

Güde ISG 800-1

Güde Inverter Generator ISG 800-1 User Manual

Model: ISG 800-1 | Brand: Güde

1. INTRODUCTION

The Güde Inverter Generator ISG 800-1 is designed to provide stable and reliable power for sensitive electronic devices such as smartphones and Bluetooth speakers. Its advanced inverter technology ensures clean power output. With a compact size and a powerful 4-stroke OHV gasoline engine, it delivers a rated power of 800 W and a continuous power of 700 W. It features multiple output options including 230 V AC, 12 V DC, and two USB ports. The generator incorporates safety features such as overload protection, low oil indicator, and automatic shutdown, complying with Euro 5 exhaust gas regulations.

2. SAFETY INSTRUCTIONS

Always prioritize safety when operating the generator. Failure to follow these instructions can result in serious injury or death.

- **Carbon Monoxide Hazard:** Generators produce carbon monoxide, an odorless, colorless, and poisonous gas. Operate the generator outdoors in a well-ventilated area, far away from windows, doors, and vents. Never operate it indoors, in a garage, or in any enclosed space.
- **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 or fuel. Store gasoline in an approved container in a safe location.
- **Electrical Shock Hazard:** Do not operate the generator in wet conditions. Ensure all electrical connections are dry and secure. Never touch the generator with wet hands.
- **Hot Surfaces:** The generator's engine and muffler become very hot during operation and remain hot for some time after shutdown. Avoid touching hot surfaces to prevent burns.
- **Children and Pets:** Keep children and pets away from the generator at all times.
- **Grounding:** Always properly ground the generator before operation to prevent electrical shock.

3. COMPONENTS OVERVIEW

Familiarize yourself with the main components of your Güde ISG 800-1 Inverter Generator.



Figure 3.1: Control Panel and Key Features

This image shows the main control panel of the Güde ISG 800-1. Key features include the OUTPUT RESET button, ECO mode switch, generator ON/OFF switch, AC 230V socket, DC 12V 4A socket, two USB ports, recoil start handle, low oil indicator, and overload indicator. The image also highlights the rated power (800W) and continuous power (700W), and non-slip anti-vibration feet.

- **Fuel Tank Cap:** Located on top of the unit, used for filling gasoline.
- **Recoil Starter:** Manual pull-start mechanism for the engine.
- **Control Panel:** Contains all output ports, indicators, and switches for operation.
- **AC 230V Output:** Standard household power outlet.
- **DC 12V 4A Output:** For charging 12V batteries or powering 12V devices.
- **USB Ports (2x):** For charging USB-powered devices (1A and 2.1A).
- **ECO Mode Switch:** Engages economy mode for reduced fuel consumption and noise at lower loads.
- **Overload Indicator:** Lights up if the generator is overloaded.
- **Low Oil Indicator:** Lights up when engine oil level is low, and may automatically shut down the engine.
- **Ground Terminal:** For connecting a ground wire.



Figure 3.2: Fuel Tank Cap

This image shows a close-up of the fuel tank cap, located on the top of the generator for easy access during refueling.

Nennleistung: 800W
Dauerleistung: 700W



Figure 3.3: Recoil Starter

This image displays the recoil starter handle, used for manually starting the generator engine.

4. SETUP

Before first use, or after extended storage, perform the following setup steps.

4.1 Adding Engine Oil

The generator is shipped without engine oil. It is crucial to add the correct type and amount of oil before starting the engine.

1. Place the generator on a level surface.
2. Locate the oil fill cap/dipstick (refer to your specific model diagram if available).
3. Remove the oil fill cap/dipstick.
4. Carefully pour the recommended engine oil (see Figure 4.1 for oil type recommendations based on temperature) into the oil fill opening until it reaches the upper limit mark on the dipstick. The oil capacity is 0.25 liters.
5. Replace the oil fill cap/dipstick securely.

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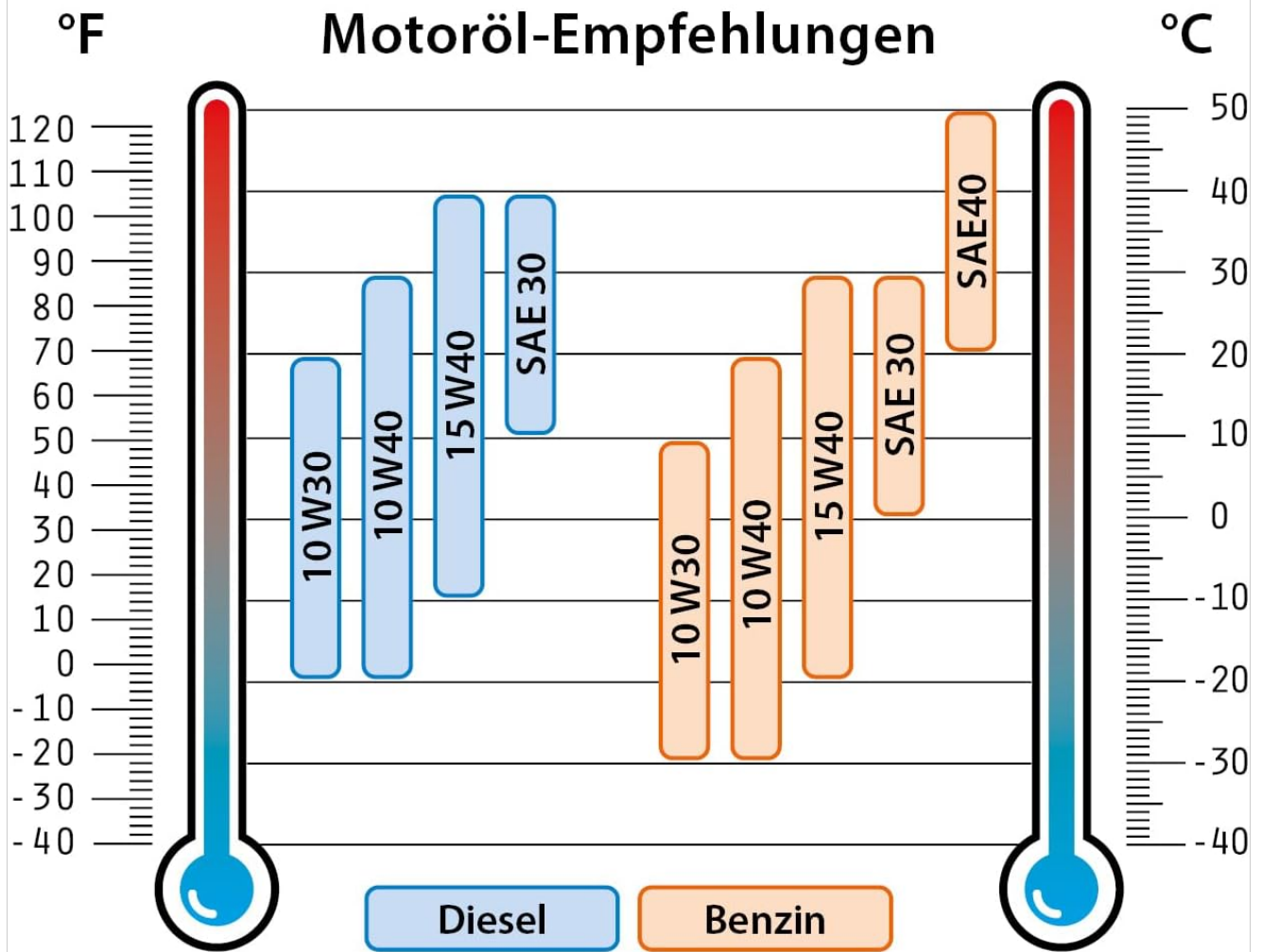


Figure 4.1: Engine Oil Recommendations

This chart provides engine oil recommendations based on ambient temperature. For gasoline engines, suitable oil types include 10W30, 10W40, 15W40, SAE 30, and SAE 40, with specific temperature ranges for each. Always use a high-quality 4-stroke engine oil.

4.2 Adding Fuel

Use fresh, unleaded gasoline with an octane rating of 87 or higher. The fuel tank capacity is 2.1 liters.

1. Ensure the generator is turned OFF and the engine is cool.
2. Move the generator to a well-ventilated outdoor area for refueling.
3. Unscrew the fuel tank cap.
4. Slowly add gasoline to the fuel tank, being careful not to overfill. Do not fill above the red indicator line inside the tank.
5. Securely replace the fuel tank cap. Wipe up any spilled fuel immediately.

4.3 Grounding the Generator

Proper grounding is essential for safety.

1. Connect a heavy-gauge copper wire (not included) to the generator's ground terminal.
2. Connect the other end of the wire to a suitable ground source, such as a metal ground rod driven into the earth.

5. OPERATING INSTRUCTIONS

Follow these steps to start and operate your generator safely.

5.1 Starting the Engine

1. Ensure the generator is on a level surface and properly grounded.
2. Check oil and fuel levels.
3. Turn the engine switch to the "ON" position.
4. If the engine is cold, move the choke lever to the "CHOKE" position.
5. Firmly grasp the recoil starter handle and pull it slowly until resistance is felt, then pull quickly and smoothly to start the engine. Repeat if necessary.
6. Once the engine starts, slowly move the choke lever back to the "RUN" position.

5.2 Connecting Electrical Devices

Once the engine is running, you can connect your devices.

1. Ensure the generator's output switch (if present) is in the "ON" position.
2. Plug your devices into the appropriate outlets (230V AC, 12V DC, or USB).
3. Do not exceed the generator's rated power output (800W peak, 700W continuous). Overloading will trigger the overload protection and shut down power output. If this happens, reduce the load and press the OUTPUT RESET button.

5.3 Using ECO Mode

The ECO mode reduces engine speed when the electrical load is low, saving fuel and reducing noise.

- To activate ECO mode, switch the ECO switch to "ON". The engine speed will adjust automatically based on the load.
- For maximum power or when starting high-load devices, switch ECO mode to "OFF".

5.4 Stopping the Engine

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

6. MAINTENANCE

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

6.1 Engine Oil Change

Change the engine oil after the first 20 hours of operation, and then every 50-100 hours or annually, whichever comes first.

1. Run the engine for a few minutes to warm the oil, then turn it off.
2. Place a drain pan under the oil drain plug.
3. Remove the oil drain plug and the oil fill cap/dipstick to allow the oil to drain completely.
4. Replace the oil drain plug and refill with the recommended amount and type of new oil (0.25 liters).
5. Replace the oil fill cap/dipstick. Dispose of used oil responsibly.

6.2 Air Filter Cleaning

Inspect the air filter every 25 hours or monthly, and clean or replace as needed.

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

6.3 Spark Plug Inspection

Inspect the spark plug every 100 hours or annually.

1. Remove the spark plug cap.
2. Use a spark plug wrench to remove the spark plug.
3. Check for carbon deposits, discoloration, or electrode wear. Clean or replace if necessary.
4. Set the spark plug gap according to the specifications in your manual (typically 0.6-0.7 mm).
5. Reinstall the spark plug and cap.

6.4 Storage

For long-term storage (more than 30 days), prepare the generator as follows:

- Drain the fuel tank and carburetor, or add a fuel stabilizer.
- Change the engine oil.
- Remove the spark plug and pour a small amount of engine oil into the cylinder. Pull the recoil starter a few times to distribute the oil, then reinstall the spark plug.
- Clean the exterior of the generator.
- Store in a clean, dry, well-ventilated area.

7. TROUBLESHOOTING

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
Engine does not start	No fuel Low engine oil Engine switch OFF Choke not set correctly Faulty spark plug	Add fuel Add engine oil Turn engine switch to ON Adjust choke lever Clean or replace spark plug
No power output	Overload protection activated Output switch OFF Faulty device	Reduce load, press OUTPUT RESET Turn output switch to ON Test device on another power source
Engine runs rough	Stale fuel Dirty air filter Incorrect spark plug gap	Drain and refill with fresh fuel Clean air filter Adjust or replace spark plug
Overload indicator lights up	Connected devices exceed generator capacity	Disconnect some devices, press OUTPUT RESET. Ensure total wattage does not exceed 700W continuous.

8. TECHNICAL SPECIFICATIONS

Detailed specifications for the Güde Inverter Generator ISG 800-1.

Feature	Specification
Model Number	40717
Engine Type	4-stroke OHV Gasoline Engine
Engine Power	0.9 kW / 1.2 PS
Displacement	40 cm³
Fuel Type	Unleaded Gasoline
Fuel Tank Capacity	2.1 liters
Engine Oil Capacity	0.25 liters
Starting System	Recoil Start
Rated Power (AC)	800 W
Continuous Power (AC)	700 W
Output Voltage (AC)	230 V
Frequency	50 Hz
Output Current (DC)	12 V, 4 A
USB Output	2 ports (1A and 2.1A)
Runtime (at 50% load)	Up to 6.3 hours
Protection Class (IP)	IP23M
Overload Protection	Yes
Noise Level LWA	89 dB
Dimensions (L x W x H)	440 x 250 x 390 mm
Net Weight	10.1 kg
Special Features	Restart button, Recoil start, ECO mode

9. WARRANTY AND SUPPORT

Güde is committed to providing quality products and excellent customer service.

9.1 Spare Parts Availability

Güde maintains a stock of appropriate spare parts for all products, including older models, available through their service

center.

9.2 Customer Service

For assistance with your Güde device, qualified personnel at the internal service center are available to help via telephone.

9.3 Repair Service

If your Güde device requires professional assistance, the internal repair service is available to provide support.

For further information or to contact support, please visit the official Güde website or refer to the contact details provided in your product packaging.