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› [A-iPower SUA2301i Portable Inverter Generator User Manual](#)

## A-iPower SUA2301i

# A-iPower SUA2301i Portable Inverter Generator User Manual

Model: SUA2301i | Brand: A-iPower

## INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your A-iPower SUA2301i Portable Inverter Generator. Please read this manual thoroughly before operating the generator to ensure proper use and to prevent injury or damage.

## IMPORTANT SAFETY INFORMATION

**WARNING: Carbon Monoxide Hazard. Using a generator indoors WILL KILL YOU IN MINUTES. Generator exhaust contains carbon monoxide, a poison gas you cannot see or smell. NEVER use in a home or in partly enclosed areas such as garages. Only use OUTSIDE and far from open windows, doors, and vents.**

- Always operate the generator in a well-ventilated outdoor area.
- Ensure proper grounding to prevent electric shock.
- Do not expose the generator to rain or wet conditions.
- Check for fuel overflow or leakage before starting.
- Equipped with a CO sensor with auto shutdown technology for enhanced safety.

## SETUP AND FIRST USE

### Unpacking and Included Components

Carefully remove all components from the packaging. Verify that all items are present:

- Generator Unit (SUA2301i)
- Manual/Quick Start Guide
- Funnel
- Engine Oil (10W-30)
- 12VDC Charging Cables
- 30A RV Adaptor
- Tool Kit
- Parallel Cables (included for parallel operation)

# CONTROL PANEL

## DATA CENTER DISPLAYS

Voltage, Frequency, Hours, Power, Fuel Bar, Output Ready/Overload/Low Oil Indicators Low Idle and Reset Buttons

## CO SENSOR LIGHT

## PARALLEL READY

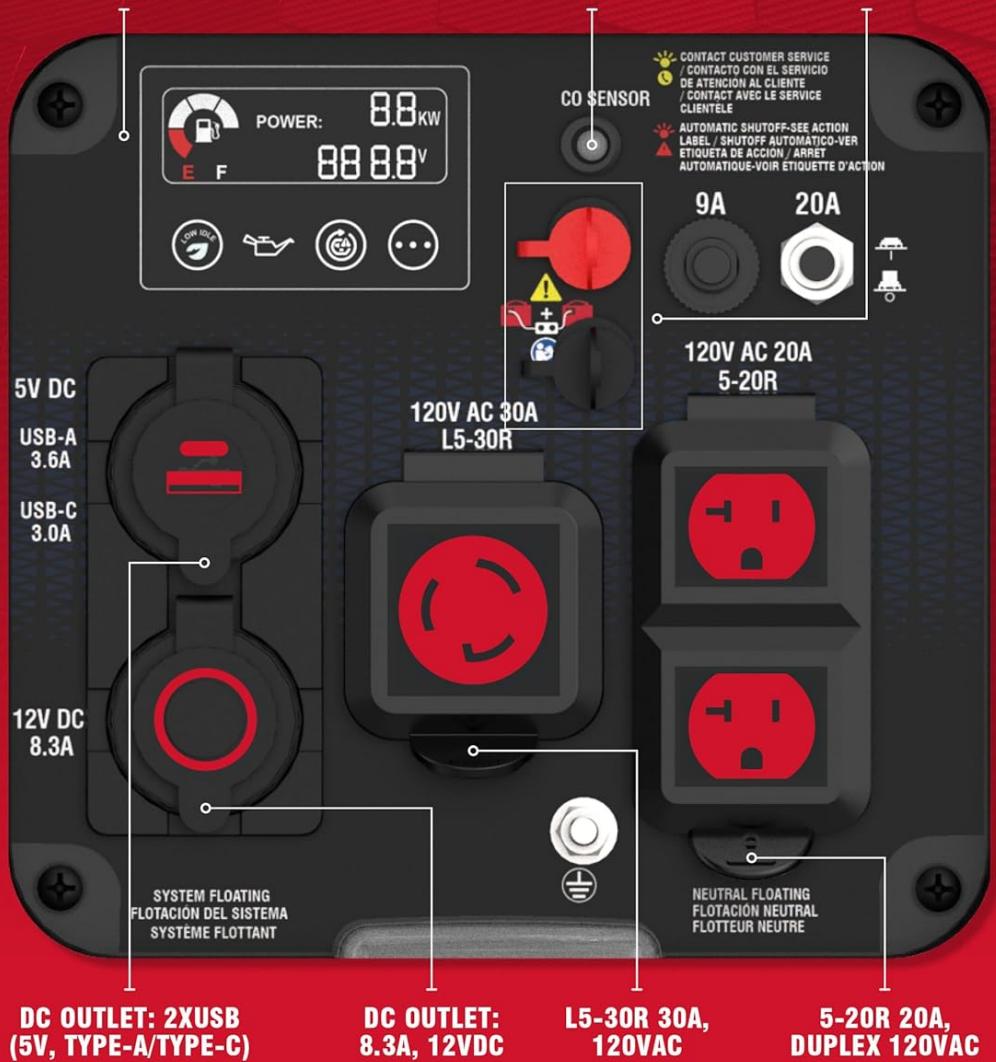


Figure 1: Included components with the SUA2301i generator, including oil, funnel, cables, and tools.

## Adding Engine Oil

Before first use, add the provided 10W-30 engine oil to the generator's crankcase. Refer to the oil fill cap for the correct level. Do not overfill.

## Adding Fuel

This generator operates on gasoline. Fill the 0.9-gallon fuel tank with fresh, unleaded gasoline. Ensure the fuel cap is securely tightened after filling.



Figure 2: Top view of the SUA2301i generator showing the fuel cap.

## OPERATING INSTRUCTIONS

### Control Panel Overview

The multi-featured control panel provides all necessary controls and indicators for operation.

# CONTROL PANEL LED LIGHT



## CONTROL PANEL LED LIGHT

Easily navigate your control panel in all lighting conditions

Figure 3: Detailed view of the SUA230i control panel, highlighting various outlets and indicators.

- **CO Sensor Indicator Light:** Alerts to dangerous levels of carbon monoxide.
- **LED Light:** Illuminates the control panel for visibility in low light.
- **Data Center Display:** Shows Voltage, Hours, Frequency, Power, and Fuel level.
- **Outlets:**
  - 1x L5-30R 30A 120V
  - 1x Duplex 5-20R 20A 120V
  - 1x 8.3A 12VDC
  - 1x USB-A 3.6A
  - 1x USB-C 3.0A
- **Output Indicator:** Shows when power is being generated.
- **Overload Alarm:** Indicates when the generator is overloaded.
- **Low Oil Alert:** Warns of low engine oil levels.

- **Low Idle Mode (Eco Mode):** Reduces engine speed to conserve fuel and lower noise when power demand is low.

## Starting the Generator

1. Ensure the generator is on a level surface outdoors, away from windows and doors.
2. Turn the fuel valve to the "ON" position.
3. Turn the main switch to the "ON" position.
4. For electric start, press and hold the "ENGINE START/STOP" button until the engine starts.
5. For manual recoil start, pull the recoil cord firmly until the engine starts.
6. Allow the generator to warm up for a few minutes before connecting electrical loads.

Your browser does not support the video tag.

Video 1: Official A-iPower video demonstrating the features and operation of the SUA2301i 2300 Watt Inverter Generator.

## Connecting Electrical Loads

- Connect your devices to the appropriate outlets on the control panel.
- Do not exceed the running wattage of 1800W or the starting wattage of 2300W.
- For sensitive electronics, the inverter technology provides clean power with less than 3% Total Harmonic Distortion (THD).

## Parallel Operation

The SUA2301i is parallel equipped, allowing you to connect two identical generators for increased power output. Use the provided parallel cables and follow the instructions in the separate parallel kit manual for safe connection.

## MAINTENANCE

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

- **Engine Oil:** Check oil level before each use. Change oil regularly as per the maintenance schedule in the full owner's manual.
- **Air Filter:** Inspect and clean the air filter regularly. Replace if damaged.
- **Spark Plug:** Inspect and clean the spark plug periodically. Replace if worn or fouled.
- **Fuel System:** For long-term storage, it is recommended to drain the carburetor and fuel tank to prevent fuel degradation. Use a fuel stabilizer if storing with fuel in the tank.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Generator will not start	No fuel, low oil, main switch off, fuel valve off.	Add fuel, add oil, turn main switch ON, turn fuel valve ON.
No power output	Overload, circuit breaker tripped.	Reduce load, reset circuit breaker.
Engine stops during operation	Low fuel, low oil, CO sensor activated.	Add fuel, add oil, move generator to well-ventilated area.

For more detailed troubleshooting, please consult the full owner's manual or contact customer support.

## SPECIFICATIONS

Feature	Detail

Feature	Detail
Model Name	2300 Watt Inverter Generator (SUA2301i)
Brand	A-iPower
Starting Wattage	2300 Watts
Running Wattage	1800 Watts
Fuel Type	Gasoline
Tank Volume	0.9 Gallons
Runtime (at 25% load)	9 hours
Voltage	120 Volts
Current Rating	19.17 Amps
Frequency	60 Hz
Engine Type	80cc OHV 4-Cycle Engine
Sound Level	52 dB
Item Weight	42.2 Pounds
Product Dimensions (L x W x H)	21.5"L x 12.8"W x 21.1"H

## WARRANTY AND SUPPORT

A-iPower stands behind its products with a **3-Year Limited Manufacturer's Warranty**. For technical assistance, parts, or warranty claims, please contact A-iPower customer support.

Visit the official A-iPower Store for more information and product registration: [A-iPower Store](#)