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NOCO GB500

NOCO Boost Max GB500: 6250A UltraSafe Jump Starter Instruction Manual

Model: GB500 | Brand: NOCO

INTRODUCTION

The NOCO Boost Max GB500 is a powerful and versatile lithium jump starter designed for commercial and industrial applications. It delivers an incredible 6,250 amps of peak starting power, capable of jump starting gasoline and diesel engines up to 45 liters. This unit is engineered for large vehicles including Class 8 trucks, buses, motorhomes, agricultural equipment, construction machinery, mining vehicles, and vocational fleets, supporting 6, 8, 12, and 16-cylinder engines. Featuring NOCO's patented UltraSafe Technology, it ensures safe, mistake-free operation with spark-proof connections and reverse polarity protection. Beyond jump starting, the GB500 functions as a portable power bank with integrated USB output and includes a precision-engineered 2,200-lumen LED flashlight with multiple light modes. This manual provides essential information for the safe and effective use of your GB500.

WHAT'S IN THE BOX

The NOCO Boost Max GB500 package includes the following components:

- NOCO Boost Max GB500 6250A 12V/24V UltraSafe Lithium Jump Starter Pack
- 56W Power Adapter with interchangeable 60-inch (1.5m) AC Cords for Australia (Type I), Europe (Type C), North America (Type A), and the United Kingdom (Type G)
- XGC Kit
- Max Protection EVA Carrying Case
- 1-Year Limited Warranty

WHAT'S IN THE BOX.



TYPE A NA

TYPE I AU



56W POWER
ADAPTER



TYPE C EU



TYPE G UK



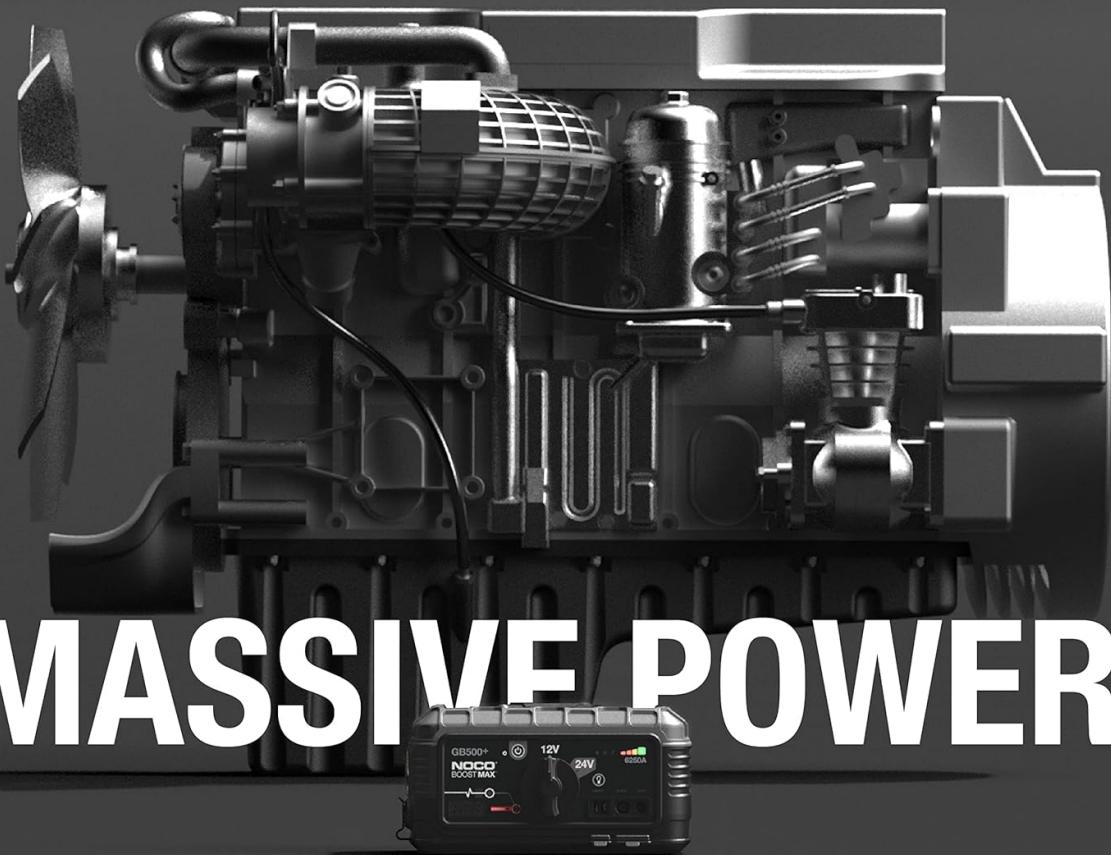
EVA CASE



Image: All items included in the NOCO Boost Max GB500 package.

PRODUCT FEATURES

- **BOOST MAX SERIES:** Delivers up to 6,250 amps to start gas and diesel engines up to 45L, engineered for commercial and industrial engine starts.
- **ULTRASAFE TECHNOLOGY:** Patented spark-proof and reverse polarity protection ensures safe, mistake-free connections on any 12V or 24V battery.
- **COMMERCIAL-GRADE POWER:** Capable of starting Class 8 trucks, buses, motorhomes, agricultural, construction, mining, and vocational equipment with 6, 8, 12, and 16-cylinder engines.
- **PORTABLE POWER BANK:** Integrated power bank provides emergency power to smartphones, tablets, and other essential devices. Fully recharges in 5 hours with the included 56W power adapter.
- **INTEGRATED LED FLASHLIGHT:** Features a 2,200-lumen LED with 7 light modes, including SOS and strobe, for roadside repairs, emergencies, or low-light environments.
- **COMPACT FOR ITS CLASS:** Weighs only 15 lb, offering unmatched starting power in a compact design, replacing bulkier alternatives.



MASSIVE POWER.

**12/24
VOLT**

**LITHIUM
POWERED**

**45.0L+
GAS + DIESEL**

Image: The NOCO Boost Max GB500 demonstrating its capability to start large engines.



Image: The GB500's multi-functional use as a power bank and 2200 lumen flashlight.

SAFETY INFORMATION

The GB500 is equipped with NOCO's patented UltraSafe Technology to ensure safe operation. This includes:

- **Spark-Proof Connections:** Prevents sparks from occurring when the clamps touch or are connected incorrectly.
- **Reverse Polarity Protection:** Protects against damage if the clamps are connected to the wrong battery terminals.
- **Overcharge Protection:** Prevents the internal battery from being overcharged.
- **Over-Temperature Protection:** Shuts down the unit if it gets too hot during operation.

Always read and understand the user manual completely before operating the device. Use the product only as intended. Keep out of reach of children. Do not submerge in water. Do not operate in explosive atmospheres.

SPARK-PROOF. REVERSE POLARITY PROTECTION.

ULTRA
SAFE
2.0



**MISTAKE-FREE
DESIGN.**

**THERMAL
EFFICIENCY.**

**POWER
MANAGEMENT.**

Image: UltraSafe Technology features of the GB500, including spark-proof clamps.

SETUP

- Charge the GB500:** Before first use, fully charge the GB500 using the included 56W power adapter. Connect the power adapter to the 'IN' port on the GB500 and plug it into a wall outlet. The charge indicator LEDs will illuminate and chase, indicating charging status. All LEDs will be solid when fully charged.
- Connect Clamps:** Plug the XGC cables into the 12V OUT port on the GB500. Ensure a secure connection.
- Inspect Battery:** Ensure the vehicle battery terminals are clean and free of corrosion.

OPERATING INSTRUCTIONS: JUMP STARTING

- Connect Clamps to Battery:** Connect the red (positive) clamp to the positive (+) battery terminal and the black (negative) clamp to the negative (-) battery terminal. The GB500 will detect the battery voltage (12V or 24V).
- Power On:** Press the Power Button on the GB500. The charge indicator LEDs will illuminate.
- Start Vehicle:** Attempt to start the vehicle. If the vehicle does not start, wait 30 seconds and try again.

4. **Override Mode (if needed):** If the GB500 does not detect a battery or the battery is below 2V, the error LED may illuminate. To manually override, press and hold the Manual Override button for three (3) seconds until the Charge LEDs illuminate. This bypasses safety features, so use with extreme caution.
5. **Disconnect Clamps:** Once the vehicle starts, disconnect the negative (-) clamp first, then the positive (+) clamp.

Your browser does not support the video tag.

Video: Official NOCO Boost Max Jump Starters - Hero Video. This video demonstrates the general usage and features of the NOCO Boost Max jump starters.

Your browser does not support the video tag.

Video: Boost Max feature in use, What does it mean? This video explains the indicators and features of the Boost Max during operation.

CHARGING THE GB500

The GB500 recharges fully in approximately 5 hours using the included 56W XGC power adapter. It can also be recharged via the USB-C IN/OUT port, though this may take longer depending on the power source.



Image: Rapid charging capabilities of the GB500.

USING THE LED FLASHLIGHT

The GB500 features a powerful 2,200-lumen LED flashlight with seven light modes:

- 100% Brightness
- 50% Brightness
- 10% Brightness
- SOS
- Blink
- Strobe
- Off

To cycle through the modes, press the flashlight button located on the unit. This feature is ideal for illuminating work areas, signaling for help, or increasing visibility in emergencies.



Image: The GB500's integrated LED flashlight with various modes.

PORTABLE POWER BANK FUNCTIONALITY

The GB500 can serve as a portable power bank to charge your USB devices. It features both a USB-A OUT

port (10W) and a USB-C IN/OUT port (60W). Connect your device's USB charging cable to the appropriate port on the GB500 to begin charging.

MAINTENANCE

- **Charging:** Keep the GB500 charged. It is recommended to fully charge the unit after each use and at least every 3-6 months to maintain optimal battery health.
- **Storage:** Store the GB500 in its custom EVA protective case in a cool, dry place. Avoid extreme temperatures.
- **Cleaning:** Clean the unit with a soft, dry cloth. Do not use harsh chemicals or abrasive materials.



Image: The GB500 in its protective EVA case, highlighting its portability.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Unit does not turn on.	Battery is completely discharged.	Charge the GB500 fully.
Vehicle does not start.	Poor clamp connection, severely discharged battery, or incorrect voltage.	Ensure clamps are securely connected. Try Manual Override mode (use with caution). Verify vehicle battery voltage matches GB500 setting.
Error LED illuminates.	Reverse polarity, battery voltage too low, or clamps are touching.	Check clamp connections. Ensure clamps are not touching. If battery is below 2V, use Manual Override mode (with caution).
Short jumper cables.	Standard cable length may be insufficient for some large vehicles.	Consider purchasing longer XGC extension cables from NOCO for improved reach.

SPECIFICATIONS

- **Model:** GB500
- **Peak Output Current:** 6250 Amps
- **Voltage:** 12 Volts & 24 Volts (Auto-detect)
- **Battery Cell Composition:** Lithium Ion
- **Product Dimensions:** 20.08"D x 14.25"W x 12.4"H
- **Item Weight:** 26 Pounds
- **LED Flashlight:** 2200 Lumens
- **USB Output:** 10W (USB-A), 60W (USB-C In/Out)
- **Engine Compatibility:** Up to 45L Gas and Diesel Engines
- **Recharge Time:** Approximately 5 hours (with 56W XGC adapter)
- **Automotive Fit Type:** Universal Fit

WARRANTY AND SUPPORT

The NOCO Boost Max GB500 comes with a 1-year limited warranty. For technical support, warranty claims, or additional product information, please visit the official NOCO website or contact their customer service.

Official NOCO Store: [NOCO Store on Amazon](#)