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AIVOLT 1900W

AIVOLT 1900W Silent Inverter Generator User Manual

Model: 1900W

1. Introduction

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your AIVOLT 1900W Silent Inverter Generator. Please read this manual thoroughly before operating the generator to ensure proper use and to prevent injury or damage.



Image 1.1: The AIVOLT 1900W Silent Inverter Generator. This image displays the compact, orange and black generator from a front-side angle, highlighting its control panel and carrying handle.

2. Safety Information

Operating a generator requires adherence to strict safety guidelines to prevent accidents, injury, or property damage. Always follow these precautions:

- **Carbon Monoxide Hazard:** Never operate the generator indoors or in enclosed spaces. Generators produce carbon monoxide, a colorless, odorless, poisonous gas that can cause serious injury or death. Operate only outdoors and far from windows, doors, and vents.
- **Fire Hazard:** Gasoline is highly flammable. Refuel in a well-ventilated area with the engine off and cooled. Do not smoke or allow open flames near the generator. Store fuel in approved containers.

- **Electrical Shock Hazard:** Do not operate the generator in wet conditions. Ensure all electrical connections are secure and dry. Use only grounded extension cords.
- **Hot Surfaces:** The generator engine and muffler become very hot during operation and remain hot for some time after shutdown. Avoid contact to prevent burns.
- **Grounding:** Always properly ground the generator before operation to prevent electrical shock. Refer to the 'Setup' section for grounding instructions.
- **Children and Pets:** Keep children and pets away from the generator during operation and while it is cooling down.
- **Read the Manual:** Familiarize yourself with all controls and features before starting the generator.

3. Product Overview

3.1 Key Features

- **Quiet Inverter Design:** Produces clean, stable power suitable for sensitive electronics with a low noise output of approximately 58 dB at 0% load.
- **LED Warning Lights:** Indicators for low oil, overload, and output readiness enhance operational safety.
- **Low Fuel Consumption:** Eco-mode minimizes fuel usage by adjusting engine speed to the load.
- **Portable Design:** Equipped with a convenient handle for easy transport, weighing approximately 19.7 kg.
- **Versatile Power Outlets:** Features two AC 230V sockets and two DC 5V USB Type-A ports.
- **Fuel Tank Capacity:** 4-liter gasoline tank for extended operation.



Image 3.1: Visual representation of the AIVOLT generator's key features. Icons illustrate quiet technology, clean electricity, eco-mode, and lightweight design.

3.2 Control Panel

Familiarize yourself with the control panel components before operation:

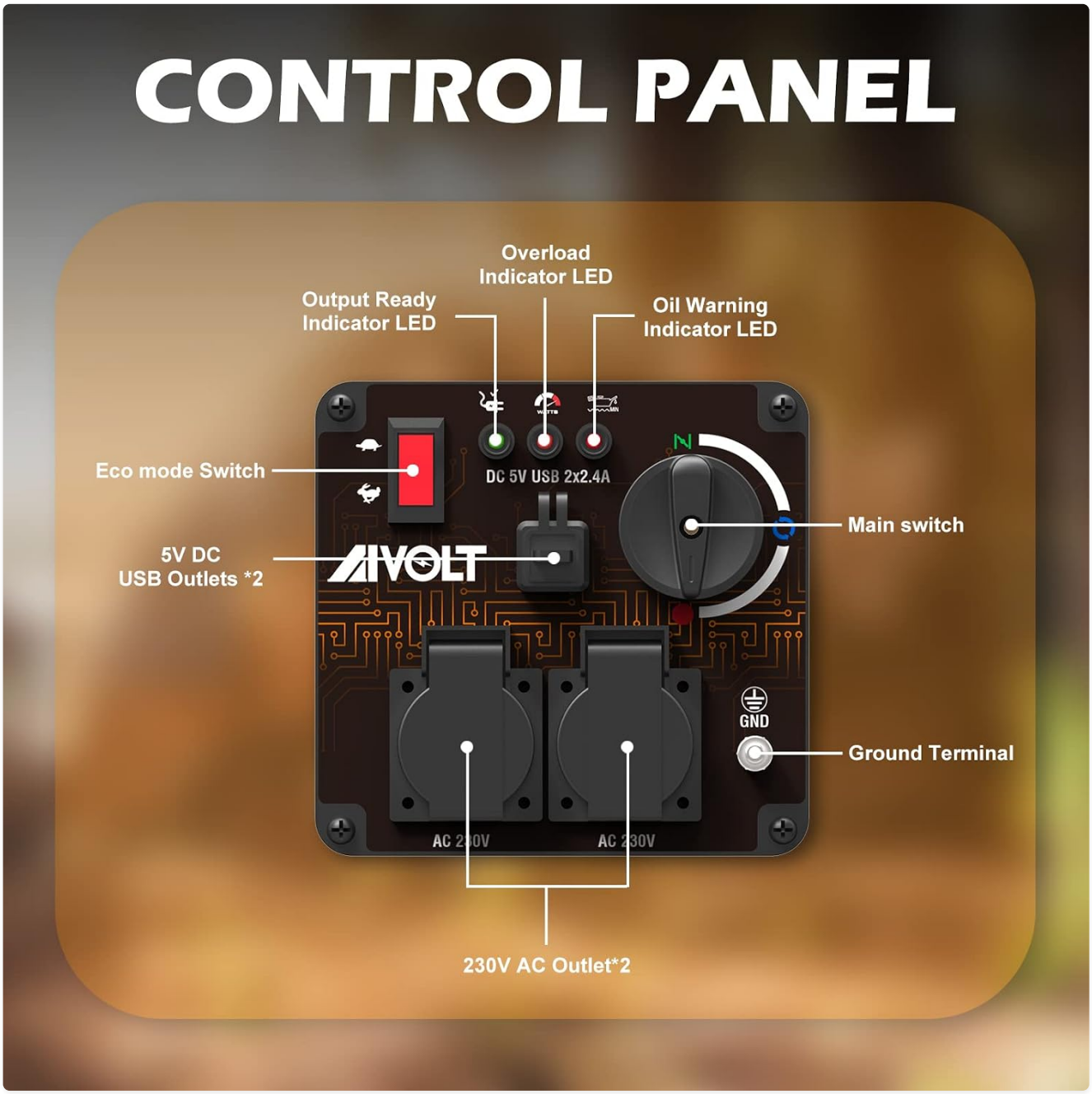


Image 3.2: Detailed diagram of the AIVOLT generator's control panel. It labels the Main Switch, Eco Mode Switch, 5V DC USB Outlets (x2), 230V AC Outlets (x2), Ground Terminal, Output Ready Indicator LED, Overload Indicator LED, and Oil Warning Indicator LED.

- **Main Switch:** Controls engine operation (OFF, START, RUN).
- **Eco Mode Switch:** Engages or disengages the fuel-saving Eco Mode.
- **5V DC USB Outlets (x2):** For charging USB-powered devices.
- **230V AC Outlets (x2):** For connecting AC-powered appliances.
- **Ground Terminal:** Point for connecting the generator to an earth ground.
- **Output Ready Indicator LED (Green):** Illuminates when the generator is producing stable power.
- **Overload Indicator LED (Red):** Illuminates when the generator is overloaded.
- **Oil Warning Indicator LED (Red):** Illuminates when engine oil level is low.

3.3 Included Accessories



Image 3.3: The AIVOLT generator shown with its included accessories: an instruction manual, an oil funnel, and a spark plug wrench.

Your AIVOLT generator comes with the following accessories:

- Instruction Manual
- Oil Funnel
- Spark Plug Wrench

4. Setup

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

1. **Add Engine Oil:** The generator is shipped without engine oil. Remove the side panel (typically secured by screws) to access the oil fill cap. Use the provided oil funnel to add the recommended type and amount of engine oil (refer to specifications for oil type and capacity). Do not overfill. Secure the side panel.
2. **Add Fuel:** Ensure the generator is on a level surface. Open the fuel cap and carefully pour fresh, unleaded gasoline into the fuel tank using a clean funnel. Do not overfill; leave space for fuel expansion. Secure the fuel

cap tightly.

3. **Grounding:** Connect a grounding wire (not included) from the generator's ground terminal to an appropriate earth ground rod. This is crucial for electrical safety.

5. Operating Instructions

5.1 Starting the Generator

1. Ensure the generator is on a level, outdoor surface, away from any combustible materials.
2. Verify oil and fuel levels are adequate.
3. Ensure no electrical devices are connected to the generator.
4. Turn the Main Switch to the 'START' position.
5. Pull the recoil starter handle firmly and smoothly until the engine starts. You may need to pull several times.
6. Once the engine starts, slowly move the Main Switch to the 'RUN' position.
7. Allow the generator to run for a few minutes to warm up. The green 'Output Ready' LED should illuminate, indicating stable power output.

5.2 Connecting Electrical Devices

Once the 'Output Ready' LED is illuminated:

- Plug your AC appliances into the 230V AC outlets.
- Plug your USB devices into the 5V DC USB Type-A ports.
- Do not exceed the generator's rated output wattage (800W running, 1900W starting). Overloading will trigger the 'Overload Indicator LED' and may cause the generator to shut down.



Image 5.1: The AIVOLT generator in an outdoor setting, actively powering a laptop and charging a smartphone, demonstrating its utility for portable power needs.

5.3 Using Eco Mode

The Eco Mode switch allows the generator to adjust engine speed based on the electrical load, reducing fuel consumption and noise. For light loads, switch Eco Mode ON. For heavy loads or when starting high-demand appliances, switch Eco Mode OFF for full power output.

5.4 Stopping the Generator

1. Disconnect all electrical devices from the generator.
2. Allow the generator to run for a few minutes without load to cool down.
3. Turn the Main Switch to the 'OFF' position.

6. Maintenance

Regular maintenance ensures the longevity and reliable operation of your generator.

6.1 Engine Oil

- **Initial Oil Change:** Change the engine oil after the first 5 hours of operation.
- **Subsequent Oil Changes:** Change the engine oil every 25 hours of operation or monthly, whichever comes first. After this, change oil every 100 hours or every six months.
- Always check the oil level before each use. If the 'Oil Warning Indicator LED' illuminates, stop the generator immediately and add oil.

6.2 Spark Plug

Inspect and clean the spark plug regularly. Replace if worn or fouled. Use the provided spark plug wrench for removal and installation.

6.3 Air Filter

Inspect the air filter periodically and clean or replace it if it is dirty or clogged. A dirty air filter can reduce engine performance and increase fuel consumption.

6.4 Storage

For long-term storage, drain the fuel tank and carburetor, or add a fuel stabilizer. Change the engine oil, clean the generator, and store it in a dry, well-ventilated area.

7. Troubleshooting

This section addresses common issues you might encounter with your generator.

Problem	Possible Cause	Solution
Engine does not start	No fuel Low oil level Main switch not in 'START' position Spark plug issue	Add fresh fuel Add engine oil Move main switch to 'START' Inspect/clean/replace spark plug
No power output (Green LED off)	Generator not warmed up Overload protection activated Faulty connection	Allow generator to run for a few minutes Reduce load, restart generator Check all connections
Overload Indicator LED (Red) illuminates	Connected devices exceed generator capacity	Disconnect some devices to reduce load. Restart generator.
Oil Warning Indicator LED (Red) illuminates	Engine oil level is low	Stop generator immediately and add engine oil.
Excessive noise or vibration	Loose components Generator on uneven surface	Check for and tighten any loose parts Place generator on a firm, level surface

8. Specifications

Detailed technical specifications for the AIVOLT 1900W Inverter Generator:

- **Brand:** AIVOLT
- **Model Name:** 1900W

- **Wattage (Starting):** 1900 Watts
- **Wattage (Running):** 800 Watts
- **Fuel Type:** Gasoline
- **Power Source:** Fuel Powered
- **Voltage:** 230 Volts
- **Tank Volume:** 4 Litres
- **Item Weight:** 19.7 Kilograms
- **Product Dimensions:** 43L x 39W x 24H Centimeters
- **Total Power Outlets:** 2 (AC 230V) + 2 (DC 5V USB Type-A)
- **Ignition System Type:** Electronic
- **Special Feature:** Portable, Silent Inverter Design
- **Recommended Uses:** Camping, Outdoor Use



Image 8.1: The AIVOLT generator with its key dimensions labeled: 43cm length, 39cm width, and 24cm height.

9. Warranty and Support

For warranty information and customer support, please refer to the documentation included with your purchase or

visit the official AIVOLT website. It is recommended to register your product if a registration process is available to ensure full warranty coverage. Please note that some users have reported issues with product registration on the manufacturer's website; if you encounter difficulties, contact customer support directly.

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