

[Manuals.plus](#) /

› [PowerSmart](#) /

› PowerSmart 4400-Watt Portable Generator with Inverter Technology, RV Ready, DL5040 4400Watt + Inverter User Manual

PowerSmart DL5040

PowerSmart 4400-Watt Portable Generator User Manual

MODEL: DL5040

Introduction

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your PowerSmart 4400-Watt Portable Inverter Generator. Please read this manual thoroughly before operating the generator to ensure proper use and to prevent injury or damage.

Safety Information

Operating a generator requires adherence to strict safety guidelines. Failure to follow these instructions can result in serious injury or death.

- **Carbon Monoxide Hazard:** Generators produce carbon monoxide (CO), an odorless, colorless, and poisonous gas. Operate the generator outdoors only, far away from windows, doors, and vents. Never operate indoors, including garages or sheds.
- **Hot Surfaces:** The generator's engine and muffler become extremely hot during operation and remain hot for some time after shutdown. Avoid touching hot surfaces to prevent burns.
- **Fire Hazard:** Fuel is highly flammable. Refuel in a well-ventilated area with the engine off and cool. Do not smoke or allow open flames near the generator.
- **Electrical Shock Hazard:** Do not operate the generator in wet conditions. Ensure all electrical connections are secure and properly grounded.



Image: The PowerSmart 4400-Watt Portable Generator, showing visible warning labels regarding hot surfaces and proper usage.

Setup

Before first use, or after extended storage, follow these steps to prepare your generator for operation:

1. **Add Engine Oil:** Locate the oil fill cap/dipstick. Add the recommended engine oil (not included) to the proper level. A funnel is typically included for this purpose.
2. **Add Fuel:** Ensure the generator is off and cool. Rotate the tank cap switch to the "ON" position. Carefully add unleaded gasoline (non-ethanol recommended) to the fuel tank. Do not overfill.
3. **Positioning:** Place the generator on a firm, level surface outdoors, away from any combustible materials and at least 20 feet from any building openings.

Generator Start

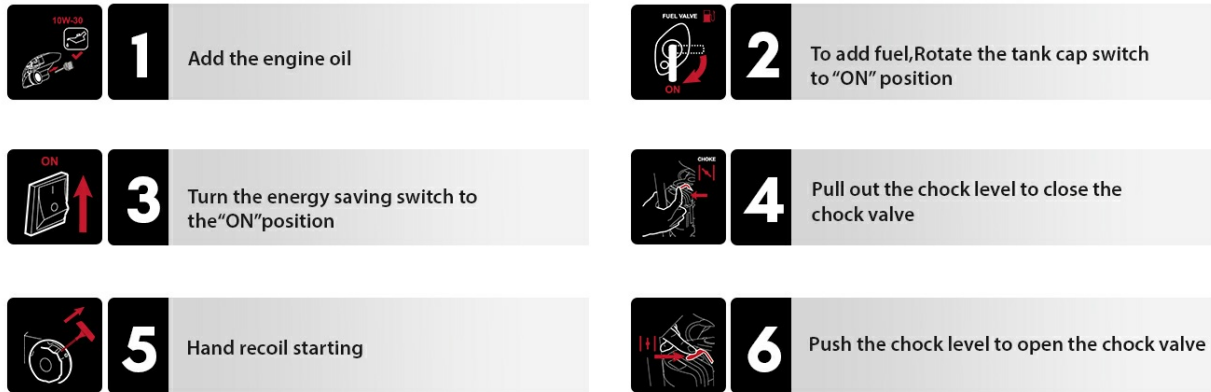


Image: A visual guide illustrating the six steps for starting the generator, including adding oil, turning on fuel, engaging the energy-saving switch, using the choke, and recoil starting.

Operating Instructions

Follow these steps to start and operate your PowerSmart generator:

1. **Engine Switch:** Turn the engine switch to the "ON" position.
2. **Eco Mode:** If desired, turn the energy-saving (Eco) switch to the "ON" position for reduced fuel consumption and quieter operation under light loads.
3. **Choke:** Pull out the choke lever to close the choke valve (for cold starts).
4. **Start:** Firmly pull the recoil starter handle until the engine starts.
5. **Choke Adjustment:** Once the engine starts, gradually push the choke lever back in to open the choke valve as the engine warms up.
6. **Connecting Devices:** Plug in your devices to the appropriate outlets. The generator features two 120V 15A receptacles and one 120V 30A RV-ready outlet.



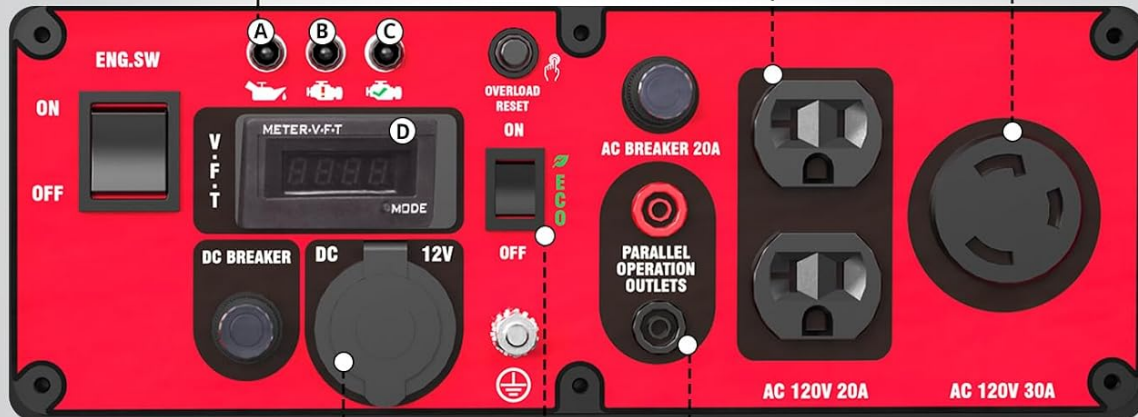
CONTROL PANEL

INDICATOR

- A: low oil level alarm(Yellow)
- B: Overload indicator(Red)
- C: Running Indicator(Green)
- D: Voltage, Frequency
Run time, Total run time

AC 120V 20A
NEMA 5-20R

AC 120V 30A
RV READY



PARALLEL READY
Link 2 units for DOUBLE POWER

DC 12V
Port

ECO
Energy-Saving

Image: A close-up of the generator's control panel, highlighting the engine switch, indicator lights (low oil, overload, running), digital display (meter/volt/frequency/runtime), DC 12V port, Eco Energy-Saving switch, AC breaker, parallel operation outlets, and AC 120V 20A and 30A outlets.

Parallel Operation

This generator is parallel capable, allowing you to connect two PowerSmart inverter generators for increased power output. Refer to the parallel kit instructions for detailed connection procedures.



Parallel Capable

Connect 2 inverter generators for twice the power

Image: Two PowerSmart generators shown connected side-by-side, demonstrating their parallel capability for combined power.

Quiet Operation

The PowerSmart DL5040 is designed for quiet operation, producing approximately 59 dBA at 25% load from 23 feet, and 76 dBA at quarter load from 23 feet, minimizing disturbance during use.



Image: The PowerSmart generator positioned in a campsite with people nearby, illustrating its quiet operation with a sound wave graphic.

Product Overview Video

Video: An official product video from the seller demonstrating the PowerSmart 4400W generator, highlighting its features and suitability for RV use.

Video: An official product video from the seller providing an overview of the 4450-Watt Open Frame Inverter Generator, showcasing its design and capabilities.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your generator.

- **Oil Changes:** Change the engine oil after the first 20 hours of operation, and then every 100 hours or annually, whichever comes first.
- **Air Filter:** Inspect and clean the air filter regularly. Replace if heavily soiled or damaged.
- **Spark Plug:** Check the spark plug annually or every 100 hours. Clean or replace as needed.

- **Fuel System:** For long-term storage, drain the fuel tank and carburetor, or use a fuel stabilizer to prevent fuel degradation.

Troubleshooting

Here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
Engine will not start	No fuel; Low oil level; Choke not set correctly; Spark plug issue	Add fuel; Add oil; Adjust choke; Inspect/replace spark plug
No power output	Circuit breaker tripped; Overload; Loose connections	Reset circuit breaker; Reduce load; Check connections
Engine runs rough	Stale fuel; Clogged air filter; Dirty spark plug	Drain/replace fuel; Clean/replace air filter; Clean/replace spark plug

Specifications

Feature	Detail
Brand	PowerSmart
Model Name	4400-Watt Open Frame Inverter Generator
Model Number	DL5040
Starting Wattage	4400 Watts
Running Wattage	3600 Watts
Fuel Type	Gas
Engine Type	4 Stroke
Engine Displacement	224 Cubic Centimeters
Tank Volume	2.5 Gallons
Runtime	5.1 hours at 50% load (up to 16 hours total)
Noise Level	59 dBA (25% load, 23 ft) / 76 dBA (quarter load, 23 ft)
Voltage	120 Volts (AC)
Frequency	60 Hz

Feature	Detail
Total Power Outlets	4 (Two 120V 15A, One 120V 30A, One 12V DC)
Item Weight	57.2 Pounds
Product Dimensions	19"L x 16"W x 15.6"H
Special Features	Portable, Foldable Handle, Cold Start Technology, Super Quiet, Extra-Long Run Time, Eco Mode, Low Oil Shutdown, Overload Reset, Parallel Ports



Image: A diagram illustrating the compact dimensions of the generator: 19 inches in length, 16 inches in width, and 15.6 inches in height, with a weight of approximately 60 lbs.

Warranty and Support

PowerSmart products are designed for reliability. In the event that your product requires repair or replacement, PowerSmart has a network of over 500 certified repair centers across the U.S. Full replacement parts are also available through the Illinois headquarters.

For any issues or support inquiries, please contact PowerSmart customer service. Refer to your purchase documentation for specific warranty terms and contact information.

PowerSmart is founded by Amerisun Inc., headquartered in Itasca, Illinois, specializing in small engine equipment.

© 2025 PowerSmart. All rights reserved.

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