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WEN 56235i

WEN 2350-Watt Inverter Generator User Manual

Model: 56235i

Introduction

The WEN 2350-Watt Inverter Generator (Model 56235i) is designed to provide clean, stable power for a variety of applications, from sensitive electronics to general power needs. Its compact and lightweight design makes it highly portable, while its quiet operation ensures minimal disturbance. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your generator.

- **Ultralight and compact:** Weighs only 39 pounds for easy transport and storage.
- **Extremely quiet operation:** Comparable to the sound of a normal conversation.
- **Clean power output:** Produces 2350 surge watts and 1900 rated watts, safe for sensitive electronics like phones, tablets, and computers.
- **Fuel shutoff feature:** Maximizes generator lifespan by consuming remaining fuel in the carburetor before shutdown.
- **Versatile outlets:** Includes two 120V receptacles, one 12V DC receptacle, and two 5V USB ports.

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 generators outdoors only, far away from windows, doors, and vents. Never operate inside a home, garage, basement, crawlspace, or other enclosed area.
- **Electrical Shock Hazard:** Never operate the generator in wet conditions. Ensure all electrical connections are dry and secure. Do not 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. Avoid contact with hot surfaces to prevent burns. Allow the generator to cool completely before servicing or storing.
- **Children and Pets:** Keep children and pets away from the generator at all times.

Components Overview

Familiarize yourself with the key components of your WEN Inverter Generator.



Figure 1: Front-side view of the WEN 2350-Watt Inverter Generator, highlighting the main control panel and outlets.



Figure 2: Detailed view of the control panel, showing the NEMA 5-20R AC outlets, DC 12V outlet, USB ports, circuit breaker, power switch, and Eco-Mode switch.



Figure 3: Location of the oil fill cap, accessible via a small access panel on the side of the generator.



Figure 4: Diagram illustrating the compact dimensions of the WEN 2350-Watt Inverter Generator: 17.3 inches (L) x 11.5 inches (W) x 17.5 inches (H).

Setup

Before first use, proper setup is crucial for safe and efficient operation.

1. **Add Engine Oil:**

   The generator is shipped without engine oil. Place the generator on a level surface. Locate the oil fill cap (refer to Figure 3). Unscrew the cap and carefully add 10W-30 engine oil until it reaches the upper level of the dipstick. Do not overfill. Replace the oil fill cap securely.

2. **Add Fuel:**

   Use fresh, unleaded gasoline with an octane rating of 87 or higher. Ensure the generator is off and cool before refueling. Open the fuel cap and slowly pour gasoline into the fuel tank (1-gallon capacity), leaving a small air gap at the top to allow for expansion. Securely close the fuel cap.

3. **Positioning:**

   Place the generator outdoors in a well-ventilated area, away from any windows, doors, or vents of buildings. Ensure there is

at least 5 feet of clear space around all sides of the generator to allow for proper airflow and heat dissipation.

Operating Instructions

Follow these steps to safely start and operate your generator.

1. **Starting the Generator:**
   - Ensure the generator is on a level surface.
   - Turn the fuel cap vent lever to the "ON" position.
   - Turn the Power Switch to the "CHOKE" position.
   - Pull the recoil starter handle firmly and smoothly until the engine starts.
   - Once the engine starts, slowly move the Power Switch to the "RUN" position.
2. **Connecting Electrical Devices:**

   Once the generator is running smoothly, you can connect your electrical devices to the appropriate outlets (AC 120V, DC 12V, or USB 5V). Ensure the total wattage of connected devices does not exceed the generator's rated wattage (1900W running, 2350W surge).
3. **Eco-Mode Operation:**

   Engage the Eco-Mode switch to allow the generator's engine to automatically adjust its speed based on the load. This optimizes fuel consumption and reduces noise when less power is required. For maximum power output, turn Eco-Mode off.
4. **Fuel Shut-Off Feature:**

   To prolong the generator's lifespan and minimize carburetor issues from stagnant fuel, utilize the fuel shut-off feature. When you are finished using the generator, turn the fuel shut-off valve to the "OFF" position. Allow the engine to run until it runs out of fuel and shuts down automatically. This ensures the carburetor is empty.
5. **Parallel Connection (Optional):**

   For increased power output, two WEN inverter generators can be linked using a WEN Parallel Connection Kit (sold separately). Refer to the parallel connection kit's manual for detailed instructions.
6. **Stopping the Generator:**

   Disconnect all electrical loads. If not using the fuel shut-off feature, turn the Power Switch to the "OFF" position. Turn the fuel cap vent lever to the "OFF" position.

Maintenance

Regular maintenance is essential for optimal performance and longevity 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. Use 10W-30 engine oil.
- **Air Filter:**

  Inspect the air filter every 50 hours or every 3 months. Clean or replace if dirty. A clogged air filter can reduce engine performance.
- **Spark Plug:**

  Inspect the spark plug every 100 hours or every 6 months. Clean or replace if necessary. Ensure the gap is correct according to the specifications.
- **Fuel Filter:**

  Inspect the fuel filter annually. Replace if clogged or damaged.
- **Storage:**

  For long-term storage, ensure the fuel tank and carburetor are completely drained of fuel (using the fuel shut-off method).

Change the engine oil. Store the generator in a clean, dry, well-ventilated area.

Troubleshooting

This section provides solutions to common operational issues.

Problem	Possible Cause	Solution
Engine will not start	No fuel; Low oil level; Power switch in wrong position; Choke not used; Spark plug issue.	Add fresh fuel; Add engine oil; Turn power switch to CHOKE/RUN; Use choke as per instructions; Inspect/clean/replace spark plug.
No power output	Circuit breaker tripped; Overload; Eco-Mode engaged with high load; Loose connections.	Reset circuit breaker; Reduce load; Turn off Eco-Mode for high loads; Check all connections.
Engine runs rough or stalls	Stale fuel; Clogged air filter; Clogged fuel filter; Incorrect spark plug gap.	Drain and replace with fresh fuel; Clean/replace air filter; Inspect/replace fuel filter; Adjust spark plug gap.
Generator is too loud	Eco-Mode off; High load.	Engage Eco-Mode for lighter loads; Reduce load if possible.

Specifications

Specification	Value
Brand	WEN
Model Number	56235i
Engine Type	4-Stroke OHV
Engine Displacement	79 cc
Fuel Type	Gasoline
Fuel Tank Volume	1 Gallon
Running Wattage	1900 Watts
Starting Wattage	2350 Watts
Voltage	120 Volts
Frequency	60 Hz
Total Power Outlets	5 (2x 120V AC, 1x 12V DC, 2x 5V USB)
Item Weight	39 Pounds
Product Dimensions (L x W x H)	17.3" x 11.5" x 17.5"
Runtime (Half-Load)	Over 5.7 hours

Warranty and Support

The WEN 2350-Watt Inverter Generator (Model 56235i) is backed by a two-year limited warranty. For warranty claims, technical support, or to order replacement parts, please contact WEN customer service.
You can also refer to the official User Manual PDF for more detailed information:WEN 56235i User Manual (PDF)

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