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PowerSmart PS5046CE

PowerSmart 4800-Watt Portable Inverter Generator (Model PS5046CE) Instruction Manual

MODEL: PS5046CE

Brand: PowerSmart

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1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, maintenance, and troubleshooting of your PowerSmart 4800-Watt Portable Inverter Generator, Model PS5046CE. Please read this manual thoroughly before operating the generator to ensure proper use and to prevent injury or damage.

Key Features:

- **Power Output:** 4800 starting watts and 3800 running watts of clean power (less than 3% THD).
- **Run Time:** Up to 10 hours at 50% load.
- **Portability:** Equipped with a wheel and handle kit for easy transportation, weighing approximately 85 lbs.
- **Quiet Operation:** Operates at 59 dBA from 23 feet at 25% load, and 70 dBA at full load, suitable for various environments.
- **Control Panel:** Features four 120V 20 Amp receptacles, one 120V 30 Amp receptacle, one 12V DC Outlet, and two 5V USB ports.
- **Safety Features:** Includes Eco Mode, Low Oil Shutdown, Overload Reset, Carbon Monoxide Auto Shutdown, and Electric Start.
- **Engine:** Powered by a 223cc OHV 4-stroke engine.
- **Fuel Tank Capacity:** 1.9 Gallons.



Figure 1: Front view of the PowerSmart 4800-Watt Inverter Generator, highlighting its power capabilities and various outlets.



Figure 2: The generator delivering clean power (less than 3% THD) suitable for sensitive electronics.

2. SETUP

Before first use, ensure the generator is placed on a level, stable surface in a well-ventilated outdoor area, away from windows and doors. Never operate indoors.

2.1 Unpacking and Assembly

1. Carefully remove the generator and all components from the packaging.
2. Attach the wheel and handle kit as per the separate assembly instructions provided in the box.

Package Included



Generator



User Manual



Spark Plug Wrench



Funnel



Screwdriver

Figure 3: Contents included in the generator package, showing the generator unit and essential tools for setup and maintenance.

2.2 Adding Engine Oil

1. Locate the oil fill cap/dipstick on the engine.

2. Remove the cap and, using the provided funnel, add the recommended engine oil (refer to specifications for oil type and capacity).
3. Check the oil level with the dipstick; it should be at the full mark. Do not overfill.
4. Securely replace the oil fill cap.

Your browser does not support the video tag.

Video 1: A detailed overview of the generator's components, including the oil fill location and air filter. This video demonstrates where to add engine oil and highlights other key parts of the generator.

2.3 Adding Fuel

1. Ensure the generator is turned off and cooled down.
2. Unscrew the fuel cap.
3. Carefully pour fresh, unleaded gasoline into the fuel tank. Do not overfill.
4. Securely replace the fuel cap.

3. OPERATING INSTRUCTIONS

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

3.1 Starting the Generator

1. Ensure the generator is on a level surface and all connections are secure.
2. Turn the fuel valve to the "ON" position.
3. If starting cold, move the choke lever to the "CHOKE" position.
4. Press the electric start button or pull the recoil starter handle firmly until the engine starts.
5. Once the engine starts, slowly move the choke lever to the "RUN" position.
6. Allow the generator to warm up for a few minutes before connecting electrical devices.



**10 HOUR
RUNTIME
@ 50% LOAD**



Figure 4: The generator's control panel, featuring various AC outlets, DC outlet, USB ports, and the electric start button.

3.2 Connecting Electrical Devices

1. Ensure the generator is running smoothly.
2. Plug your electrical devices into the appropriate AC 120V outlets, 12V DC outlet, or 5V USB ports.
3. Do not overload the generator. Monitor the multi-function display for output levels.
4. For sensitive electronics, the inverter technology provides clean power (less than 3% THD).

3.3 Eco Mode

1. Engage the Eco Mode switch to optimize fuel consumption and reduce noise when power demands are low.
2. The engine speed will automatically adjust to match the load.



Figure 5: The generator's quiet operation, making it suitable for recreational use.

3.4 Stopping the Generator

1. Disconnect all electrical devices from the generator.
2. Turn the engine switch to the "OFF" position.
3. Turn the fuel valve to the "OFF" position.
4. Allow the generator to cool down completely before storing.

4. MAINTENANCE

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

4.1 Engine Oil Check and Change

1. Check the engine oil level before each use.
2. Change the engine oil after the first 20 hours of operation, and then every 100 hours or annually, whichever comes first.
3. Refer to the specifications for the correct oil type.

4.2 Air Filter Cleaning

1. Inspect the air filter every 50 hours or more frequently in dusty conditions.
2. Clean or replace the air filter as needed to ensure proper engine performance.

4.3 Spark Plug Inspection

1. Inspect the spark plug every 100 hours or annually.
2. Clean or replace the spark plug if it is fouled or damaged. Use the provided spark plug wrench.

5. TROUBLESHOOTING

This section provides solutions to common operational issues. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Engine will not start	No fuel, low oil, choke not set, engine switch off, spark plug issue.	Add fuel, check oil level, adjust choke, turn engine switch ON, inspect/replace spark plug.
No power output	Overload, circuit breaker tripped, Eco Mode engaged with high load.	Reduce load, reset circuit breaker, disengage Eco Mode if necessary.
Engine runs rough	Stale fuel, dirty air filter, fouled spark plug.	Drain old fuel and add fresh, clean air filter, inspect/replace spark plug.
CO Sensor activated (engine shuts down)	High carbon monoxide levels detected.	Move generator to a well-ventilated outdoor area. Allow to cool before restarting.

6. SPECIFICATIONS

Feature	Detail
Brand	PowerSmart
Model Name	4800W
Item Model Number	PS5046CE
Starting Wattage	4800 Watts
Running Wattage	3800 Watts
Fuel Type	Gasoline
Engine Type	4 Stroke, 223cc OHV
Tank Volume	1.9 Gallons
Run Time (50% load)	10 hours
Noise Level	59 dBA (25% load, 23 ft) / 70 dBA (full load, 23 ft)
Total Harmonic Distortion (THD)	Less than 3%
Outlets	4x 120V 20A AC, 1x 120V 30A AC, 1x 12V DC, 2x 5V USB
Special Features	Automatic Shut Down, CO Sensor, Cold Start Technology, Electric Start, Overload Protection, Eco Mode, Parallel Ports
Item Weight	Approx. 85 lbs (83 lbs as per image)
Product Dimensions (L x W x H)	24" x 17" x 20"
Material	Steel, aluminum, cast iron, plastic, or rubber



Figure 6: Dimensional overview of the PowerSmart 4800-Watt Inverter Generator, including its weight.

7. WARRANTY AND SUPPORT

PowerSmart products are designed for reliability and durability. For any questions or assistance, please refer to the contact information provided in your product packaging or visit the official PowerSmart website.

- **EU Spare Part Availability:** 3 Years.
- For customer support, refer to the contact details provided with your purchase.



Figure 7: PowerSmart Support information, typically found in the user manual or on the product itself.