AIVOLT VS1400101

AIVOLT 3300W Inverter Generator VS1400101 User Manual

Model: VS1400101

1. Introduction

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your AIVOLT 3300W Inverter Generator, Model VS1400101. Please read this manual thoroughly before operating the generator to ensure proper use and to prevent injury or damage.

Key Features:

- **Pure Sine Wave Output:** Delivers stable, clean power (less than 3% THD) suitable for sensitive electronics like phones and laptops.
- **Efficient 4-Stroke Engine:** Equipped with a 149cc air-cooled engine, providing 3.3 kW peak and 3 kW continuous power.
- **Eco Mode:** Optimizes fuel consumption and extends run time up to 8 hours on a 4.2 L tank.
- **Multifunction Control Panel:** Features 2x 230V AC outlets, 2x USB ports (Type A and Type C), a 12V DC outlet, parallel connectivity, and a digital display.
- **Portable and Quiet:** Weighs only 23 kg with an ergonomic handle, operating at a low noise level of 61 dB at 25% load.



Figure 1: AIVOLT 3300W Inverter Generator, showcasing its compact and portable design with an orange and black casing.

2. Safety Information

WARNING: Improper use of a generator can lead to serious injury or death. Always follow safety guidelines.

2.1 Carbon Monoxide Hazard

- Generators produce carbon monoxide (CO), an odorless, colorless, poisonous gas.
- **NEVER** operate the generator indoors, in garages, sheds, or partially enclosed areas.
- Always operate the generator outdoors in a well-ventilated area, far from windows, doors, and vents.
- Install battery-operated carbon monoxide alarms in your home or RV.

2.2 Fire Hazard

- Fuel is highly flammable. Store fuel in approved containers in a well-ventilated area.
- **NEVER** refuel the generator while it is running or hot. Allow it to cool down completely.

- Do not overfill the fuel tank. Leave space for fuel expansion.
- Keep flammable materials away from the generator during operation.

2.3 Electrical Shock Hazard

- **NEVER** operate the generator in wet conditions or expose it to rain or snow.
- Ensure the generator is properly grounded before use.
- Do not connect the generator directly to your home's electrical system without a transfer switch installed by a qualified electrician.
- Use only approved extension cords that are rated for outdoor use and the load.

3. Product Overview

Familiarize yourself with the components of your AIVOLT inverter generator.

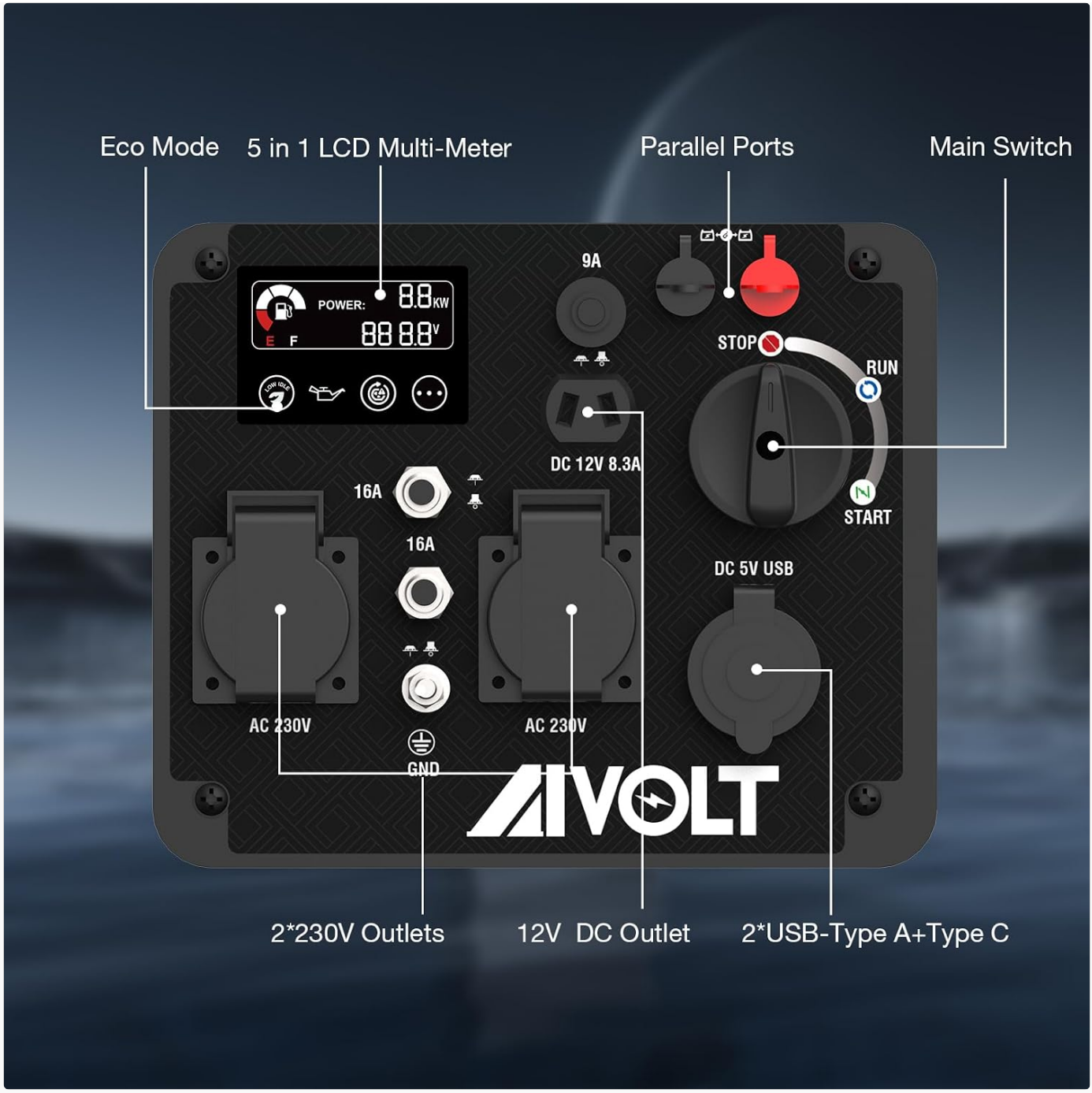


Figure 2: Close-up of the generator's control panel, showing the main switch, AC outlets, DC 12V output, USB-A and USB-C ports, parallel ports, and the 5-in-1 LCD multi-meter display.

Control Panel Components:

1. **5-in-1 LCD Multi-Meter:** Displays power output, voltage, frequency, run time, and fuel level.
2. **Eco Mode Switch:** Activates fuel-saving mode.
3. **Parallel Ports:** For connecting two generators for increased power.
4. **Main Switch:** Controls engine operation (STOP, RUN, START).
5. **AC 230V Outlets (x2):** Standard power outlets.
6. **DC 12V 8.3A Outlet:** For charging 12V batteries.
7. **USB 5V Outlets (Type A & Type C):** For charging sensitive electronic devices.
8. **Ground Terminal:** For connecting a ground wire.
9. **Overload Indicator:** Lights up if the generator is overloaded.
10. **Oil Warning Indicator:** Lights up when oil level is low.



Figure 3: This image illustrates the physical dimensions of the generator (500mm L x 310mm W x 430mm H) and displays the included accessories: a screwdriver/spark plug sleeve, a 12V DC battery charging cable, and an oil funnel.

4. Setup

4.1 Unpacking

Carefully remove the generator and all accessories from the packaging. Inspect for any shipping damage. Retain packaging for future storage or transport.

4.2 Adding Engine Oil

1. Place the generator on a level surface.
2. Remove the oil filler cap/dipstick.
3. Using the provided oil funnel, slowly add the recommended engine oil (e.g., SAE 10W-30) to the crankcase until it

reaches the upper mark on the dipstick. Do not overfill.
4. Securely replace the oil filler cap/dipstick.

4.3 Adding Fuel

1. Ensure the generator is turned off and cool.
2. Unscrew the fuel tank cap.
3. Carefully pour fresh, unleaded gasoline into the fuel tank. Do not fill above the red indicator line or the bottom of the filler neck.
4. Securely replace the fuel tank cap.

4.4 Grounding the Generator

For safety, always ground the generator before operation. Connect a heavy-gauge copper wire from the generator's ground terminal to a suitable ground source, such as a ground rod driven into the earth.

5. Operating Instructions

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 fuel cap vent lever to the 'ON' position.
4. Turn the main switch to the 'START' position.
5. Pull the recoil starter handle firmly and smoothly until the engine starts.
6. Once the engine starts, slowly return the main switch to the 'RUN' position.

5.2 Stopping the Engine

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 main switch to the 'STOP' position.
4. Turn the fuel cap vent lever to the 'OFF' position.

5.3 Using Eco Mode

Engage the Eco Mode switch to reduce engine speed when the electrical load is low. This conserves fuel, reduces noise, and extends engine life. The generator will automatically increase engine speed as the load increases.

5.4 Connecting Electrical Devices

Plug your appliances into the appropriate AC, DC, or USB outlets. Ensure the total wattage of connected devices does not exceed the generator's continuous power output (3 kW).



Figure 4: A detailed view of the USB Type-A and Type-C charging ports, highlighting the generator's capability to directly charge sensitive electronic devices.

5.5 Parallel Operation

For increased power output, two AIVOLT 3300W inverter generators can be connected in parallel using a compatible parallel kit (sold separately).

1. Ensure both generators are off and cool.
2. Connect the parallel cables between the designated parallel ports on both generators.
3. Start both generators according to the standard starting procedure.
4. Connect your high-demand appliances to the outlets on the parallel kit.



Figure 5: Two AIVOLT inverter generators linked together using parallel cables, demonstrating the capability to double the power output for higher demand applications.

6. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your generator.

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. Refer to the engine oil section in this manual for detailed instructions.

6.2 Air Filter Inspection and Cleaning

Inspect the air filter every 50 hours or more frequently in dusty conditions. Clean or replace the air filter as needed to ensure proper engine breathing.

6.3 Spark Plug Inspection

Inspect the spark plug every 100 hours. Clean or replace it if it is fouled or worn. Use only the recommended spark plug type.

6.4 Storage

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

7. Troubleshooting

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

Problem	Possible Cause	Solution
Engine will not start	No fuel Low oil level Main switch in wrong position Spark plug issue	Add fuel Add oil Turn main switch to 'START' Inspect/clean/replace spark plug
No power output	Overload Circuit breaker tripped Eco Mode engaged with high load	Reduce load, reset generator Reset circuit breaker Disengage Eco Mode for high loads
Engine runs rough	Stale fuel Dirty air filter Spark plug issue	Drain and replace fuel Clean/replace air filter Inspect/clean/replace spark plug

8. Specifications

Specification	Value
Brand	AIVOLT
Model Number	VS1400101
Power Output (Peak)	3300 Watts
Power Output (Continuous)	3000 Watts
Voltage	230 Volts
Engine Displacement	149 cc
Fuel Type	Gasoline
Fuel Tank Capacity	4.2 Liters
Noise Level (25% Load)	61 Decibels

Specification	Value
Product Dimensions (L x W x H)	50 x 31 x 43 cm
Item Weight	23 Kilograms
Special Features	Portable, Super Silent

9. Warranty and Support

AIVOLT offers an additional long-term 2-year warranty for this product. Free lifetime technical support from experts is also provided.
For warranty claims, technical assistance, or spare parts inquiries, please contact AIVOLT customer service through your purchase platform or the official AIVOLT website.

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