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> [Clarke IG3500AF 3400W Max Inverter Generator User Manual](#)

Clarke IG3500AF

Clarke IG3500AF 3400W Max Inverter Generator

User Manual

1. IMPORTANT SAFETY INFORMATION

Read and understand this entire manual before operating the generator. Failure to follow instructions can result in 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 from windows, doors, and vents. Never operate indoors or in enclosed spaces.
- **Electrical Safety:** Never operate the generator in wet conditions. Ensure all electrical connections are secure and properly grounded. Do not overload the generator.
- **Fuel Safety:** Gasoline is highly flammable. Always 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 an approved container.
- **General Operation:** Keep children and pets away from the generator during operation. Wear appropriate personal protective equipment (PPE). Ensure the generator is placed on a level surface.

2. PRODUCT OVERVIEW

The Clarke IG3500AF is a powerful and portable inverter generator designed to provide clean and stable electricity for various applications. Its advanced technology ensures a near-pure sine wave output, making it safe for sensitive electronics.



Figure 1: Clarke IG3500AF Inverter Generator

Key Features:

- **Engine:** 212cc 4-stroke engine.
- **Power Output:** 3.4kW Max AC output, 3.2kW continuous rated power.
- **Outlets:** 2 x 230V AC outlets, 1 x 12V/8A DC outlet.
- **Waveform:** Near-pure sine wave AC output (THD \leq 3%) for sensitive electronics.
- **Starting System:** Recoil start.
- **Run Time:** Approximately 8 hours at 75% load on a full tank.
- **Fuel Capacity:** 13 liters.
- **Fuel Efficiency:** ECO throttle system to minimize fuel consumption and noise.
- **Dimensions:** 555 x 465 x 495 mm.
- **Weight:** 35 kg.
- **Noise Level:** 96dB(A).

3. SETUP GUIDE

3.1 Unpacking

1. Carefully remove the generator from its packaging.

2. Inspect for any shipping damage. Contact your dealer immediately if damage is found.
3. Ensure all included components are present.

3.2 Adding Engine Oil

The generator is shipped without engine oil. Operating without oil will cause severe engine damage.

1. Place the generator on a level surface.
2. Locate the oil fill cap/dipstick.
3. Remove the dipstick and wipe it clean.
4. Add recommended engine oil (e.g., SAE 10W-30) to the crankcase until the oil level reaches the upper mark on the dipstick. Do not overfill.
5. Securely replace the oil fill cap/dipstick.

3.3 Adding Fuel

Use only fresh, unleaded gasoline with an octane rating of 87 or higher.

1. Ensure the generator is turned OFF and has cooled down.
2. Move the generator to a well-ventilated outdoor area for refueling.
3. Unscrew the fuel cap.
4. Carefully pour gasoline into the fuel tank, up to the fill limit (approximately 13 liters). Do not overfill.
5. Securely replace the fuel cap. Wipe up any spilled fuel immediately.

4. OPERATING INSTRUCTIONS

4.1 Starting the Generator (Recoil Start)

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 'ON' position.
5. Grasp the recoil starter handle firmly and pull it slowly until resistance is felt, then pull quickly and smoothly. Repeat until the engine starts.
6. Once the engine starts, slowly move the choke lever to the 'RUN' position.
7. Allow the engine to warm up for a few minutes before connecting electrical loads.

4.2 Stopping the Generator

1. Disconnect all electrical loads from the generator.
2. Allow the generator to run for a few minutes without load to cool down.
3. Turn the engine switch to the 'OFF' position.
4. Turn the fuel valve to the 'OFF' position.

4.3 Connecting Electrical Devices

- Ensure the generator is running stably before connecting devices.
- Plug your 230V AC devices into the AC outlets.
- For 12V DC charging, connect your device to the 12V DC outlet.
- Do not exceed the generator's rated power output (3.2kW continuous, 3.4kW max).

4.4 ECO Throttle System

The ECO throttle system automatically adjusts engine speed to match the load, reducing fuel consumption and noise levels. For maximum power or when starting high-load devices, it may be necessary to switch the ECO throttle OFF.

4.5 Overload Protection

The generator is equipped with an overload protection system. If the generator is overloaded, the circuit breaker will trip, and power output will stop. Reduce the load and reset the circuit breaker to restore power.

5. MAINTENANCE

Regular maintenance is crucial for the longevity and reliable operation of your generator. Always turn off the engine and allow it to cool before performing any maintenance.

5.1 Regular Checks (Before Each Use)

- Check engine oil level.
- Check fuel level.
- Inspect for any loose fasteners or damaged components.

5.2 Air Filter

Clean the air filter every 50 hours of operation or more frequently in dusty conditions. Replace if damaged.

1. Remove the air filter cover.
2. Remove the foam filter element.
3. Wash the element in warm, soapy water, rinse, and allow to air dry completely.
4. Lightly oil the foam element with engine oil, then squeeze out excess oil.
5. Reinstall the filter element and cover.

5.3 Spark Plug

Inspect the spark plug every 100 hours of operation. Replace if necessary.

1. Remove the spark plug cap.
2. Use a spark plug wrench to remove the spark plug.
3. Check for carbon deposits or wear. Clean with a wire brush if needed.
4. Check the spark plug gap (refer to specifications for correct gap).
5. Reinstall the spark plug and cap.

5.4 Fuel Filter

Inspect the fuel filter periodically and replace if clogged or damaged. Refer to the service manual for detailed instructions.

5.5 Storage

For extended storage (more than 30 days):

- Drain the fuel tank and carburetor.
- Add a fuel stabilizer if draining is not possible.
- Change the engine oil.
- Clean the generator thoroughly.
- Store in a clean, dry, well-ventilated area.

6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Engine will not start	No fuel Low oil level Engine switch OFF Choke incorrect Spark plug faulty	Add fuel Add oil Turn engine switch ON Adjust choke Clean/replace spark plug
No power output	Overload Circuit breaker tripped Loose connections	Reduce load Reset circuit breaker Check and secure connections
Engine stops during operation	Out of fuel Low oil level Overload	Add fuel Add oil Reduce load

7. TECHNICAL SPECIFICATIONS

Specification	Value
Brand	Clarke
Model Number	8877125 (IG3500AF)
Engine Type	212cc 4-stroke
Power Source	Fuel (Petrol)
Max Output Power	3400 Watt (3.4 kW)
Continuous Rated Power	3200 Watt (3.2 kW)
Voltage	230 Volt AC, 12 Volt DC
Fuel Type	Petrol
Fuel Tank Capacity	13 Liters
Run Time (75% load)	8 hours
Special Features	Portable, ECO Throttle, Pure Sine Wave
Included Components	Recoil Starter
Color	Black
Dimensions (L x W x H)	555 x 465 x 495 mm
Weight	35 kg
Sound Level	96 dB(A)

8. WARRANTY AND CUSTOMER SUPPORT

Warranty information for the Clarke IG3500AF Inverter Generator is typically provided at the time of purchase or included with the product documentation. Please refer to your purchase receipt or the warranty card for specific terms and conditions.

For technical assistance, spare parts, or warranty claims, please contact your authorized Clarke dealer or the manufacturer's customer support directly. Ensure you have your model number (IG3500AF) and serial number ready when

contacting support.