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WEN 56450i

WEN 56450i Super Quiet 4500-Watt RV-Ready Portable Inverter Generator

User Manual

Introduction

The WEN 56450i Super Quiet 4500-Watt Inverter Generator is designed to provide clean, stable power for a variety of applications, from sensitive electronics to RV appliances. Its advanced inverter technology ensures power free of voltage spikes, making it safe for laptops, cellphones, and other vulnerable devices. This generator features a 212cc 4-stroke OHV engine, operating at a quiet 58 decibels at quarter load, and includes a fuel shut-off feature to prolong its lifespan. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your WEN 56450i generator.



Image: The WEN 56450i Inverter Generator, showcasing its compact and portable design with a black and orange casing.

Safety Information

Always read and understand all safety warnings and instructions before operating the generator. Failure to follow these instructions may result in electric shock, fire, serious injury, or death.

- **Carbon Monoxide Hazard:** Generators produce carbon monoxide, a colorless, odorless, poisonous gas. Operate the generator outdoors in a well-ventilated area, 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 electrical connections are secure and dry. Use ground fault circuit interrupters (GFCIs) when operating in damp or wet 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. Avoid contact with hot surfaces to prevent burns. Allow the generator to cool completely before handling or storing.
- **Proper Grounding:** Always properly ground the generator before use to prevent electrical shock. Refer to local electrical codes for grounding requirements.

Setup

1. Unpacking and 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. Locate the oil fill cap/dipstick, typically on the side of the engine. Use a funnel to add oil slowly until it reaches the upper mark on the dipstick. Do not overfill.



Image: Close-up view of the WEN 56450i generator with the oil access panel removed, showing the yellow oil fill cap.

3. Adding Fuel

Use fresh, unleaded gasoline with an octane rating of 87 or higher. Fill the fuel tank slowly, avoiding spills. Do not fill above the maximum fill line to allow for fuel expansion. Ensure the fuel cap is securely tightened after refueling.

4. Initial Start-Up Preparation

Before starting, ensure the generator is on a level surface. Check oil and fuel levels. Disconnect all electrical loads from the generator outlets.

Operating the Generator

1. Starting Procedure

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 the engine is cold).
4. Turn the engine switch to the 'RUN' position.

5. Pull the recoil starter handle firmly and smoothly until the engine starts.
6. Once the engine starts, slowly move the choke lever to the 'RUN' position.



Image: Detailed view of the WEN 56450i control panel, showing the data meter, outlets, switches, and circuit breakers.

2. Connecting Electrical Devices

Allow the generator to warm up for a few minutes before connecting electrical devices. The control panel features two 3-prong 120V standard household receptacles, one RV-ready AC 120V 30A NEMA TT-30R receptacle, one 12V DC receptacle, and two 5V USB ports. Ensure the total wattage of connected devices does not exceed the generator's rated running wattage.



Image: Front view of the WEN 56450i generator, highlighting the accessible control panel with various power outlets.

3. Eco-Mode Operation

Engage the Eco-Mode switch to maximize fuel economy. In Eco-Mode, the generator's engine automatically adjusts its speed to match the electrical load, reducing fuel consumption and noise when less power is required.

4. Parallel Connection (Optional)

For increased power output, two WEN inverter generators can be linked using a WEN Parallel Connection Kit (sold separately). Follow the instructions provided with the parallel kit for safe and proper connection.

5. Shutting Down the Generator

1. Disconnect all electrical loads from the generator outlets.
2. Turn the fuel shut-off switch to the 'OFF' position. This allows the generator to use up the remaining fuel in the carburetor, preventing blockages.
3. Allow the engine to run until it stops from lack of fuel.
4. Turn the engine switch to the 'OFF' position.

Maintenance

Regular maintenance is crucial for the longevity and optimal performance of your generator.

- **Engine Oil:** Check the engine oil level before each use. Change the oil after the first 20 hours of operation, and then every 50 hours or annually, whichever comes first.
- **Air Filter:** Inspect the air filter regularly and clean or replace it as needed, especially in dusty conditions. A dirty air filter can reduce engine performance.
- **Spark Plug:** Inspect the spark plug annually or every 100 hours. Clean or replace if fouled or worn. Ensure the correct gap is maintained.
- **Fuel System:** The fuel shut-off feature helps prevent fuel-related issues. For long-term storage, it is recommended to drain the fuel tank and carburetor completely, or use a fuel stabilizer.
- **Spark Arrestor:** The generator is equipped with a spark arrestor for legal use in national parks and campgrounds. Periodically inspect and clean the spark arrestor to ensure proper function.
- **General Cleaning:** Keep the generator clean and free of dirt and debris. Use a damp cloth to wipe down exterior surfaces. Do not use a pressure washer.

Troubleshooting

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

Problem	Possible Cause	Solution
Engine will not start	No fuel; Low oil level; Choke not set correctly; Engine switch OFF; Spark plug issue	Add fuel; Add oil; Adjust choke; Turn engine switch ON; Inspect/clean/replace spark plug
No power output	Circuit breaker tripped; Overload; Loose connections	Reset circuit breaker; Reduce load; Check connections
Engine runs rough	Stale fuel; Dirty air filter; Fouled spark plug	Drain and replace fuel; Clean/replace air filter; Clean/replace spark plug
Low-oil indicator on	Low oil level	Add engine oil to the correct level
Overload indicator on	Generator overloaded	Disconnect some electrical devices; Reduce total wattage load

The generator is equipped with indication lights for low-oil and low-fuel, as well as overload protection, which will automatically shut down the unit to prevent damage to both the generator and your electronics.

Specifications

Feature	Specification
Brand	WEN
Model Name	Super Quiet 4500-Watt RV-Ready Portable Inverter Generator with Fuel Shut-Off

Feature	Specification
Model Number	56450i
Starting Wattage	4500 Watts
Running Wattage	3500 Watts
Voltage	120 Volts
Frequency	60 Hz
Engine Type	4 Stroke OHV
Engine Displacement	212 Cubic Centimeters
Fuel Type	Gasoline
Tank Volume	2.2 Gallons
Runtime (Half-Load)	Up to 8.5 hours
Noise Level (Quarter Load)	58 dBA (at 22 feet)
Total Power Outlets	5 (2x 120V AC, 1x 120V 30A RV, 1x 12V DC, 2x 5V USB)
Item Weight	99.2 Pounds
Product Dimensions (L x W x H)	23.2" x 18" x 20.1"
Special Feature	Portable, Fuel Shut-Off, Eco-Mode
Included Components	Generator, Wheels, Carrying Handle



Image: Diagram showing the dimensions of the WEN 56450i generator: 23.2 inches long, 18 inches wide, and 20.1 inches high.

Warranty and Support

Your WEN 56450i Inverter Generator comes backed by a**3-year warranty**. This warranty covers defects in material and workmanship under normal use and service.
For technical assistance, warranty claims, or to locate a service center, please contact WEN customer support. WEN maintains a nationwide network of skilled service technicians and a friendly customer helpline to assist you with any questions or issues you may encounter.
Please have your model number (56450i) and serial number ready when contacting support to ensure prompt service.

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