

Pulsar GD500N

Pulsar GD500N Inverter Generator User Manual

Model: GD500N | Brand: Pulsar Products

INTRODUCTION

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your Pulsar GD500N 5000W Portable Super-Quiet Inverter Generator. Please read this manual thoroughly before operating the generator to ensure proper use and to prevent injury or damage.

The Pulsar GD500N is a gasoline-powered inverter generator designed for portability and quiet operation, making it ideal for camping, residential backup power, and powering tools. It features 5000 peak watts and 4000 running watts, with RV-ready capabilities.

IMPORTANT SAFETY INFORMATION

WARNING: Carbon Monoxide Hazard

Generators produce carbon monoxide, a colorless, odorless, poisonous gas. Operating a generator indoors can kill you in minutes. ALWAYS operate the generator outdoors in a well-ventilated area, far away from windows, doors, and vents.

- Read and understand all instructions before operating the generator.
- Keep children and pets away from the generator during operation.
- Do not operate the generator in rain or wet conditions.
- Ensure proper grounding of the generator before use.
- Always turn off the generator and allow it to cool before refueling.
- Use only fresh, clean, unleaded gasoline.
- Check oil level before each use. The generator features a Low Oil Shutdown to prevent engine damage.
- Do not overload the generator. It has Overload Protection and Resettable Circuit Breakers.

COMPONENTS AND KEY FEATURES



Front-side view of the Pulsar GD500N Inverter Generator, highlighting its compact design and control panel.



Rear view of the generator, displaying the various power outlets including the 3-Prong RV Plug and Duplex Plug.

Key Features:

- **5000 Peak Watts / 4000 Running Watts:** Provides ample power for various applications.
- **Super-Quiet Operation:** Designed for reduced noise levels, ideal for sensitive environments.
- **RV-Ready:** Equipped with a 3-Prong RV Plug for direct connection to recreational vehicles.
- **Low Oil Shutdown:** Automatically shuts off the engine when oil levels are too low, preventing damage.
- **Overload Protection & Resettable Circuit Breaker:** Protects the generator and connected devices from power surges.
- **Telescopic Handle:** For easy portability and maneuverability.
- **Parallel Ready:** Allows connection of two compatible generators for increased power output.
- **Multiple Outlets:** Includes Duplex Plug, 3-Prong RV Plug, and USB A/USB C ports.

SETUP AND FIRST USE

1. Unpacking and Inspection:

Carefully remove the generator from its packaging. Inspect for any shipping damage. Report any damage to your dealer immediately.

2. Add Engine Oil:

The generator is shipped without engine oil. Before first use, add the recommended amount of 10W-30 engine oil (Capacity: 0.45 L / 0.47 QT - 15.2 fl oz). Do not overfill. Refer to the oil fill cap for specific instructions.



Side view of the generator, indicating the location for oil filling.

3. Add Fuel:

Use fresh, clean, unleaded gasoline with an octane rating of 87 or higher. The fuel tank capacity is approximately 1.18 Imperial

Gallons. Do not fill above the maximum fill line. Ensure the fuel cap is securely tightened after filling.

CAUTION: Do not use E85 or any gasoline containing more than 10% ethanol.

4. Positioning the Generator:

Place the generator on a firm, level surface outdoors, away from any combustible materials and at least 20 feet from any building openings.

OPERATING INSTRUCTIONS

Starting the Engine:

1. Ensure the generator is on a level surface and all electrical loads are disconnected.
2. Turn the fuel valve to the "ON" position.
3. Move the choke lever to the "CHOKE" position (if engine is cold).
4. Turn the engine switch to the "ON" position.
5. Pull the recoil start handle firmly and smoothly until the engine starts.
6. Once the engine starts, gradually move the choke lever to the "RUN" position.
7. Allow the generator to warm up for a few minutes before connecting electrical loads.

Connecting Electrical Loads:

- Plug in your appliances or extension cords into the appropriate outlets (e.g., Duplex Plug, 3-Prong RV Plug, USB ports).
- Do not exceed the generator's rated running wattage (4000 Watts) or peak wattage (5000 Watts).
- Monitor the On Indicator Light and Overload Protection indicator. If an overload occurs, the circuit breaker will trip. Reduce the load and reset the breaker.

Stopping the Engine:

1. Disconnect all electrical loads from the generator.
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. Turn the fuel valve to the "OFF" position.

MAINTENANCE

Regular maintenance is crucial for the longevity and optimal performance of your generator. Always ensure the generator is off and cooled down before performing any maintenance.

Maintenance Schedule:

Item	Frequency
Check Engine Oil Level	Before each use
Change Engine Oil	First 20 hours, then every 100 hours or annually
Clean Air Filter	Every 50 hours or more often in dusty conditions

Item	Frequency
Inspect Spark Plug	Every 100 hours or annually
Clean Fuel Filter	Every 100 hours or annually

Storage:

For long-term storage, drain the fuel tank and carburetor, or use a fuel stabilizer. Store the generator in a clean, dry place.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Engine will not start	No fuel; Low oil level; Engine switch OFF; Choke not set correctly; Spark plug issue	Add fuel; Add oil; Turn engine switch ON; Adjust choke; Inspect/replace spark plug
No power output	Circuit breaker tripped; Overload; Loose connection	Reset circuit breaker; Reduce load; Check connections
Engine runs rough	Stale fuel; Clogged air filter; Dirty spark plug	Drain and refill with fresh fuel; Clean/replace air filter; Clean/replace spark plug
Low Oil Shutdown activates	Insufficient oil level	Add engine oil to the proper level

If problems persist after attempting these solutions, please contact Pulsar customer support.

TECHNICAL SPECIFICATIONS

Specification	Detail
Model Name	Pulsar GD500N
Peak Wattage	5000 Watts
Running Wattage	4000 Watts
Fuel Type	Gasoline
Voltage	120 Volts
Frequency	50 Hz
Engine Displacement	208 Cubic Centimeters
Runtime (at half load)	6 hours
Fuel Tank Volume	1.18 Imperial Gallons
Item Weight	59 Pounds

Specification	Detail
Product Dimensions (L x W x H)	20.9"L x 12.2"W x 19.7"H
Total Power Outlets	4 (including RV, Duplex, USB)
Special Features	Automatic Shut Down, Fuel Efficient, Lightweight, Low Oil Shutdown

Reference Wattage for Common Appliances:

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

This table provides estimated running and starting wattages for common household appliances, useful for planning your generator usage.

WARRANTY AND CUSTOMER SUPPORT

Your Pulsar GD500N Inverter Generator comes with a **2 Year Manufacturer Warranty**. Please retain your proof of purchase for warranty claims.

For technical assistance, parts, or warranty inquiries, please visit the official Pulsar Products store or contact their customer support directly.

Visit the [Pulsar Store on Amazon](#) for more information.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

What are the specifications and compatible models for the spark plug in the Pulsar GD500N generator, and where can I purchase a replacement?

Based on the documentation for the Pulsar GD500N, the manual confirms that the spark plug should be inspected every 100 hours or annually, but it does not explicitly list the factory-recommended model number or...

[Read full answer](#)

What brand and size of spark plug does the Pulsar GD500N inverter generator use?

The user manual for the Pulsar GD500N inverter generator confirms that the spark plug should be inspected every 100 hours or annually, but it does not explicitly list the specific spark plug model number...

[Read full answer](#)