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WEN 56250i

WEN 2500-Watt Inverter Generator User Manual

Model: 56250i

Introduction

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your WEN 2500-Watt Inverter Generator (Model 56250i). Please read this manual thoroughly before operating the generator to ensure proper use and to prevent injury or damage.
The WEN 2500-Watt Inverter Generator is designed to provide clean, stable power for sensitive electronics, making it ideal for camping, tailgating, residential backup power, and other applications requiring portable electricity. It features an 80cc engine, producing up to 2500 surge watts and 1900 rated watts.

Safety Information

Always prioritize safety when operating the generator. Failure to follow safety 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, in a garage, or in any enclosed space.
- **Electrical Shock Hazard:** Do not operate the generator in wet conditions. Ensure all electrical connections are dry and secure. Never touch the generator or connected devices with wet hands.
- **Fire Hazard:** Gasoline 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 some time after shutdown. Avoid contact with hot surfaces to prevent burns.
- **Proper Grounding:** Always properly ground the generator before operation to prevent electrical shock.

Components and Controls

Familiarize yourself with the various parts and controls of your WEN Inverter Generator.



Figure 1: Front view of the WEN 2500-Watt Inverter Generator, showing the main control panel and carrying handle.



Figure 2: Close-up of the control panel, highlighting the data meter, Eco-Mode switch, output/overload indicators, circuit breaker, 120V AC receptacles, USB ports, and manual shutdown switch.

- **Fuel Cap:** Located on top, for adding gasoline.
- **Carrying Handle:** Integrated into the top for easy portability.
- **Control Panel:** Contains all operational switches, outlets, and indicators.
- **Data Meter:** Displays hours of operation and other relevant information.
- **Eco-Mode Switch:** Engages fuel-saving mode, adjusting engine speed to load.
- **Output/Overload Indicators:** Lights indicating power output status and overload conditions.
- **Circuit Breaker:** Protects the generator from electrical overload.
- **120V AC Receptacles (NEMA 5-20R):** Two standard household outlets for connecting electrical devices.
- **5V USB Ports:** Two USB ports for charging portable electronic devices.
- **Manual Shutdown Switch:** For manually turning off the generator.
- **Ground Terminal:** For connecting a ground wire.
- **Recoil Starter:** For manual engine starting.
- **Choke Lever:** Assists in starting a cold engine.

Setup

1. Initial Oil Fill

The generator is shipped without engine oil. Before first use, you must add the recommended amount of 5W-30 engine oil.

1. Place the generator on a level surface.
2. Locate the oil fill cap/dipstick (typically on the side of the engine).
3. Remove the cap/dipstick and carefully add approximately 0.37 quarts (0.35 liters) of 5W-30 engine oil using a funnel. Do not overfill.
4. Reinsert the dipstick and tighten the cap.

2. Fueling

Use only fresh, unleaded gasoline with an octane rating of 87 or higher. Do not use E85 or mixed fuels.

1. Ensure the generator is off and cool.
2. Move to a well-ventilated outdoor area.
3. Unscrew the fuel cap.
4. Carefully pour gasoline into the fuel tank (1-gallon capacity), leaving a small air gap at the top. Do not overfill.
5. Securely replace the fuel cap. Wipe up any spilled fuel immediately.

3. Grounding

Proper grounding is crucial for safety. Connect the generator to a proper earth ground using a grounding wire (not included).

1. Connect one end of a grounding wire to the generator's ground terminal.
2. Connect the other end of the grounding wire to a suitable earth ground, such as a metal ground rod driven into the earth.

Operation

1. Starting the Generator

1. Ensure the generator is on a level surface outdoors, away from combustible materials.
2. Make sure no electrical devices are plugged into the outlets.
3. Turn the fuel valve to the "ON" position.
4. Move the choke lever to the "CHOKE" position (for cold starts).
5. Turn the engine switch to the "ON" or "RUN" position.
6. Firmly pull the recoil starter handle until the engine starts.
7. Once the engine starts, slowly move the choke lever to the "RUN" position.

2. Connecting Devices

Once the generator is running smoothly, you can connect your electrical devices.

- Plug devices into the 120V AC receptacles or USB ports.
- Do not exceed the generator's rated wattage (1900 running watts). Overloading will trigger the overload protection and shut down the output.

- If an overload occurs, disconnect the overloaded device, press the overload reset button (if applicable), and restart the generator if necessary.

3. Eco-Mode

The Eco-Mode switch allows the generator to automatically adjust engine speed to match the load, improving fuel efficiency and reducing noise.

- Flip the Eco-Mode switch to the "ON" position for quieter operation and extended run time when powering lighter loads.
- For maximum power output or when starting high-demand appliances, switch Eco-Mode to "OFF".

4. Parallel Operation

This generator can be connected in parallel with another compatible WEN inverter generator to combine their power output. A WEN 120V Parallel Connection Kit (sold separately) is required for this feature.

- Refer to the instructions provided with the WEN Parallel Connection Kit for detailed setup and operation procedures.

5. Shutting Down

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. This activates the fuel shutoff feature, allowing the carburetor to run dry, which helps prevent fuel-related issues during storage.
4. Allow the generator to cool completely before moving or storing.

Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your generator. Always perform maintenance with the engine off and cool.

1. Engine Oil Change

Change the engine oil after the first 20 hours of operation, then every 50 hours or annually, whichever comes first.

1. Place a drain pan beneath the oil drain plug.
2. Remove the oil fill cap/dipstick and the oil drain plug.
3. Allow all old oil to drain completely.
4. Replace the drain plug and refill with fresh 5W-30 engine oil (approx. 0.37 quarts).
5. Replace the oil fill cap/dipstick.

2. Spark Plug Inspection/Replacement

Inspect the spark plug every 100 hours or annually. Replace if necessary.

- Remove the spark plug cap and then the spark plug using a spark plug wrench.
- Check for carbon buildup or wear. Clean or replace as needed.
- Ensure the gap is correct (refer to specifications).
- Reinstall the spark plug and cap.

3. Air Filter Cleaning

Clean the air filter every 50 hours or more frequently in dusty conditions.

- Remove the air filter cover and foam element.
- Wash the foam element in warm, soapy water, rinse thoroughly, and allow to air dry completely.
- Lightly oil the foam element with engine oil and squeeze out excess.
- Reinstall the air filter.

4. Storage

For extended storage (over 30 days), prepare the generator as follows:

- Drain the fuel tank and carburetor (the fuel shutoff feature helps with this). Consider using a fuel stabilizer if draining is not possible.
- Change the engine oil.
- 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.
- Store in a clean, dry, well-ventilated area.

Troubleshooting

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
Engine will not start	No fuel; Low oil; Choke incorrect; Engine switch off; Spark plug issue	Add fuel; Add oil; Adjust choke; Turn engine switch ON; Inspect/clean/replace spark plug
No power output	Overload; Circuit breaker tripped; Eco-Mode on with heavy load	Reduce load, reset overload; Reset circuit breaker; Turn Eco-Mode OFF
Engine runs rough	Stale fuel; Clogged air filter; Dirty spark plug	Drain and refill with fresh fuel; Clean air filter; Clean/replace spark plug
Generator shuts down during operation	Low oil; Overload; Low fuel	Check oil level; Reduce load; Refuel

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

Specifications

Feature	Detail
Model	56250i
Engine Type	80cc, 4-stroke, OHV
Starting Wattage	2500 Watts
Running Wattage	1900 Watts
Fuel Type	Unleaded Gasoline (87+ Octane)

Feature	Detail
Fuel Tank Capacity	1 Gallon
Engine Oil Type	5W-30
Engine Oil Capacity	0.37 Quarts (0.35 Liters)
Run Time (at 1/2 load)	Up to 4.4 Hours
Noise Level (at 1/4 load)	65 dB
Total Harmonic Distortion (THD)	<0.3% (no load), <1.2% (full load)
Outlets	Two 120V NEMA 5-20R, Two 5V USB
Dimensions (L x W x H)	11.4" x 17.9" x 19.7"
Weight	37.5 Pounds
UPC	044459562511

Warranty and Support

Your WEN 2500-Watt Inverter Generator (Model 56250i) is backed by a**3-year limited warranty**. This warranty covers defects in material and workmanship under normal use.
For warranty claims, technical assistance, or to locate authorized service centers, please contact WEN customer support:

Website: www.wenproducts.com

Customer Helpline: Refer to your product registration card or the WEN website for current contact numbers.

Please have your model number (56250i) and serial number ready when contacting support.

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