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AIVOLT VS1600101

AIVOLT Inverter Generator 1200W

Model: VS1600101

1. Introduction

Thank you for choosing the AIVOLT 1200W Inverter Generator. This portable and lightweight generator is designed to provide stable, high-quality power for a wide range of applications, from sensitive electronics to outdoor activities and emergency backup. Featuring pure sine wave output, quiet operation, and an eco-mode for fuel efficiency, it offers reliable performance. This manual provides important information for safe and effective use, maintenance, and troubleshooting.



Figure 1.1: AIVOLT 1200W Inverter Generator, front view.

This image displays the compact and portable design of the AIVOLT 1200W Inverter Generator, highlighting its main body and control panel.

2. Safety Information

WARNING: Failure to follow these safety instructions could result in serious injury or death.

- **Carbon Monoxide Hazard:** Generators produce carbon monoxide, an odorless, colorless, poisonous gas. Operate generators outdoors only, far away from windows, doors, and vents. Never operate indoors or in enclosed spaces.
- **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. Store fuel in approved containers.
- **Electrical Shock Hazard:** Do not operate the generator in wet conditions. Ensure all electrical connections are dry and secure. Never connect the generator directly to your home's electrical system without a proper transfer switch installed by a qualified electrician.
- **Hot Surfaces:** The generator's engine and muffler become very hot during operation and remain hot for some time

after shutdown. Avoid contact with hot surfaces.

- **Children and Pets:** Keep children and pets away from the generator at all times.

3. Product Overview

Familiarize yourself with the components and controls of your AIVOLT inverter generator.



Figure 3.1: Main Control Panel and Ports.

This image provides a detailed view of the generator's control panel, showing the various switches, indicators, and output ports.

Key Components:

- **Fuel Tank Cap:** For adding gasoline. Capacity: 2.5 L.
- **Engine Switch:** Controls engine operation (ON/OFF).
- **Eco-Mode Switch:** Activates fuel-saving mode.
- **AC 100V Output Ports:** Standard household outlets (x2).

- **USB Output Ports:** 5V, 1.0A / 2.1A (x2) for charging small devices.
- **DC Output Port:** 12V for battery charging (cigarette lighter type).
- **Frequency Switch:** Allows switching between 50Hz and 60Hz.
- **Output Indicator:** Green light indicates power output.
- **Overload Warning Indicator:** Red light indicates an overload condition.
- **Oil Warning Indicator:** Red light indicates low engine oil level.
- **Recoil Starter:** Manual pull-start mechanism.
- **Choke Lever:** Assists in cold starting.

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. Add 0.35L of SAE 10W-30 engine oil to the crankcase. Do not overfill.
2. **Add Fuel:** Fill the fuel tank with fresh, unleaded gasoline. The tank capacity is 2.5L. Do not overfill and ensure the fuel cap is securely tightened.
3. **Check Air Filter:** Ensure the air filter is clean and properly installed.



Figure 4.1: Initial Setup and Starting Procedure.

This graphic illustrates the step-by-step process for adding oil and fuel, and the sequence for starting the generator.

5. Operating Instructions

5.1 Starting the Engine

1. Ensure the generator is on a level surface and away from any flammable materials.

2. Turn the fuel switch to the **ON** position.
3. Move the choke lever to the **START** (closed) position for cold starts. For warm starts, the choke may not be necessary.
4. Turn the engine switch to the **ON** position.
5. Firmly pull the recoil starter handle until the engine starts. Do not let the rope snap back.
6. Once the engine starts, gradually move the choke lever to the **RUN** (open) position.
7. Allow the engine to warm up for a few minutes before connecting electrical loads.

5.2 Connecting Electrical Loads

- Ensure the total wattage of connected devices does not exceed the generator's rated output (1100W continuous, 1200W peak).
- Plug your devices into the AC 100V, USB, or DC 12V outlets as needed.
- For sensitive electronics, ensure the Eco-Mode is engaged for stable power output.

5.3 Eco-Mode Operation

The Eco-Mode switch allows the generator to adjust engine speed based on the load, improving fuel efficiency and reducing noise. When the Eco-Mode switch is ON, the engine speed will decrease when the load is light, and increase when the load is heavy. For maximum power output, turn the Eco-Mode switch OFF.

5.4 Frequency Switching (50Hz/60Hz)

The generator is equipped with a frequency switch to select between 50Hz and 60Hz. Adjust this switch according to the frequency requirements of your electrical devices and region. Ensure the generator is not under load when changing the frequency.



Figure 5.1: Detailed view of the control panel with labeled functions.

This image highlights the Eco-Mode switch, LED indicators, and frequency switch, providing visual guidance for operation.

5.5 Stopping the Engine

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

6. Maintenance

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

6.1 Engine Oil Check and Change

- Check the engine oil level before each use. If the oil warning indicator illuminates during operation, the engine will automatically shut down to prevent damage.
- Change the engine oil after the first 20 hours of operation, and then every 50 hours or every 6 months, whichever comes first.



Figure 6.1: Location for adding engine oil.

This image shows the access point for checking and adding engine oil, crucial for generator longevity.

6.2 Spark Plug Inspection

- Inspect the spark plug every 100 hours or annually. Clean or replace if necessary. A spark plug sleeve is included for easy removal and installation.



Figure 6.2: Accessing the spark plug.

This image demonstrates how to access the spark plug for inspection and maintenance.

6.3 Air Filter Cleaning

- Clean the air filter every 50 hours or every 3 months, more frequently in dusty conditions. Wash with warm, soapy water, rinse, and allow to dry completely before reinstallation.

6.4 Storage

- For long-term storage, drain the fuel tank and carburetor. Run the engine until it stops from lack of fuel.
- Change the engine oil.
- Store the generator 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 does not start	No fuel Low engine oil Engine switch OFF Choke not set correctly Spark plug issue	Add fresh gasoline Add engine oil Turn engine switch ON Adjust choke lever Inspect/clean/replace spark plug
No power output	Overload Circuit breaker tripped Eco-Mode ON with high load	Reduce load, reset overload protection Reset circuit breaker Turn Eco-Mode OFF for full power
Engine runs, then stops	Low engine oil Lack of fuel Overload	Add engine oil Add fresh gasoline Reduce load, reset overload protection
Excessive noise	Eco-Mode OFF Loose components	Turn Eco-Mode ON for quieter operation Check and tighten any loose parts

8. Specifications

Specification	Value
Brand	AIVOLT
Model Number	VS1600101
Rated Output	1.1 kVA (1100W)
Max Output	1.2 kVA (1200W)
Voltage	100V
Frequency	50Hz / 60Hz (Switchable)
Engine Type	Air-cooled 4-stroke OHV

Specification	Value
Fuel Type	Gasoline
Fuel Tank Capacity	2.5 L
Engine Oil Capacity	0.35 L
Dry Weight	12 kg
Dimensions (L x W x H)	46.51 x 28.5 x 43.99 cm
Noise Level (25% load at 7m)	60 dB(A)
Safety Features	Overload Protection, Oil Warning System, Overheat Protection
Included Accessories	Instruction Manual, Quick Start Guide, Spark Plug Sleeve, Funnel, Screwdriver, 12V DC Cable

9. Warranty and Support

AIVOLT stands behind the quality of its products. Your AIVOLT Inverter Generator comes with a **2-year manufacturer's warranty** from the date of purchase. During this period, any product malfunctions or defects will be addressed free of charge.

Customer Support:

For any questions, concerns, or warranty claims, please contact our customer support team. We offer 24/7 support to assist you.

- **Email:** aivolt.official@gmail.com
- **Via Amazon:** You can also contact us through your Amazon order details. Navigate to 'Your Orders', find the product, and select 'Ask Product Question' or 'Contact Seller'.



Figure 9.1: AIVOLT Warranty and Support Details.

This image confirms the warranty period and provides contact information for customer support.

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