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PowerSmart MB5040B

PowerSmart 4400-Watt Open Frame Inverter Generator User Manual

Model: MB5040B | Brand: PowerSmart

PRODUCT OVERVIEW

The PowerSmart 4400-Watt Open Frame Inverter Generator is designed to provide reliable portable power for various applications, including home backup, camping, RV use, tailgating, and DIY projects. This gas-powered generator offers a balance of power, efficiency, and quiet operation, making it suitable for both emergency and recreational needs.



Image: Front view of the PowerSmart 4400-Watt Open Frame Inverter Generator, showcasing its compact design and control panel.

Key Features:

- **Power Output:** 4400 Peak Watts and 3600 Running Watts, suitable for various power demands.
- **Extended Run Time:** Operates up to 11 hours at 50% load on a 2.7-gallon fuel tank, featuring a built-in fuel gauge.
- **Quiet Operation:** Produces as low as 76 dBA at 23 feet, ideal for noise-sensitive environments.
- **Fuel Efficiency:** Eco mode helps save fuel and prolong engine life.
- **Safety Features:** Includes low oil automatic shutdown, overload protection, and a digital display instrument for monitoring.
- **Parallel Capable:** Allows for connecting two units for increased power output (parallel kit sold separately).
- **CARB Compliant:** Meets California Air Resources Board standards.

VERIETY OF USES



RV



TAILGATING



HUNTING



DIY
PROJECTS



CAMPING



EMERGENCY
BACKUP



Image: Infographic illustrating various applications for the generator, including RV, tailgating, hunting, DIY projects, camping, and emergency backup.

SAFETY INFORMATION

Always read and understand this manual before operating the generator. Failure to follow instructions can result in serious injury or death. Keep this manual for future reference.

- **Carbon Monoxide Hazard:** Generators produce carbon monoxide, a colorless, odorless, poisonous gas. Operate generators outdoors only, far away from windows, doors, and vents. Never operate indoors or in enclosed spaces.
- **Electrical Shock Hazard:** Do not operate the generator in wet conditions. Ensure all connections are dry and secure. Use a ground fault circuit interrupter (GFCI) when operating in damp locations.
- **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. Store fuel in approved containers.
- **Hot Surfaces:** The generator's engine and muffler become very hot during operation and remain hot for a period after shutdown. Avoid contact with hot surfaces to prevent burns.

- **Children and Pets:** Keep children and pets away from the generator during operation.
- **Proper Grounding:** Always ensure the generator is properly grounded before use to prevent electrical shock.

SETUP

1. Unpacking and Initial Inspection

Carefully remove the generator from its packaging. Inspect for any damage that may have occurred during shipping. Ensure all components listed in the packing list are present.

2. Adding Engine Oil

The generator is shipped without engine oil. Before first use, add the recommended type and amount of oil. Refer to the specifications section for oil type and capacity.

1. Place the generator on a level surface.
2. Locate the oil fill cap/dipstick.
3. Remove the cap and slowly pour the recommended oil into the crankcase until it reaches the upper mark on the dipstick. Do not overfill.
4. Securely replace the oil fill cap.

3. Adding Fuel

Use only fresh, unleaded gasoline with an octane rating of 87 or higher. Do not use E85 or a gasoline/oil mixture.

1. Ensure the generator engine is off and cool.
2. Move the generator to a well-ventilated outdoor area for refueling.
3. Unscrew the fuel cap slowly to release any pressure.
4. Carefully pour gasoline into the fuel tank, avoiding overfilling. Leave space for fuel expansion.
5. Securely replace the fuel cap. Wipe up any spilled fuel immediately.

4. Grounding the Generator

For safe operation, the generator must be properly grounded. Connect a ground wire from the generator's ground terminal to a suitable earth ground rod.

OPERATING INSTRUCTIONS

CONTROL PANEL



Image: Detailed view of the generator's control panel, showing the run/stop switch, LED alarms, AC reset, AC breakers, various outlets (20A, 30A, 12V DC), Eco switch, DC breaker, and parallel operation outlets.

1. Starting the Generator

1. Ensure the generator is on a level surface and properly grounded.
2. Turn the engine switch to the "ON" position.
3. If the engine is cold, move the choke lever to the "CHOKE" position.
4. Pull the recoil starter handle firmly and smoothly 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 loads.

2. Connecting Electrical Loads

Connect appliances or tools to the appropriate AC outlets (120V 20A or 120V 30A RV-ready). Do not overload the generator. Monitor the digital display for voltage and frequency.



Image: A person operating a power tool, with the PowerSmart generator providing electricity in an outdoor setting, demonstrating its utility for DIY projects.

3. Eco Mode Operation

The Eco mode switch allows the generator to automatically adjust engine speed to match the load, improving fuel efficiency and reducing noise. For maximum power or starting high-load appliances, turn Eco mode off.

4. Parallel Operation

This generator is parallel capable, allowing you to connect two identical PowerSmart inverter generators for increased power output. A parallel kit (sold separately) is required for this operation.

1. Ensure both generators are off and cool.
2. Connect the parallel kit cables to the designated parallel operation outlets on both generators.
3. Start both generators according to the standard starting procedure.
4. Once both generators are running stably, you can connect your loads to the parallel kit's outlets.



PARALLEL READY

Double your power Parallel Kit Sold Separately

Image: Two PowerSmart generators positioned side-by-side, with a person connecting them using a parallel cable, illustrating the parallel-ready feature.

5. Stopping the Generator

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 (if applicable).

MAINTENANCE

Regular maintenance is crucial for the longevity and reliable operation of your generator. Always perform maintenance with the engine off and cool.

Maintenance Schedule:

Item	Before Each Use	Every 25 Hours / Monthly	Every 100 Hours / Annually
Engine Oil Level	Check	Change	
Air Filter	Check	Clean	Replace
Spark Plug		Inspect	Clean/Adjust/Replace
Fuel Filter			Inspect/Replace
Fuel Tank & Line			Inspect

Storage:

If storing the generator for more than 30 days, prepare it for storage to prevent fuel degradation and engine damage.

1. Add a fuel stabilizer to the fuel tank and run the engine for a few minutes to circulate it.
2. Drain the fuel from the carburetor by opening the drain screw (if applicable) or run the engine until it runs out of fuel.
3. Change the engine oil.
4. Remove the spark plug and pour a small amount of engine oil into the cylinder. Pull the recoil starter a few times to distribute the oil, then reinstall the spark plug.
5. Clean the exterior of the generator.
6. Store in a clean, dry, well-ventilated area, away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Engine will not start	No fuel; Low oil level; Engine switch OFF; Choke position incorrect; Spark plug issue	Add fuel; Add oil; Turn engine switch ON; Adjust choke; Inspect/clean/replace spark plug
No power output	Overload; AC breaker tripped; Loose connections	Reduce load; Reset AC breaker; Check and secure all connections
Engine runs rough	Stale fuel; Clogged air filter; Dirty spark plug	Drain and replace fuel; Clean/replace air filter; Clean/replace spark plug
Generator shuts down during operation	Low oil level; Overload; Overheating	Add oil; Reduce load; Allow generator to cool down in a well-ventilated area

SPECIFICATIONS

Attribute	Value
Brand	PowerSmart
Model Name	MB5040B

Attribute	Value
Starting Wattage	4400 Watts
Running Wattage	3600 Watts
Fuel Type	Gasoline
Power Source	Gas-Powered
Voltage	120 Volts (AC)
Frequency	60 Hz
Engine Type	4 Stroke
Engine Displacement	223 Cubic Centimeters
Tank Volume	2.7 Gallons
Runtime (50% load)	11 hours
Noise Level	As low as 76 dBA (at 23 feet)
Item Weight	68.8 Pounds
Product Dimensions	21.2"L x 17.7"W x 20.9"H
Included Components	Wrench
Special Features	Extra-Long Run Time, Fuel Efficient, Low Oil Shutdown, Portable, Super Quiet

WARRANTY AND SUPPORT

Your PowerSmart 4400-Watt Open Frame Inverter Generator comes with a **2-year warranty**, covering defects in materials and workmanship under normal use.

PowerSmart also provides **FREE lifetime technical support** from experts to assist you with any questions or issues you may encounter.

Contact Information:

For technical assistance or warranty claims, please contact PowerSmart customer service:

Website: www.powersmartusa.com
Email: support@powersmartusa.com
Phone: 1-877-888-3276

Please have your model number (MB5040B) and purchase date ready when contacting support.

