

Aceup Energy AI4000s-DE-1

Aceup Energy 3400W Inverter Generator Instruction Manual

Model: AI4000s-DE-1

1. INTRODUCTION

Thank you for choosing the Aceup Energy 3400W Inverter Generator. This manual provides essential information for the safe operation, maintenance, and troubleshooting of your generator. Please read this manual thoroughly before operating the unit to ensure proper use and to prevent injury or damage.

This inverter generator is designed to provide clean, stable power for various applications, including camping, outdoor events, job sites, and as a backup power source for your home. It features a 4-stroke OHV engine, digital display, and multiple output ports for versatility.

2. IMPORTANT SAFETY INSTRUCTIONS

Failure to follow these safety instructions can result in serious injury or death. Always operate the generator responsibly.

- **Carbon Monoxide Hazard:** Generators produce carbon monoxide, a colorless, odorless, poisonous gas. Operate the generator outdoors only, far away from windows, doors, and vents. Never operate indoors or in partially 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 an approved container.
- **Electrical Shock Hazard:** Do not operate the generator in wet conditions. Ensure all electrical connections are dry and secure. Never touch electrical components 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 use to prevent electrical shock.

3. COMPONENTS OVERVIEW

Familiarize yourself with the main components of your Aceup Energy Inverter Generator.



Figure 3.1: Control Panel. This image shows the generator's control panel, featuring the main switch, choke, Eco mode switch, digital display meter, AC outlets (230V), DC 12V outlet, USB Type A/C ports, and grounding terminal.

DIMENSION

50.7 lbs



Figure 3.2: Generator and Accessories. The generator is shown alongside its included accessories: a spark plug wrench, oil funnel, and oil drain tube.

4. INITIAL SETUP

Before starting your generator for the first time, perform the following steps:

1. Add Engine Oil:

- Place the generator on a level surface.
- Remove the oil fill cap/dipstick.
- Using the provided funnel, slowly add 4-stroke engine oil (SAE 10W-30 recommended) until it reaches the upper mark on the dipstick. Do not overfill.
- Securely replace the oil fill cap/dipstick.



Figure 4.1: Oil Level Check and Funnel. Ensure oil is at the correct level using the dipstick and use the funnel for clean filling.

2. Add Fuel:

- Ensure the generator is off and cool.
- Unscrew the fuel cap.
- Carefully pour fresh, unleaded gasoline (minimum 87 octane) into the fuel tank. Do not overfill. Leave space for fuel expansion.
- Securely replace the fuel cap.



Figure 4.2: Fuel Cap. The fuel cap must be securely tightened after refueling.

3. **Positioning:** Place the generator on a firm, level surface outdoors, at least 5 feet (1.5 meters) away from any buildings or other equipment. Ensure adequate ventilation.

5. OPERATING INSTRUCTIONS

5.1. Starting the Generator

Follow these steps to start your generator:

Come avviare il motore



Figure 5.1: How to Start the Engine. This diagram illustrates the step-by-step process for starting the generator, including adding oil and fuel, setting the fuel valve, choke, and pulling the recoil starter.

1. **Open Fuel Tank Vent:** Turn the fuel tank vent knob on the fuel cap to the "ON" or "OPEN" position.
2. **Turn Fuel Valve ON:** Rotate the fuel valve lever to the "ON" position.
3. **Set Choke:** If starting a cold engine, move the choke lever to the "CHOKE" position. For a warm engine, set it to "RUN".
4. **Main Switch:** Turn the main engine switch to the "ON" position.
5. **Pull Recoil Starter:** Firmly pull the recoil starter handle until the engine starts.
6. **Adjust Choke:** Once the engine starts, slowly move the choke lever to the "RUN" position.
7. **Eco Mode (Optional):** If desired, switch the Eco mode to "ON" for fuel efficiency when power demand is low.

5.2. Connecting Electrical Devices

Once the generator is running stably, you can connect your electrical devices.

- Ensure the total wattage of connected devices does not exceed the generator's running wattage (3200W).
- Plug devices into the appropriate outlets (230V AC, 12V DC, or 5V USB).
- The digital display will show output voltage, frequency, and running hours.



Figure 5.2: Digital Display and Power Examples. The digital display provides real-time operational data, while the power consumption

chart helps manage load.

5.3. Stopping the Generator

To safely shut down the generator:

1. Disconnect all electrical loads from the generator.
2. Turn the main engine switch to the "OFF" position.
3. Turn the fuel valve lever to the "OFF" position.
4. Turn the fuel tank vent knob on the fuel cap to the "OFF" or "CLOSED" position.

6. MAINTENANCE

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

- **Oil Change:** Change the engine oil after the first 20 hours of operation, then every 50-100 hours or annually. Refer to Figure 6.1 for the oil change process.



Figure 6.1: Oil Change. Use the provided drain tube to facilitate a clean oil change.

- **Air Filter Cleaning:** Inspect and clean the air filter every 50 hours or more frequently in dusty conditions. Refer to Figure 6.2.



Figure 6.2: Air Filter. Regularly clean or replace the air filter to maintain engine performance.

- **Spark Plug Inspection:** Inspect the spark plug every 100 hours or annually. Clean or replace as needed. Refer to Figure 6.3.



Figure 6.3: Spark Plug. Access the spark plug for inspection and replacement.

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

7. TROUBLESHOOTING

This section provides solutions to common operational issues.

Problem	Possible Cause	Solution
Engine will not start	No fuel, low oil, choke incorrect, spark plug issue, main switch off	Add fuel, add oil, adjust choke, check/clean spark plug, turn main switch ON
No power output	Overload, circuit breaker tripped, Eco mode on with high load	Reduce load, reset circuit breaker, turn Eco mode off for high loads
Engine runs rough	Stale fuel, dirty air filter, dirty spark plug	Use fresh fuel, clean/replace air filter, clean/replace spark plug
Oil indicator light on	Low engine oil level	Check oil level and add oil if necessary

8. TECHNICAL SPECIFICATIONS

Detailed specifications for the Aceup Energy 3400W Inverter Generator.

Specification	Value
Model Number	AI4000s-DE-1
Starting Power	3400 Watts
Running Power	3200 Watts
Engine Type	4-stroke Internal Combustion Engine
Engine Displacement	223 Cubic Centimeters
Fuel Type	Gasoline
Fuel Tank Volume	5 Liters
Run Time (at 50% load)	Up to 8 hours
Voltage	230 Volts (AC)
Frequency	50 Hz
Total Electrical Outlets	5 (2x 230V AC, 1x 12V DC 8.3A, 2x 5V USB Type A/C)
Ignition System Type	Recoil Starter

Specification	Value
Product Dimensions (L x W x H)	50.4 x 30.2 x 45 cm
Item Weight	23 Kilograms
Material Type	Iron, Cast Iron, Aluminum, Plastic
Special Features	Digital Display, Lightweight, USB Port, Portable, Comfortable Grip



Figure 8.1: Product Dimensions. The image displays the generator's length (19.6 in), width (11.8 in), and height (17.7 in), along with its weight (50.7 lbs).

9. WARRANTY AND SUPPORT

9.1. Warranty Information

Aceup Energy products are manufactured to high-quality standards and are backed by a manufacturer's warranty. Please refer to the warranty card included with your product for specific terms and conditions. Keep your proof of purchase for warranty claims.

9.2. Customer Support

For technical assistance, parts, or service, please contact Aceup Energy customer support. Contact details can typically be found on the product packaging or the official Aceup Energy website. When contacting support, please have your model number (AI4000s-DE-1) and serial number ready.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question