

DUCAR D 1000iS

DUCAR D 1000iS Inverter Generator User Manual

Model: D 1000iS

1. SAFETY INFORMATION

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.

1.1 Carbon Monoxide Hazard

- Generators produce carbon monoxide, an odorless, colorless gas that can kill you.
- **NEVER** operate the generator indoors or in partially enclosed areas.
- Always use the generator outdoors in a well-ventilated area, far from windows, doors, and vents.

1.2 Electrical Shock Hazard

- Do not operate the generator in wet conditions. Keep it dry.
- Ensure all electrical connections are secure and properly grounded.
- Never touch the generator or connected devices with wet hands.

1.3 Fire Hazard

- Fuel 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, especially during refueling.
- Store fuel in an approved container in a safe location.

2. PRODUCT OVERVIEW

The DUCAR D 1000iS is a compact and efficient inverter generator designed to provide portable electrical power. It features a 4-stroke engine and inverter technology for stable power output.

2.1 Key Features

- Inverter power generator
- 4-stroke engine, 54 cc displacement
- Recoil start

- Fuel tank capacity: 3 liters (petrol)
- Maximum power output: 1000 VA (1000 Watts)
- Low noise level: 56 dB(A) at 7 meters
- Weight: 14 kg
- Electronic voltage regulator (inverter)

2.2 Generator Components

Familiarize yourself with the main components of your DUCAR D 1000iS generator:



This image shows the DUCAR D 1000iS Inverter Generator from an angled perspective, highlighting its compact design and control panel. Key dimensions are overlaid: 94cm height, 64cm length, and 44cm width.

- **Fuel Tank Cap:** For adding gasoline.
- **Control Panel:** Contains outlets, switches, and indicators.
- **Recoil Starter:** For manual engine starting.
- **Oil Fill Cap/Dipstick:** For adding and checking engine oil.
- **Air Filter Cover:** Protects the air filter.
- **Exhaust Outlet:** Releases engine exhaust.

3. SETUP

Before first use, or after extended storage, proper setup is crucial for safe and efficient operation.

3.1 Add Engine Oil

The generator is shipped without engine oil. You must add the correct amount of oil before starting.

1. Place the generator on a level surface.
2. Unscrew and remove the oil fill cap/dipstick.
3. Carefully pour approximately 350ml of SAE 10W-30 engine oil into the oil fill opening. Do not overfill.

4. Check the oil level using the dipstick. The oil level should be at the 'L' (Low) position or slightly above, but not exceeding the 'H' (High) mark.
5. Securely replace the oil fill cap/dipstick.

3.2 Add Fuel

Use unleaded gasoline with an octane rating of 87 or higher. Do not use E85 fuel.

1. Ensure the generator is off and cool.
2. Unscrew the fuel tank cap.
3. Carefully pour gasoline into the fuel tank, up to the fill limit (maximum 3 liters). Do not overfill.
4. Securely replace the fuel tank cap.

Video: Generator Setup and Operation

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This video provides a step-by-step guide on preparing and starting an inverter generator, including adding engine oil, filling the fuel tank, and engaging the choke and engine switch. The procedures are similar for the DUCAR D 1000iS model.

4. OPERATING INSTRUCTIONS

4.1 Starting the Generator

1. Ensure the generator is on a level surface and in a well-ventilated outdoor area.
2. Turn the fuel switch to the "ON" position.
3. Move the choke lever to the "CHOKE" position (for cold starts).
4. Turn the engine switch to the "ON" position.
5. Pull the recoil starter handle firmly and smoothly until the engine starts.
6. Once the engine starts, gradually move the choke lever to the "RUN" position.
7. Allow the engine to warm up for 3-5 minutes before connecting any devices.

4.2 Connecting Devices

After the generator has warmed up, you can connect your electrical devices to the appropriate outlets on the control panel.

- Ensure the total wattage of connected devices does not exceed the generator's rated output (900W continuous, 1000W peak).
- Plug in your devices one at a time.

4.3 Stopping the Generator

1. Disconnect all electrical devices from the generator.
2. Turn the engine switch to the "OFF" position.
3. Turn the fuel switch to the "OFF" position.

Video: Inverter Generator in Use

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This video demonstrates the operation of an inverter generator, including starting procedures, connecting devices, and observing the digital display. While the model shown is 2000W, the operational steps are generally applicable to the DUCAR D 1000iS.

4.4 Using the Digital Display

The digital display provides real-time information about the generator's performance. Press the 'M' (Menu) button to cycle through different data points:

- **Voltage (V):** Output voltage (e.g., 230V).
- **Frequency (Hz):** Output frequency (e.g., 50 Hz).
- **Run Time (h):** Operating time for the current session.
- **Total Run Time (h):** Total operating hours since first use.
- **Current (A):** Output current.
- **Load (%):** Percentage of generator utilization.
- **RPM:** Engine revolutions per minute.

If an alarm light illuminates or in case of overload, check the load, then press the 'M' button for 3 seconds to reset and restart the generator.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your generator. Always turn off the engine and allow it to cool before performing any maintenance.

5.1 Engine Oil

- Check oil level before each use.
- Change oil after the first 20 hours of operation, then every 50 hours or annually.

5.2 Air Filter

- Inspect the air filter every 50 hours or every 3 months.
- Clean or replace if dirty.

5.3 Spark Plug

- Inspect the spark plug every 100 hours or every 6 months.
- Clean or replace if necessary.

5.4 Fuel System

- Drain the fuel tank and carburetor if storing the generator for more than 30 days.
- Use a fuel stabilizer if you cannot drain the fuel.

6. TROUBLESHOOTING

This section provides solutions to common operational issues.

6.1 Engine Does Not Start

- **No Fuel:** Check fuel level and add unleaded gasoline if needed.
- **No Oil:** Check oil level and add SAE 10W-30 engine oil if needed.
- **Choke Position:** Ensure choke is in the correct position for starting (CHOKE for cold, RUN for warm).
- **Engine Switch:** Verify the engine switch is in the "ON" position.
- **Spark Plug:** Inspect the spark plug for fouling or damage. Clean or replace if necessary.

6.2 No Power Output

- **Overload:** Disconnect all devices and restart the generator. Reduce the load.
- **Circuit Breaker:** Check if any circuit breakers have tripped on the control panel. Reset if needed.
- **ECO Mode:** Ensure ECO mode is not causing insufficient power for high-demand devices.

6.3 Engine Runs Poorly

- **Stale Fuel:** Drain old fuel and refill with fresh gasoline.
- **Air Filter:** Clean or replace a dirty air filter.
- **Spark Plug:** Inspect and clean or replace the spark plug.

7. SPECIFICATIONS

Specification	Value
Model	D 1000iS
Engine Type	4-stroke OHV
Displacement	54 cc
Fuel Type	Unleaded Gasoline
Fuel Tank Capacity	3 liters
Starting System	Manual (Recoil)
Max Power Output	1000 W
Rated Power Output	900 W
AC Output	230 Vac - 50 Hz - 3.9 Ah
DC Output	12 Vdc - 5.0 Ah
Battery Charger	12 Vdc - 7.5 Ah
Noise Level (7m)	56 dB(A)
Guaranteed Noise Level Lw(A)	90 dB(A)
Max Altitude	1000 m
Dimensions (L x W x H)	47.6 x 27.1 x 42.5 cm (from description) / 94L x 64l x 44H cm (from specifications, conflicting, using description's more specific values)
Weight	14 kg

8. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact DUCAR customer service or

your authorized dealer. Keep your purchase receipt and serial number handy for faster service.