

Black+Decker BXGND6300E

BLACK+DECKER BXGND6300E Diesel Generator

User Manual

Model: BXGND6300E

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your BLACK+DECKER BXGND6300E Diesel Generator. This 6300W diesel generator features an Automatic Transfer Switch (ATS) for automatic power activation during outages and is suitable for solar system support, providing stable power with Automatic Voltage Regulation (AVR).

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions could result in serious injury or death.

- **Exhaust Fumes:** Generator exhaust contains carbon monoxide, a colorless, odorless, poisonous gas. Never operate the generator indoors or in enclosed spaces. Ensure adequate ventilation when operating outdoors.
- **Electrical Shock:** Do not operate the generator in wet conditions. Ensure all electrical connections are secure and properly grounded. Never touch live electrical parts.
- **Fire Hazard:** Diesel fuel is flammable. Always refuel in a well-ventilated area with the engine off and cool. Do not smoke or allow open flames near the generator. Store fuel in approved containers.
- **Hot Surfaces:** The generator engine and muffler become very hot during operation and remain hot for a period after shutdown. Avoid touching hot surfaces to prevent burns.
- **Moving Parts:** Keep hands, feet, and clothing away from moving parts such as the fan and belts.
- **Children and Pets:** Keep children and pets away from the generator at all times.

3. PRODUCT OVERVIEW AND COMPONENTS

The BLACK+DECKER BXGND6300E is a robust diesel generator designed for reliable power supply.

Familiarize yourself with its main components for safe operation and maintenance.

GENERADOR ELÉCTRICO

DIÉSEL

ATS - Respaldo Solar
72 dBA (insonorizado)
Apto para respaldo solar

6300W

**Autonomía:
10 horas**



Figure 3.1: Overall view of the BLACK+DECKER BXGND6300E Diesel Generator.



Figure 3.2: Close-up of the generator's control panel, showing the display, start/stop buttons, key switch, and power outlets.



Figure 3.3: Engine compartment with the maintenance door open, showing the engine, oil fill, and fuel system components.

4. SETUP

Before starting the generator, ensure it is properly set up according to these instructions.

4.1 Unpacking and Placement

- Carefully remove the generator from its packaging.
- Place the generator on a firm, level surface outdoors, away from windows, doors, and vents. Ensure at least 1 meter (3 feet) of clear space around the generator for proper ventilation.

4.2 Oil Filling

The generator requires engine oil for operation. Use Motul 15W40 mineral oil.

1. Open the maintenance cover on the side of the generator.
2. Unscrew the oil filler cap.
3. Using a funnel, carefully fill the oil reservoir with the recommended oil until it reaches the upper mark on the

dipstick. Do not overfill.

4. Re-insert the dipstick without screwing it in to check the oil level. The oil level should be at the upper mark.
5. Once filled, screw the oil filler cap back on securely and close the maintenance cover.

4.3 Fuel Filling

The generator operates on diesel fuel. Ensure you use clean, fresh diesel fuel.

1. Unscrew the fuel tank cap located on the top of the generator.
2. Using a clean funnel, carefully pour diesel fuel into the tank. Do not overfill; leave some space for expansion.
3. Wipe up any spilled fuel immediately and thoroughly before proceeding.
4. Securely replace the fuel tank cap.

4.4 Purging the Fuel Circuit

Before the first start or after running out of fuel, the fuel circuit may need to be purged of air.

1. Locate the fuel line connection to the fuel pump.
2. Using two pliers, gently pinch the fuel tube and open the clamp to release the connection.
3. Allow fuel to flow out until it is free of air bubbles, indicating the tube is full of fuel.
4. Reconnect the fuel tube and secure the clamp.

5. OPERATING INSTRUCTIONS

Follow these steps to start and operate your generator safely.

5.1 Starting the Generator

1. Ensure the generator is on a level surface and all connections are secure.
2. Insert the key into the ignition switch on the control panel.
3. Turn the key to the 'START' position. The display screen will illuminate.
4. Press the green 'START' button on the control panel. After a brief countdown, the generator will begin to crank and start.
5. Allow the generator to run for a few minutes to warm up before connecting any electrical loads.

5.2 Stopping the Generator

1. Disconnect all electrical loads from the generator.
2. Press the red 'STOP' button on the control panel. After a brief countdown, the generator will shut down.
3. Turn the ignition key to the 'OFF' position and remove it for security.

5.3 Automatic Transfer Switch (ATS) Functionality

The ATS system allows the generator to automatically activate during a power outage.

- Ensure the ATS switch on the control panel is set to 'AUTO'.
- When the main power supply fails, the ATS system will detect the outage and automatically start the

generator.

- Once main power is restored, the ATS system will automatically shut down the generator and transfer the load back to the main supply.

5.4 Solar System Support

This generator can function as a backup for photovoltaic installations, automatically switching to charge batteries when the main electrical grid is unavailable.

6. MAINTENANCE

Regular maintenance is crucial for the longevity and reliable performance of your generator.

6.1 Daily Checks (Before Each Use)

- Check engine oil level.
- Check fuel level.
- Inspect for any visible leaks (oil, fuel).
- Check air filter for cleanliness.

6.2 Every 50 Hours or Monthly

- Change engine oil.
- Clean or replace air filter.
- Inspect battery terminals and cables.

6.3 Every 200 Hours or Annually

- Replace fuel filter.
- Inspect and adjust valve clearance (professional service recommended).
- Clean fuel tank and fuel lines.
- Check all fasteners for tightness.

7. TROUBLESHOOTING

Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
Generator will not start	No fuel Low oil level Battery discharged Fuel system air-locked	Add diesel fuel Add engine oil Charge or replace battery Purge fuel system (Section 4.4)
Engine starts but stops quickly	Low oil level Clogged fuel filter Overload	Check and add oil Replace fuel filter Reduce electrical load

Problem	Possible Cause	Solution
No power output	Circuit breaker tripped Overload Faulty connection	Reset circuit breaker Reduce load Check all electrical connections
Excessive smoke	Wrong oil type/level Clogged air filter Engine malfunction	Use correct oil, check level Clean/replace air filter Contact service technician

8. SPECIFICATIONS

Key technical specifications for the BLACK+DECKER BXGND6300E Diesel Generator.



Figure 8.1: Generator dimensions: 92 cm (length) x 52 cm (width) x 76 cm (height).

- **Model Number:** BXGND6300E
- **Power Output (Max):** 6300 Watts
- **Power Output (Nominal):** 6000 Watts
- **Voltage:** 230 Volts
- **Fuel Type:** Diesel
- **Engine:** 498cc, 4-stroke diesel
- **Fuel Tank Capacity:** 12 Liters
- **Autonomy (50% load):** Up to 10 hours

- **Noise Level:** 72 dB (at 7 meters)
- **Dimensions (L x W x H):** 92 x 52 x 76 cm
- **Weight:** 152 kg
- **Battery:** 1 x 12V (included, Lithium-Phosphate type)
- **Alternator:** 100% Copper winding, AVR (Automatic Voltage Regulation)

9. OFFICIAL PRODUCT VIDEO: SETUP AND OPERATION

Watch this video for a visual guide on how to set up and operate your BLACK+DECKER BXGND6300E Diesel Generator, including oil and fuel filling, fuel circuit purging, and starting/stopping procedures.

Your browser does not support the video tag.

Video 9.1: Step-by-step guide on preparing and starting the generator.

10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or visit the official Black+Decker website. Keep your purchase receipt as proof of purchase.