

Black+Decker BXGND7900E

BLACK+DECKER DUAL POWER BXGND7900E Diesel Generator User Manual

Model: BXGND7900E

1. INTRODUCTION

Thank you for choosing the BLACK+DECKER DUAL POWER BXGND7900E Diesel Generator. This manual provides essential information for the safe operation, maintenance, and troubleshooting of your generator. Please read this manual thoroughly before operating the generator to ensure proper use and to prevent injury or damage. Keep this manual in a safe place for future reference.

2. SAFETY INFORMATION

Operating a generator can be dangerous if proper safety precautions are not followed. Always prioritize safety to prevent serious injury or death.

General Safety Rules:

- **Read the Manual:** Understand all instructions and warnings before use.
- **Carbon Monoxide Hazard:** Generators produce carbon monoxide, an odorless, colorless, poisonous gas. Operate generators outdoors only, far away from windows, doors, and vents. Never operate indoors or in partially enclosed spaces.
- **Electrical Shock Hazard:** Never operate the generator in wet conditions. Ensure all connections are dry and secure. Do not touch the generator with wet hands.
- **Fire Hazard:** Diesel fuel is flammable. 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 some time after shutdown. Avoid touching hot surfaces to prevent burns.
- **Grounding:** Always properly ground the generator to prevent electrical shock. Consult a qualified electrician if unsure.
- **Children and Pets:** Keep children and pets away from the generator, especially during operation.

- **Maintenance:** Perform all maintenance as instructed in this manual. Disconnect the spark plug wire before performing any maintenance to prevent accidental starting.

3. PRODUCT FEATURES

The BLACK+DECKER BXGND7900E Diesel Generator is designed for reliable power supply, featuring:

- **Dual Power Output:** Provides both 400V (7.5kVA nominal) and 230V (5.5kW nominal) power.
- **Robust Engine:** Equipped with a 4-stroke, 498cc diesel engine.
- **Fuel Capacity:** Features a 12-liter fuel tank for extended operation.
- **Extended Autonomy:** Up to 10 hours of runtime at 50% load.
- **Low Noise Operation:** Operates at 70 dBA at 7 meters.
- **Multiple Outlets:** Includes 2 power outlets for versatile connectivity.
- **Electric Start:** For convenient starting.



Figure 1: Front view of the generator with control panel.

4. SETUP AND PREPARATION

4.1 Unpacking and Inspection

- Carefully remove the generator from its packaging.
- Inspect for any shipping damage. Contact your dealer immediately if damage is found.
- Ensure all components listed in the packing list are present.

4.2 Placement

- Place the generator on a firm, level surface.
- Ensure adequate clearance around the generator for proper ventilation and cooling.
- Operate the generator outdoors only, in a well-ventilated area, away from doors, windows, and vents to prevent carbon monoxide buildup.



Figure 2: Generator dimensions for placement planning.

4.3 Adding Engine Oil

- The generator is shipped without engine oil. You must add the recommended type and amount of oil before starting.
- Refer to the engine oil specifications section for the correct oil type and capacity.
- Remove the oil filler cap/dipstick.
- Slowly pour the recommended oil into the engine until it reaches the upper mark on the dipstick. Do not overfill.
- Securely replace the oil filler cap/dipstick.

4.4 Adding Fuel (Diesel)

- Ensure the generator is off and cool before refueling.

- Use only clean, fresh diesel fuel. Do not mix diesel with gasoline or other fuels.
- Open the fuel tank cap.
- Carefully pour diesel fuel into the tank, avoiding spills. Do not fill above the fuel filter screen or the maximum fill line.
- Securely replace the fuel tank cap.
- Wipe up any spilled fuel immediately.

5. OPERATING INSTRUCTIONS

5.1 Pre-Start Checklist

- Check engine oil level.
- Check fuel level.
- Ensure all electrical loads are disconnected from the generator outlets.
- Verify the generator is properly grounded.
- Confirm the generator is in a safe, well-ventilated outdoor location.

5.2 Starting the Generator (Electric Start)



Figure 3: Detailed view of the generator control panel.

1. Ensure the main circuit breaker on the control panel is in the "OFF" position.
2. Turn the fuel valve to the "ON" position.
3. Insert the key into the ignition switch.
4. Turn the key to the "START" position and hold until the engine starts. Do not crank for more than 5 seconds at a time.

If the engine does not start, wait 10 seconds before trying again.

5. Once the engine starts, release the key, and it will return to the "RUN" position.
6. Allow the engine to warm up for a few minutes before connecting any electrical loads.

5.3 Connecting Electrical Loads

- After the generator has warmed up, switch the main circuit breaker to the "ON" position.
- Plug your appliances or extension cords into the appropriate outlets (230V or 400V).
- Do not overload the generator. Ensure the total wattage of connected devices does not exceed the generator's rated output.

5.4 Stopping the Generator

1. Disconnect all electrical loads from the generator outlets.
2. Switch the main circuit breaker to the "OFF" position.
3. Allow the generator to run for a few minutes without load to cool down.
4. Turn the ignition key to the "OFF" position.
5. Turn the fuel valve to the "OFF" position.

6. MAINTENANCE

Regular maintenance is crucial for the longevity and reliable operation of your generator. Always ensure the generator is off, cool, and the spark plug wire is disconnected before performing any maintenance.

Maintenance Schedule:

Item	Before Each Use	Every 50 Hours / Monthly	Every 100 Hours / 3 Months	Every 300 Hours / Annually
Check Engine Oil Level	✓			
Check Fuel Level	✓			
Inspect Air Filter		Clean		Replace
Change Engine Oil			✓	
Check Fuel Filter			Inspect	Replace
Inspect Battery		✓		

Note: More frequent maintenance may be required in dusty or harsh operating conditions.

7. TROUBLESHOOTING

This section provides solutions to common problems you might encounter with your generator. For issues not listed here, please contact customer support.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Engine does not start	No fuel Low engine oil Battery discharged Ignition switch off Fuel valve closed	Add diesel fuel Add engine oil Charge or replace battery Turn ignition switch to "RUN" Open fuel valve
No power output	Circuit breaker tripped Overload Faulty connection	Reset circuit breaker Reduce connected load Check all electrical connections
Engine runs rough	Stale or contaminated fuel Dirty air filter Low oil	Drain and refill with fresh diesel Clean or replace air filter Check and add oil

8. TECHNICAL SPECIFICATIONS

Specification	Value
Model Number	BXGND7900E
Brand	Black+Decker
Engine Type	4-stroke
Engine Displacement	498 cc
Fuel Type	Diesel
Fuel Tank Volume	12 Liters
Rated Power (400V)	7.5 kVA
Maximum Power (400V)	7.9 kVA
Rated Power (230V)	5.5 kW
Maximum Power (230V)	6.0 kW
Voltage	230V / 400V
Frequency	50 Hz
Run Time (50% load)	10 hours
Noise Level (at 7m)	70 dBA
Product Weight	152 Kilograms
Dimensions (L x W x H)	92 cm x 52 cm x 76 cm
Number of Outlets	2
Starting System	Compression (Electric Start)

9. WARRANTY AND SUPPORT

Your BLACK+DECKER BXGND7900E Diesel Generator is covered by a manufacturer's warranty. Please refer to the warranty card included with your product for specific terms and conditions.

For technical assistance, spare parts, or warranty claims, please contact BLACK+DECKER customer support or visit their official website. Ensure you have your model number (BXGND7900E) and proof of purchase available when contacting support.

Official Website: www.blackanddecker.com