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WEN DF480iX

WEN 4800-Watt Dual Fuel RV-Ready Electric Start Portable Inverter Generator

MODEL: DF480iX

INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your WEN DF480iX 4800-Watt 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 DF480iX 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 (LPG), an electric start, and a CO Watchdog shutdown sensor for enhanced safety.

SAFETY INFORMATION

WARNING: Operating this generator can produce carbon monoxide, an odorless, colorless, poisonous gas. Carbon monoxide can kill you in minutes. Always operate the generator outdoors in a well-ventilated area, far away from windows, doors, and vents.

- Do not operate indoors or in enclosed spaces.
- Keep children and pets away from the generator.
- Ensure proper grounding before operation.
- Do not refuel while the engine is running or hot.
- Always use fresh, clean fuel.
- Wear appropriate personal protective equipment (PPE) when handling fuel or performing maintenance.
- The CO Watchdog sensor is a safety feature; do not disable or tamper with it.

COMPONENTS OVERVIEW

Familiarize yourself with the main components of your WEN DF480iX generator.



Figure 1: Overall view of the WEN DF480iX Inverter Generator, showcasing its compact design and integrated wheels.



Figure 2: Detailed view of the control panel, including outlets, data meter, and CO Watchdog sensor.

Key Components:

- **Control Panel:** Houses outlets, data meter, circuit breakers, and start controls.
- **Fuel Tank Cap:** For gasoline refueling.
- **Oil Fill Cap/Dipstick:** For checking and adding engine oil.
- **LPG Quick-Connector:** For connecting propane tank.
- **Wheels and Telescoping Handle:** For easy portability.
- **CO Watchdog Sensor:** Automatically shuts off the generator if dangerous levels of carbon monoxide are detected.
- **Eco-Mode Switch:** Adjusts engine speed to maximize fuel economy.

SETUP

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

1. Add Engine Oil:

- Place the generator on a level surface.
- Remove the oil fill cap/dipstick.
- Add recommended engine oil (e.g., 10W-30) until it reaches the upper mark on the dipstick. Do not overfill.
- Securely replace the oil fill cap/dipstick.

2. Add Fuel (Gasoline):

- Ensure the generator is off and cool.
- Open the fuel tank cap.
- Carefully pour fresh, unleaded gasoline (minimum 87 octane) into the fuel tank. Do not fill above the red indicator.
- Securely close the fuel tank cap.



Figure 3: Location of the fuel tank cap for gasoline refueling.

3. Connect Propane (LPG - Optional):

- Ensure the propane tank valve is closed.
- Connect the propane hose to the generator's LPG quick-connector and to the propane tank.
- Tighten all connections securely.

4. Grounding:

- Connect a grounding wire from the generator's grounding terminal to a suitable ground source (e.g., a ground rod).

OPERATING INSTRUCTIONS

Follow these steps to safely start and operate your generator.

Starting the Generator (Electric Start):

1. Ensure the generator is on a level surface, outdoors, and away from any combustible materials.

2. Turn the fuel valve to the 'ON' position (for gasoline) or open the propane tank valve (for LPG).
3. Ensure all circuit breakers on the control panel are in the 'OFF' position.
4. Press and hold the electric start button until the engine starts. If it doesn't start immediately, release and try again after a few seconds.
5. Once the engine is running, allow it to warm up for a few minutes before connecting any loads.
6. Flip the circuit breakers to the 'ON' position to supply power to the outlets.

Using Eco-Mode:

- Engage the Eco-Mode switch to allow the generator's engine to automatically adjust its speed based on the load. This conserves fuel and reduces noise when less power is required.
- Disengage Eco-Mode for full power output or when starting high-demand appliances.

Shutting Down the Generator:

1. Disconnect all electrical loads from the generator.
2. Flip all circuit breakers to the 'OFF' position.
3. Turn the fuel valve to the 'OFF' position (for gasoline) or close the propane tank valve (for LPG).
4. Allow the engine to run until it runs out of fuel and shuts off automatically. This helps prevent fuel stagnation in the carburetor.
5. Turn the ignition switch to the 'OFF' position.

MAINTENANCE

Regular maintenance ensures 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 100 hours or annually.
- **Air Filter:** Inspect every 50 hours or monthly. Clean or replace if dirty.
- **Spark Plug:** Inspect every 100 hours or annually. Clean or replace as needed.
- **Fuel Filter:** Inspect annually. Replace if clogged.
- **General Cleaning:** Keep the generator clean and free of debris. Ensure cooling vents are not obstructed.
- **Storage:** For long-term storage, drain the fuel tank and carburetor, or use a fuel stabilizer. Store in a dry, well-ventilated area.

TROUBLESHOOTING

Refer to this table for common issues and their solutions.

Problem	Possible Cause	Solution
Engine will not start	No fuel; Low oil; Spark plug issue; Choke position; CO Watchdog activated	Add fuel; Add oil; Check/replace spark plug; Adjust choke; Check CO Watchdog indicator
No power output	Circuit breaker tripped; Overload; Loose connections	Reset breaker; Reduce load; Check connections
Engine runs rough	Stale fuel; Clogged air filter; Dirty spark plug	Drain/replace fuel; Clean/replace air filter; Clean/replace spark plug

Problem	Possible Cause	Solution
CO Watchdog light on	High carbon monoxide levels detected	Move generator to a well-ventilated area immediately. Do not operate until light clears.

SPECIFICATIONS

Key technical specifications for the WEN DF480iX generator.

Feature	Detail
Model	DF480iX
Engine Displacement	224cc
Fuel Type	Gasoline, Liquefied Petroleum Gas (LPG)
Gasoline Surge Watts	4800 Watts
Gasoline Rated Watts	4000 Watts
LPG Surge Watts	4320 Watts
LPG Rated Watts	3600 Watts
Fuel Tank Capacity	1.9 Gallons
Gasoline Run Time (Half Load)	Up to 7 hours
LPG Run Time (Half Load)	Up to 20 hours (on 20-pound tank)
Noise Level (Quarter Load)	62 dB
Outlets	4x 120V NEMA 5-20R, 1x 12V DC, 1x 120V TT-30R RV, 2x 5V USB
Weight	78.5 Pounds
Dimensions (L x W x H)	24"L x 1263"W x 22"H

WARRANTY AND SUPPORT

Your WEN DF480iX Inverter Generator is backed by a **3-year limited warranty**. This warranty covers defects in material and workmanship under normal use.

For technical assistance, warranty claims, or to locate authorized service centers, please contact WEN customer support. Have your model number (DF480iX) and serial number ready when contacting support.

WEN Customer Service: Refer to the official WEN website or your product registration card for the most current contact information.

