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› [Pulsar](#) /

› [Pulsar GD10KBN 10500W Dual Fuel Portable Inverter Generator User Manual](#)

## Pulsar GD10KBN

# Pulsar GD10KBN 10500W Dual Fuel Portable Inverter Generator User Manual

Model: GD10KBN

## 1. INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient operation, setup, maintenance, and troubleshooting of your Pulsar GD10KBN 10500W Dual Fuel Portable Inverter Generator. Please read this manual thoroughly before operating the generator to ensure proper use and to prevent injury or damage.

The Pulsar GD10KBN is designed to provide reliable portable power for residential backup, camping, and job site applications. It features dual-fuel capability, allowing operation on either gasoline or propane, and delivers 10,500 peak watts and 8,000 running watts.

## 2. SAFETY INFORMATION

**WARNING: Improper operation of this generator can result in serious injury or death. Always follow all safety precautions.**

- **Carbon Monoxide Hazard:** Generators produce carbon monoxide, an odorless, colorless gas that can kill you. Operate the generator outdoors only, far away from windows, doors, and vents.
- **Fire Hazard:** Gasoline and propane are highly flammable. Do not refuel while the engine is running or hot. Store fuel in approved containers in a well-ventilated area.
- **Electrical Shock Hazard:** Do not operate the generator in wet conditions. Ensure all electrical connections are secure and properly grounded. Overload protection and short circuit protection features are integrated, but proper usage is essential.
- **Hot Surfaces:** The generator engine and muffler become very hot during operation and remain hot for a period after shutdown. Avoid contact with hot surfaces.
- **Read the Manual:** Familiarize yourself with all controls and safety decals before operating.
- **Hazardous Materials:** Transportation of this item is subject to hazardous materials regulations. Handle with care.

### 3. PRODUCT OVERVIEW

The Pulsar GD10KBN is a robust dual-fuel inverter generator designed for versatility and efficiency. Key components and features are detailed below.

#### 3.1 Key Features

- **Dual Fuel Capability:** Operates on gasoline or propane.
- **High Power Output:** 10,500 Peak Watts / 8,000 Running Watts (Gasoline); 9,400 Peak Watts / 7,200 Running Watts (Propane).
- **Inverter Technology:** Provides clean power suitable for sensitive electronics.
- **Digital Multimeter:** Displays voltage, frequency, total hours run, and hours until recommended maintenance.
- **RV Ready:** Equipped with a 15-50R outlet for recreational vehicle use.
- **Low Idle Control:** Maximizes run times and fuel efficiency.
- **Voltage Selection:** Supports 120V or 240V output.
- **Portability:** Integrated wheels and handles for easy transport.
- **Safety Features:** Automatic Shut Down, Automatic Voltage Regulation, Low Oil Shutdown, Overload Protection, Short Circuit Protection.

#### 3.2 Component Identification



Figure 3.2.1: Front view of the Pulsar GD10KBN generator, showing the control panel, outlets, and fuel input.



Figure 3.2.2: Detailed view of the control panel, highlighting the parallel ready outlets, electric start switch, and LPG inlet for propane connection.



Figure 3.2.3: Rear view of the generator, illustrating the engine, exhaust, and propane regulator connection point.

## 4. SETUP

Before operating your generator, proper setup is essential for safety and performance.

### 4.1 Unpacking and Assembly

1. Carefully remove the generator from its packaging. The unit is heavy and may require two people to lift or a ramp for removal from a pallet.
2. Attach the wheels and handles according to the instructions provided in the separate assembly guide.

### 4.2 Adding Engine Oil

The generator is shipped without engine oil. You must add the correct amount and type of oil before the first start.

1. Place the generator on a level surface.
2. Locate the oil fill cap/dipstick.
3. Add the recommended engine oil (e.g., 5W-30 synthetic) to the crankcase until it reaches the upper mark on the dipstick. Do not overfill.

## 4.3 Fuel Connection

The GD10KBN operates on either gasoline or propane.

- **For Gasoline Operation:**

- a. Ensure the generator is off and cool.
- b. Fill the fuel tank with fresh, unleaded gasoline (minimum 87 octane). Do not overfill.

- **For Propane Operation:**

- a. Connect a standard 20lb (or larger) propane tank to the LPG inlet on the generator using the provided hose.
- b. Ensure all connections are tight to prevent leaks.
- c. Open the valve on the propane tank slowly.

## 4.4 Battery Connection

For electric start functionality, ensure the battery is properly connected.

1. Locate the battery compartment.
2. Connect the positive (+) battery cable (red) to the positive terminal on the battery.
3. Connect the negative (-) battery cable (black) to the negative terminal on the battery.
4. Ensure connections are secure.

## 5. OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation of your Pulsar GD10KBN generator.

### 5.1 Starting the Generator

1. **Placement:** Position the generator outdoors in a well-ventilated area, away from any structures, windows, or vents.
2. **Fuel Selection:**
  - If using gasoline, ensure the fuel valve is open.
  - If using propane, ensure the propane tank valve is open and the hose is securely connected.
3. **Choke:** Move the choke lever to the "CHOKE" position (cold start).
4. **Engine Switch:** Turn the engine switch to the "ON" position.
5. **Starting Method:**
  - **Electric Start:** Press and hold the "START" button until the engine starts.
  - **Recoil Start:** Pull the recoil starter handle firmly and steadily until the engine starts.
6. **Choke Adjustment:** Once the engine starts, slowly move the choke lever to the "RUN" position.

### 5.2 Connecting Electrical Loads

Once the generator is running stably, you can connect your electrical devices.

1. Ensure all appliances are turned off before plugging them into the generator.
2. Plug in your devices one at a time, starting with the highest wattage items.

3. Monitor the digital multimeter for voltage and frequency readings.
4. Do not exceed the generator's rated running wattage (8,000W on gasoline, 7,200W on propane). Overloading will trip the circuit breakers.

## REFERENCE WATTAGE

Appliance	LED/LCD Display	Refrigerator	Microwave	Electric Grill	Washing Machine	Central AC 3 Ton
Running Watts	150	700	1000	1650	1150	5400
Starting Watts	--	2200	3500	--	2250	7200

Figure 5.2.1: Visual representation of available outlets (30A AC 120V/240V, 20A AC 120V, 50A AC 120V/240V), approximate run time, engine size, and fuel efficiency.

## 5.3 Low Idle Control

The generator features a low idle control switch. When activated, the engine RPM will automatically adjust based on the load, conserving fuel and reducing noise. For maximum power output or when starting high-demand appliances, it may be beneficial to turn low idle control off.

## 5.4 Shutting Down the Generator

1. Turn off and unplug all connected electrical loads.
2. Allow the generator to run for a few minutes without load to cool down.
3. Turn the engine switch to the "OFF" position.
4. If using propane, close the valve on the propane tank.
5. If storing for an extended period, refer to the maintenance section for proper storage procedures.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your Pulsar GD10KBN generator.

### 6.1 Engine Oil Change

Perform the first oil change after the initial 5 hours of operation (break-in period), and subsequent changes every 50-100 hours or annually, whichever comes first.

1. Ensure the engine is warm but not hot.
2. Place a drain pan under the oil drain plug.
3. Remove the oil drain plug and oil fill cap/dipstick to allow oil to drain completely.
4. Reinstall the drain plug and tighten securely.
5. Refill with the recommended engine oil to the proper level.

### 6.2 Air Filter Inspection and Cleaning

Inspect the air filter every 50 hours or every 3 months. Clean or replace as necessary.

1. Remove the air filter cover.
2. Remove the foam filter element.
3. Wash the foam element in warm, soapy water, rinse thoroughly, and allow to air dry completely. Lightly oil the foam element with engine oil before reinstalling.
4. Replace the air filter cover.

### 6.3 Spark Plug Inspection

Inspect the spark plug every 100 hours or every 6 months. Clean or replace if necessary.

1. Remove the spark plug cap.
2. Use a spark plug wrench to remove the spark plug.
3. Inspect for carbon buildup or wear. Clean with a wire brush or replace with a new spark plug of the recommended type.
4. Set the spark plug gap according to specifications in the manual.
5. Reinstall the spark plug and cap.

### 6.4 Storage

For extended storage (over 30 days), proper preparation is crucial.

- **Gasoline:** Add a fuel stabilizer to the gasoline tank and run the engine for a few minutes to circulate the stabilizer. Alternatively, drain all gasoline from the tank and carburetor.
- **Propane:** Disconnect the propane tank and store it separately.
- **Oil:** Change the engine oil.
- **Battery:** Disconnect the battery and store it in a cool, dry place, charging it periodically.
- Clean the exterior of the generator.
- Store in a clean, dry, well-ventilated area.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter with your generator.

Problem	Possible Cause	Solution
Engine will not start	No fuel or stale fuel Engine switch OFF Choke not set correctly Low engine oil Spark plug faulty Battery disconnected (for electric start)	Add fresh fuel or check propane connection Turn engine switch to ON Adjust choke lever Add engine oil to proper level Inspect/replace spark plug Connect battery cables securely

Problem	Possible Cause	Solution
No power output	Circuit breaker tripped Overloaded generator Loose connections	Reset circuit breaker Reduce connected load Check all electrical connections
Engine runs rough or stalls	Stale fuel Clogged air filter Spark plug issues Incorrect frequency output	Drain and refill with fresh fuel Clean/replace air filter Inspect/replace spark plug Consult a qualified technician for frequency adjustment if necessary (as noted in customer reviews, this may require specific adjustment)

## 8. SPECIFICATIONS

Detailed technical specifications for the Pulsar GD10KBN generator.

Feature	Detail
Brand	Pulsar
Model Name	Pulsar 10,500w Dual-Fuel Inverter Generator (GD10KBN)
Wattage (Gasoline)	10500 Peak Watts / 8000 Running Watts
Wattage (Propane)	9400 Peak Watts / 7200 Running Watts
Fuel Type	Gasoline, Propane
Power Source	Fuel Powered
Recommended Uses	Camping, Residential
Item Weight	125 Pounds
Voltage	120V / 240V
Engine Type	4 Stroke
Engine Displacement	457 Cubic Centimeters
Tank Volume	8 Gallons
Total Power Outlets	6
Product Dimensions	29.9" L x 21.5" W x 22.8" H

Feature	Detail
Special Features	Automatic Shut Down, Automatic Voltage Regulation, Digital Display, Dual Fuel, Extra-Long Run Time, Fuel Efficient, Fuel Gauge, Hour Meter, Low Oil Shutdown, Overload Protection, Portable, Short Circuit Protection

## 8.1 Reference Wattage for Common Appliances

The following table provides estimated running and starting wattages for common household appliances. Use this as a guide to manage your generator's load.

Appliance	Running Watts	Starting Watts
LED/LCD Display	150	--
Refrigerator	700	2200
Microwave	1000	3500
Electric Grill	1650	--
Washing Machine	1150	2250
Central AC 3 Ton	5400	7200

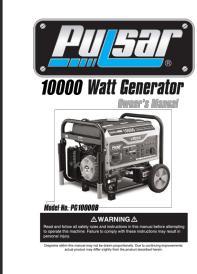
## 9. WARRANTY AND SUPPORT

Your Pulsar GD10KBN generator is covered by a **3-Year Manufacturer's Warranty**. Please retain your proof of purchase for warranty claims.

For technical assistance, parts, or warranty inquiries, please contact Pulsar Product customer support. Refer to the contact information provided with your product packaging or visit the official Pulsar website.

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### Related Documents - GD10KBN

	<p><a href="#"><u>Pulsar 10000 Watt Dual Fuel Generator Owner's Manual PG10000B</u></a></p> <p>Comprehensive owner's manual for the Pulsar 10000 Watt Dual Fuel Generator (Model PG10000B), covering safety, operation, maintenance, troubleshooting, and specifications for both gasoline and LPG use.</p>
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 <p><b>Pulsar PG4500BiSCO Inverter Generator Operator's Manual</b></p>	<p><a href="#">Pulsar PG4500BiSCO Inverter Generator Operator's Manual</a></p> <p>Operator's manual for the Pulsar PG4500BiSCO Inverter Generator, covering safety, features, operation, maintenance, and troubleshooting for gasoline and LPG dual-fuel use.</p>
 <p><b>Pulsar 9500 Watt Dual Fuel Inverter Generator Operator's Manual</b></p>	<p><a href="#">Pulsar 9500 Watt Dual Fuel Inverter Generator Operator's Manual</a></p> <p>This operator's manual provides comprehensive instructions for the Pulsar PGD95BiSCO 9500 Watt Dual Fuel Inverter Generator, covering safety precautions, operation, maintenance, and troubleshooting.</p>
 <p><b>Pulsar GD400BN 4000 Watt Dual Fuel Inverter Generator Operator's Manual</b></p>	<p><a href="#">Pulsar GD400BN 4000 Watt Dual Fuel Inverter Generator Operator's Manual</a></p> <p>Comprehensive operator's manual for the Pulsar GD400BN 4000 Watt Dual Fuel Inverter Generator, covering safe operation, maintenance, troubleshooting, and technical specifications for gasoline and propane use.</p>
 <p><b>DieHard DHD5000BiSRCO 5000 Watt Dual Fuel Inverter Generator Operator's Manual</b></p>	<p><a href="#">DieHard DHD5000BiSRCO 5000 Watt Dual Fuel Inverter Generator Operator's Manual</a></p> <p>Comprehensive operator's manual for the DieHard DHD5000BiSRCO 5000 Watt Dual Fuel Inverter Generator, detailing safety instructions, operation procedures, maintenance, troubleshooting, and technical specifications.</p>
 <p><b>Pulsar PG5250B Portable Generator Operator's Manual</b></p>	<p><a href="#">Pulsar PG5250B Portable Generator Operator's Manual</a></p> <p>Comprehensive operator's manual for the Pulsar PG5250B portable generator. Covers safety, assembly, operation, maintenance, troubleshooting, and warranty for this dual-fuel (gasoline/LPG) generator.</p>