power bank, and LED flashlight for high-displacement gas and diesel engines.</p>
	<p><a href="#">NOCO GB40 BOOST PLUS Jump Starter User Guide</a></p> <p>This document provides essential information for the NOCO GB40 BOOST PLUS 1000 Amp 12-Volt UltraSafe Lithium Jump Starter. It covers critical safety warnings, detailed operating instructions, troubleshooting tips, technical specifications, and warranty details to ensure safe and effective use of the device.</p>
	<p><a href="#">NOCO GENIUS5 Smart Battery Charger User Guide and Warranty</a></p> <p>Comprehensive user guide and warranty information for the NOCO GENIUS5 smart battery charger. Learn about its features, charging modes, safety precautions, and technical specifications for 6V and 12V lead-acid, AGM, and Lithium batteries.</p>
	<p><a href="#">NOCO Genius BOOST+ GB40 Portable Jump Starter User Guide</a></p> <p>This user guide and warranty provides essential safety information, operating instructions, troubleshooting tips, and technical specifications for the NOCO Genius BOOST+ GB40 12V 1000A portable lithium jump starter, designed for 12-volt lead-acid batteries.</p>
	<p><a href="#">NOCO Genius Boost HD GB70 Portable Lithium Jump Starter User Guide</a></p> <p>Discover the NOCO Genius Boost HD GB70, an ultra-compact and powerful portable lithium jump starter for high-displacement gas and diesel engines. This user guide provides essential safety information, setup instructions, jump-starting procedures, charging details, and technical specifications for the GB70, featuring spark-proof technology, reverse polarity protection, a USB power bank, 12V output, and a high-intensity LED flashlight.</p>

Documents - NOCO – BG27S

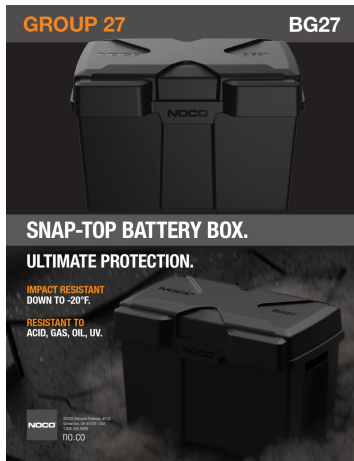


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GROUP 27 BG27 SNAP-TOP BATTERY BOX. ULTIMATE PROTECTION. IMPACT RESISTANT DOWN TO -20F. RESISTANT TO ACID, GAS, OIL, UV. no.co ALL NEW DESIGN. REINFORCED STRUCTURE. IMPROVED LOCKING TABS. HEAVY-DUTY HANDLES. EASY INSTALLATION. MULTIPLE OPTIONS FOR INSTALLATION. OPTION 1: DIRECT MOUNT Use predete...

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