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WEN DF360iX

WEN DF360iX Dual Fuel Inverter Generator User Manual

Model: DF360iX
Brand: WEN

Introduction

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your WEN DF360iX Dual Fuel Inverter Generator. Please read this manual thoroughly before operating the generator to ensure proper use and to prevent injury or damage.
The WEN DF360iX is a quiet and lightweight portable inverter generator designed to provide clean, stable power for sensitive electronics. It features dual-fuel capability, allowing operation on both gasoline and propane, and includes a CO Watchdog sensor for enhanced safety.

Safety Information

WARNING: Operating a generator indoors can kill you in minutes. Generator exhaust contains carbon monoxide (CO), a colorless, odorless gas. Never use a generator inside a home or garage, even if doors and windows are open. Only use outdoors and far away from windows, doors, and vents.

- Always operate the generator in a well-ventilated outdoor area.
- Keep children and pets away from the generator during operation.
- Ensure the generator is placed on a level, stable surface.
- Do not operate the generator in wet conditions or near water.
- Allow the generator to cool completely before refueling or performing maintenance.
- Use only the recommended fuel types (unleaded gasoline or propane).
- Do not overload the generator beyond its rated capacity.

CO Watchdog Shutdown Sensor

Your WEN DF360iX generator is equipped with a CO Watchdog sensor designed to protect users from dangerous levels of carbon monoxide. If the sensor detects high levels of CO, the generator will automatically shut down. If this occurs, immediately move the generator to a fresh air location and allow it to ventilate before attempting to restart.



Image: Close-up of the WEN DF360iX control panel, highlighting the CO Watchdog sensor and its indicator lights. This sensor is a critical safety feature that automatically shuts down the generator if dangerous levels of carbon monoxide are detected, protecting users from potential harm.

Components Overview

Familiarize yourself with the main components of your WEN DF360iX generator:

- **Control Panel:** Contains outlets, data meter, CO Watchdog indicator, circuit breakers, and eco-mode switch.
- **Fuel Tank Cap:** For gasoline refueling.
- **Recoil Starter:** Manual pull-start mechanism.
- **Fuel Selector Switch:** Allows selection between gasoline and propane (LPG).
- **LPG Inlet:** Connection point for propane tank.
- **Oil Fill Cap/Dipstick:** For checking and adding engine oil.
- **Air Filter Cover:** Protects the air filter.
- **Exhaust Outlet:** Where exhaust gases are expelled.



Image: Front view of the WEN DF360iX generator. This image displays the primary control panel, which includes the data meter, various power outlets (AC, DC, USB, RV), and safety indicators like the CO Watchdog. Understanding the layout of these components is crucial for safe and effective operation.



Image: Side view of the WEN DF360iX generator. This perspective highlights the fuel selector switch and the recoil pull-start mechanism, essential for initiating generator operation on either gasoline or propane.

Setup

1. Add Engine Oil

The generator is shipped without engine oil. Before first use, add the recommended amount of 10W-30 engine oil (approximately 0.4 liters). Ensure the generator is on a level surface. Remove the oil fill cap/dipstick, slowly pour in the oil, and check the level with the dipstick. Do not overfill.

2. Add Fuel (Gasoline)

Use fresh, unleaded gasoline with an octane rating of 87 or higher. Open the fuel tank cap and carefully pour gasoline into the tank, ensuring not to overfill. Leave a small air gap to allow for fuel expansion. Securely close the fuel tank cap.

3. Connect Propane (LPG)

For propane operation, connect a standard 20-pound LPG tank (not included) to the generator's LPG inlet using the provided tool-free quick-connector hose. Ensure all connections are tight to prevent leaks.

Operating Instructions

Starting the Generator

1. Ensure the generator is on a level outdoor surface, away from any enclosures.
2. **For Gasoline:** Turn the fuel selector switch to the "Gasoline" position.
3. **For Propane:** Connect the propane tank and open its valve. Turn the fuel selector switch to the "Propane" position.
4. Turn the engine switch to the "ON" position.
5. If the engine is cold, pull the choke lever to the "CHOKE" position.
6. Firmly pull the recoil starter handle until the engine starts.
7. Once the engine starts, slowly push the choke lever back to the "RUN" position.

Connecting Electrical Devices

After the generator is running stably, you can connect your electrical devices to the appropriate outlets. The generator provides two three-prong 120V NEMA 5-20R receptacles, one 12V DC receptacle, one 120V TT-30R RV receptacle, and two 5V USB ports. Always ensure the total wattage of connected devices does not exceed the generator's rated running wattage.

Eco-Mode Operation

Engage the eco-mode switch to maximize fuel economy. In eco-mode, the generator's engine automatically adjusts its speed and fuel consumption based on the load, reducing noise and extending run time when less power is required.

Parallel Connection

For increased power output, you can link up any two WEN inverter generators using a WEN Parallel Connection Kit (sold separately). Refer to the parallel connection kit's manual for detailed instructions.

Stopping the Generator

1. Disconnect all electrical devices from the generator.
2. Turn the engine switch to the "OFF" position.
3. **For Gasoline:** Turn the fuel selector switch to the "Fuel Shut Off" position. This allows the generator to use up remaining fuel from the carburetor, preventing stagnation.
4. **For Propane:** Close the valve on the propane tank.

Maintenance

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

- **Engine Oil:** Check oil level before each use. Change oil after the first 20 hours of operation, then every 50-100 hours or annually, whichever comes first.

- **Air Filter:** Inspect and clean the air filter every 50 hours or more frequently in dusty conditions. Replace if damaged.
- **Spark Plug:** Inspect and clean the spark plug every 100 hours. Replace if necessary.
- **Fuel System:** Utilize the fuel shut-off feature after each gasoline use to drain the carburetor and prevent fuel-related issues. For long-term storage, drain the fuel tank completely.
- **General Cleaning:** Keep the generator clean and free of debris. Ensure cooling vents are not obstructed.

Troubleshooting

Problem	Possible Cause	Solution
Engine will not start	No fuel, low oil, engine switch OFF, choke not used, stale fuel.	Add fuel, add oil, turn engine switch ON, use choke, drain and refill with fresh fuel.
No power output	Overload, circuit breaker tripped, eco-mode engaged with high load.	Reduce load, reset circuit breaker, disengage eco-mode for high loads.
CO Watchdog light active / Generator shuts down	High carbon monoxide levels detected.	Move generator to fresh air immediately. Do not restart until area is clear.
Engine runs rough	Stale fuel, dirty air filter, incorrect spark plug gap.	Drain and refill with fresh fuel, clean/replace air filter, check/adjust spark plug gap.

Specifications

Feature	Detail
Model	DF360iX
Engine Type	149cc 4-Stroke
Fuel Type	Gasoline / Propane (LPG)
Gasoline Surge Watts	3600 Watts
Gasoline Rated Watts	2900 Watts
Propane Surge Watts	3500 Watts
Propane Rated Watts	2600 Watts
Fuel Tank Capacity	1.5 Gallons
Gasoline Run Time (Half Load)	Up to 5 hours
Propane Run Time (Half Load, 20lb tank)	Up to 14 hours
Noise Level (Quarter Load)	65 dB
Total Harmonic Distortion (THD)	<0.3% (no load), <1.2% (full load)
Weight	49 Pounds
Dimensions (L x W x H)	18" x 11.63" x 19.68"

Feature	Detail
Outlets	2x 120V NEMA 5-20R, 1x 12V DC, 1x 120V TT-30R RV, 2x 5V USB



Image: Dimensional view of the WEN DF360iX generator. This image provides key measurements (length, width, height) of the unit, which are important for transport, storage, and placement considerations.

Warranty and Support

Your WEN DF360iX Dual Fuel Inverter Generator comes backed by a**3-year limited warranty**. This warranty covers defects in material and workmanship under normal use and service.
For warranty claims, technical assistance, or to locate a nationwide network of skilled service technicians, please contact WEN customer support. Refer to the official WEN website or your purchase documentation for the most current contact information.
WEN is committed to providing reliable products and excellent customer service. Should you encounter any issues, do not hesitate to reach out to their friendly customer helpline.

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