

A-iPower SUA4300iD

A-iPower SUA4300iD 4300-Watt Dual Fuel Portable Inverter Generator Instruction Manual

Model: SUA4300iD

1. INTRODUCTION

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your A-iPower SUA4300iD Dual Fuel Portable Inverter Generator. Please read this manual thoroughly before operating the generator to ensure proper use and to prevent injury or damage.

The A-iPower SUA4300iD is a versatile inverter generator designed for various applications, offering both gasoline and propane fuel options. It features a 149cc OHV 4-cycle engine, providing 4300 starting watts and 3450 running watts on gasoline, and 3900 starting watts and 3100 running watts on propane. Its inverter technology delivers clean power suitable for sensitive electronics.



Image 1.1: The A-iPower SUA4300iD Dual Fuel Portable Inverter Generator, showcasing its compact design and control panel.

2. SAFETY INFORMATION

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

- **Carbon Monoxide Hazard:** Generators produce carbon monoxide (CO), an odorless, colorless gas that can kill you. Operate the generator outdoors in a well-ventilated area, far from windows, doors, and vents. Never operate it inside a home, garage, basement, crawl space, or other enclosed area.
- **Fire Hazard:** Fuel is highly flammable. Do not refuel while the engine is running or hot. Store fuel in approved containers in a well-ventilated area away from ignition sources.
- **Electrical Shock Hazard:** Do not operate the generator in wet conditions. Ensure all electrical connections are secure and dry. Never connect the generator directly to a building's electrical system without a 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 to prevent burns.
- **CO Sensor:** This generator is equipped with a CO sensor that will automatically shut down the engine if dangerous levels of carbon monoxide are detected. Do not disable or bypass this safety

feature.

3. COMPONENTS AND CONTROLS

Familiarize yourself with the various components and controls of your generator.

3.1 Control Panel

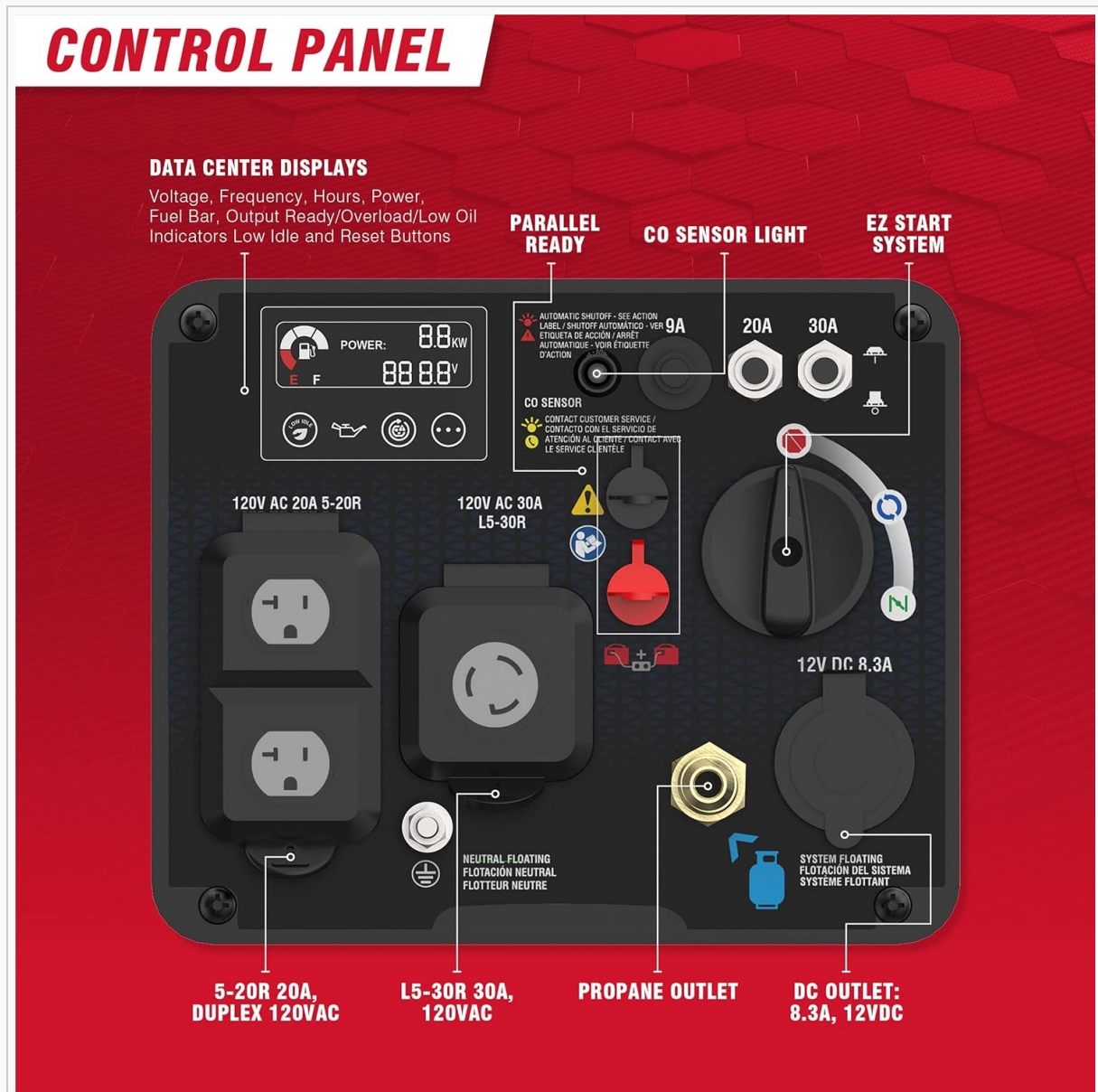


Image 3.1: Detailed view of the generator's control panel, highlighting various outlets and indicators.

- **Data Center Display:** Shows voltage, frequency, hours, power output, and indicators for output ready, overload, and low oil.
- **CO Sensor Indicator Light:** Illuminates when carbon monoxide levels are detected, triggering an automatic shutdown.
- **LED Light:** Provides illumination for the control panel in low-light conditions.
- **Outlets:**
 - 1x 8.3A 12V DC outlet
 - 1x L5-30R 30A 120V outlet (RV Ready)
 - 1x Duplex 5-20R 20A 120V outlets
- **Fuel Selector Switch:** For choosing between gasoline and propane operation.

- **Propane Inlet:** Connection point for the LPG hose.
- **Parallel Ports:** Allows connection of two compatible A-iPower inverter generators for increased power output.

3.2 Included Components



Image 3.2: Visual representation of items included with the generator, such as oil, funnel, and cables.

The generator package includes:

- Owner's Manual/Quick Start Guide
- Engine Oil and Funnel
- 30A RV Adaptor
- 12V DC Charging Cables
- LPG Hose with Regulator
- Tool Kit

Note: Parallel cables are sold separately.

4. SETUP

Before first use, proper setup is crucial for safe and efficient operation.

4.1 Add Engine Oil

1. Place the generator on a level surface.
2. Remove the oil fill cap/dipstick.
3. Using the provided funnel, carefully add the recommended engine oil (SAE 10W-30 is typically suitable for general use) until it reaches the upper mark on the dipstick. Do not overfill.
4. Securely replace the oil fill cap/dipstick.

4.2 Add Fuel

This generator operates on either gasoline or propane (LPG).

For Gasoline Operation:

1. Ensure the engine is off and cool.
2. Open the fuel tank cap.
3. Fill the fuel tank with fresh, unleaded gasoline (minimum 87 octane) up to the fill neck, but do not overfill. The tank capacity is 1.6 gallons.
4. Securely close the fuel tank cap.

For Propane (LPG) Operation:

1. Ensure the engine is off and cool.
2. Connect the provided LPG hose and regulator to a standard propane tank.
3. Connect the other end of the LPG hose to the propane inlet on the generator's control panel.
4. Ensure all connections are tight to prevent leaks.



Image 4.1: The generator connected to a propane tank, illustrating a dual-fuel setup.

5. OPERATING INSTRUCTIONS


Follow these steps to start and operate your generator safely.

5.1 Starting the Generator

1. Ensure the generator is on a level surface and in a well-ventilated outdoor area.
2. Check engine oil level and fuel level.
3. Turn the fuel selector switch to the desired fuel source (Gasoline or Propane).
4. If using propane, slowly open the valve on the propane tank.
5. Turn the engine switch to the 'START' position.
6. Pull the recoil starter handle firmly until the engine starts.
7. Once the engine starts, slowly move the engine switch to the 'RUN' position.
8. Allow the generator to run for a few minutes to warm up before connecting electrical loads.

5.2 Fuel Sense Technology


DUAL FUEL



WHAT IS FUEL SENSE?

This generator is equipped with **FUEL SENSE** technology which automatically switches fuel intake between gasoline and propane/LPG to extend runtime. Propane is a prioritized fuel which means the generator will use propane as soon as the **Propane Cylinder Valve** is opened. The generator will use gasoline if there is not enough propane remaining in the cylinder OR if the **Propane Cylinder Valve** is closed.

4300	3450	3900	3100
STARTING WATTS	RUNNING WATTS	STARTING WATTS	RUNNING WATTS
GASOLINE		PROPANE	



26 HOURS

COMBINED RUN TIME @25% Load

Image 5.1: Diagram explaining A-iPower's Fuel Sense Technology and power output for each fuel type.

The SUA4300iD features Fuel Sense Technology, which automatically switches between gasoline and propane/LPG to extend runtime. Propane is the prioritized fuel. The generator will use propane as soon as the Propane Cylinder Valve is opened. It will switch to gasoline if there is not enough propane remaining in

the cylinder or if the Propane Cylinder Valve is closed.

5.3 Connecting Electrical Loads

1. Ensure the generator is running smoothly.
2. Plug in your electrical devices to the appropriate outlets.
3. Do not overload the generator. Monitor the data center display for power output and overload indicators.

5.4 Parallel Operation

This inverter generator is parallel equipped, allowing you to connect two compatible A-iPower inverter generators for increased power output. Refer to the parallel kit's instruction manual for detailed connection and operation procedures.

5.5 Shutting Down the Generator

1. Disconnect all electrical loads from the generator.
2. If operating on propane, close the valve on the propane tank. Allow the generator to run until it consumes the remaining fuel in the line and shuts off.
3. If operating on gasoline, turn the engine switch to the 'OFF' position.
4. Allow the generator to cool down completely before storing.

6. MAINTENANCE

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

6.1 Engine Oil

- Check oil level before each use.
- Change oil after the first 20 hours of operation, then every 100 hours or annually, whichever comes first.

6.2 Air Filter

- Inspect the air filter every 50 hours or every 3 months.
- Clean or replace if dirty.

6.3 Spark Plug

- Inspect the spark plug every 100 hours or every 6 months.
- Clean or replace if necessary. Ensure proper gap.

6.4 Fuel System

- For gasoline, use a fuel stabilizer if storing for more than 30 days.
- Drain the carburetor and fuel tank if storing for extended periods without stabilizer.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Engine will not start	No fuel, low oil, spark plug issue, engine switch off, choke position incorrect	Add fuel, check oil level, inspect/clean spark plug, turn engine switch to 'ON', adjust choke
No power output	Overload, circuit breaker tripped, loose connections	Reduce load, reset circuit breaker, check connections
CO Sensor shutdown	High carbon monoxide levels detected	Move generator to a more open, well-ventilated area. Allow to cool before restarting.
Engine runs rough	Stale fuel, dirty air filter, spark plug issue	Use fresh fuel, clean/replace air filter, inspect/clean spark plug

For more detailed troubleshooting, refer to the complete owner's manual or contact customer support.

8. SPECIFICATIONS

Feature	Specification
Model Name	SUA4300iD
Brand	A-iPower
Engine Type	149cc OHV 4-Stroke
Starting Wattage (Gasoline)	4300 Watts
Running Wattage (Gasoline)	3450 Watts
Starting Wattage (Propane)	3900 Watts
Running Wattage (Propane)	3100 Watts
Fuel Type	Gasoline, Propane
Tank Volume (Gasoline)	1.6 Gallons
Voltage	120 Volts
Total Power Outlets	3 (1x 12V DC, 1x L5-30R 120V, 1x Duplex 5-20R 120V)
Item Weight	54.8 Pounds
Product Dimensions (L x W x H)	22" x 14.4" x 20.3"
Special Feature	Portable, Dual Fuel, Inverter, CO Sensor, Parallel Ready
Certifications	EPA, PGMA & CARB Compliant

9. WARRANTY AND SUPPORT

9.1 Warranty Information







The A-iPower SUA4300iD Inverter Generator comes with a **3 Year Limited Manufacturer's Warranty**. Please retain your proof of purchase for warranty claims. Refer to the full warranty statement in the included owner's manual for complete terms and conditions.

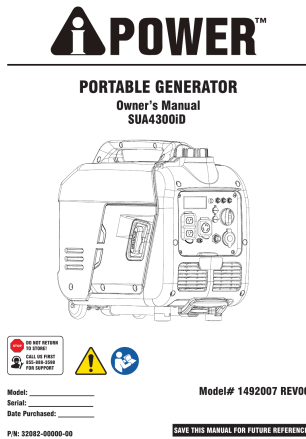
9.2 Customer Support

For any assistance, questions, or concerns regarding your A-iPower generator, please feel free to contact A-iPower customer support. Contact information can typically be found in your owner's manual or on the official A-iPower website.

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Related Documents - SUA4300iD

	A-iPower SUA5800iED Dual Fuel Inverter Generator: Features, Specs. and Technology Detailed overview of the A-iPower SUA5800iED Dual Fuel Inverter Generator, including key features, technical specifications, control panel functions, and Fuel Sense technology. Learn about its 5800 starting watts, 224cc engine, and extended runtime capabilities.
	A-iPower SUA2000iD 2000 Watt Dual Fuel Inverter Generator Specifications and Features Detailed specifications and features for the A-iPower SUA2000iD 2000 Watt Dual Fuel Inverter Generator, including power output, fuel types, run time, noise level, and technical data.
	A-iPower XOS2300iD 2300 Watt Dual Fuel Inverter Generator Specifications and features for the A-iPower XOS2300iD, a 2300 Watt Dual Fuel Inverter Generator with Fuel Sense Technology, EPA certified, lightweight design, and clean power output.
	A-iPower GXS4300iDC Generator Quick Start Guide - Model 1491001 Concise quick start guide for the A-iPower GXS4300iDC dual fuel inverter generator. Learn how to unpack, add fuel and oil, start the engine, shut down, store, and switch between gasoline and propane (LPG). Includes essential safety warnings regarding carbon monoxide.
	A-iPOWER SUA2300i 2300 Watt Inverter Generator: Features, Specs. and Overview Detailed overview of the A-iPOWER SUA2300i 2300 Watt Inverter Generator, including key features, technical specifications, outlet types, parallel operation capabilities, and included accessories. Learn about its powerful 80cc engine, clean power output (<3% THD), and quiet operation.
	A-iPower GXS4300iDC Generator Quick Start Guide A quick start guide for the A-iPower GXS4300iDC Generator, covering unpacking, adding fuel and lubricant, starting, shutdown, storage, and changing fuels between gasoline and propane/LPG.



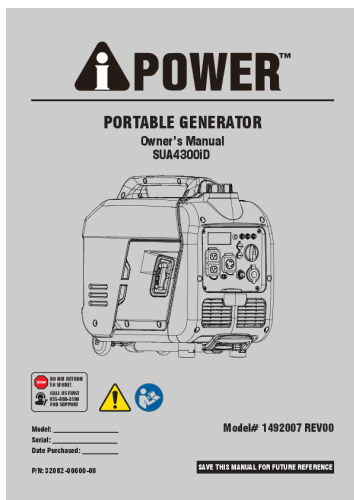
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