

## A-iPower SUA4000i

# A-iPower SUA4000i Portable Inverter Generator User Manual

Model: SUA4000i

## INTRODUCTION

This manual provides instructions for the safe operation, maintenance, and troubleshooting of the A-iPower SUA4000i Portable Inverter Generator. The SUA4000i is designed to provide clean, quiet, and efficient power for various applications, including camping, tailgating, RV use, and home emergencies. It delivers 4,000 starting watts and 3,500 running watts, suitable for sensitive electronics.



Image: The A-iPower SUA4000i portable inverter generator, showcasing its compact design and control panel.

## SAFETY INFORMATION

Always read and understand all safety warnings and instructions before operating the generator. Failure to follow these instructions can result in serious injury or death.

- **Carbon Monoxide Hazard:** Generators produce carbon monoxide, a colorless, odorless, poisonous gas. Operate the generator outdoors in a well-ventilated area, far from windows, doors, and vents. Never operate indoors or in enclosed spaces.
- **Electrical Shock Hazard:** Do not operate the generator in wet conditions. Ensure all electrical connections are secure and dry.
- **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.
- **Hot Surfaces:** The generator's engine and muffler become hot during operation and remain hot for a period after shutdown. Avoid contact to prevent burns.
- **Children and Pets:** Keep children and pets away from the generator during operation.

## SETUP AND ASSEMBLY

### Unpacking and Contents

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

# WHAT'S IN THE BOX

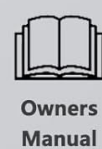
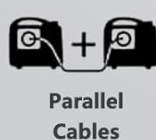


Image: Diagram showing the contents included with the A-iPower SUA4000i generator, such as the telescoping handle, wheels, 30A RV adaptor, parallel cables, tool kit, 12V DC charging cables, oil funnel, owner's manual, and quick start guide.

## Wheel and Handle Installation

The SUA4000i comes with a built-in telescoping handle and wheels for easy transport. Attach the wheels and handle according to the instructions in the included quick start guide or owner's manual. Ensure all fasteners are securely tightened.





Image: A person easily transporting the A-iPower SUA4000i generator using its integrated folding handle and wheels.

## Adding Engine Oil

The generator is shipped without engine oil. Before first use, add the recommended amount and type of oil (typically 10W-30) using the provided oil funnel. Refer to the owner's manual for exact oil capacity and type. The generator is equipped with a low oil alert light and automatic shutdown to protect the engine.

## Adding Fuel

This generator operates on gasoline. Fill the fuel tank with fresh, unleaded gasoline. Do not overfill. Ensure the fuel cap is securely tightened after refueling.

**Warning: Do not use E85 or any other fuel containing more than 10% ethanol. This can damage the engine and void the warranty.**

## OPERATING INSTRUCTIONS

### Control Panel Overview

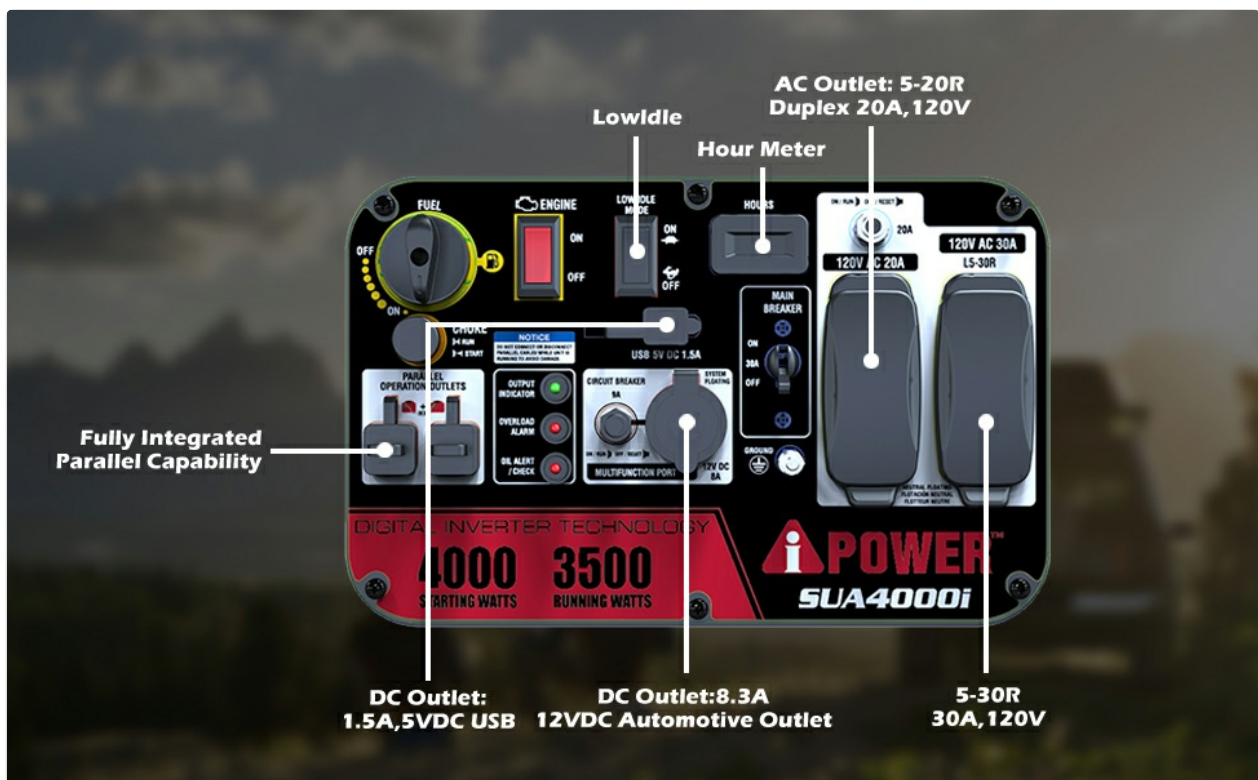


Image: Detailed diagram of the A-iPower SUA4000i control panel, highlighting the fuel switch, engine switch, low idle mode switch, hour meter, output indicators, circuit breakers, DC outlets (USB and automotive), and AC outlets (120V 20A Household and 120V 30A L5-30R Locking).

## Starting the Generator

1. Ensure the generator is on a level surface and away from any obstructions.
2. Turn the fuel valve to the "ON" position.
3. Set the engine switch to "ON".
4. Pull the recoil starter handle firmly and steadily until the engine starts.
5. Once the engine is running, allow it to warm up for a few moments.

## Connecting Electrical Devices

The SUA4000i provides clean power suitable for sensitive electronics. It features:

- Two NEMA 120V AC 20A Household outlets
- One NEMA 120V AC 30A L5-30R Locking outlet (RV Ready)
- Two USB outlets (1.5A, 5VDC)
- One 12VDC Automotive outlet (8.3A)

Plug your devices into the appropriate outlets. Do not exceed the generator's running wattage of 3,500 watts.





Image: The A-iPower SUA4000i generator providing power to an RV, demonstrating its RV-ready capability.



Image: A person charging a smartphone directly from one of the USB ports on the generator's control panel.

## Low Idle Technology

The generator features A-iPower's "Low idle" technology, which automatically adjusts engine speed to match the load. This extends run time (up to 7 hours at 50% load) and reduces noise levels (58 decibels).



Image: A sound meter displaying 58 dB, indicating the quiet operation of the A-iPower SUA4000i generator.

## Parallel Capability

The SUA4000i is designed with fully integrated parallel capability, allowing you to connect two identical generators together to double the power output. Refer to the owner's manual for detailed instructions on parallel connection using the appropriate cables.

## MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your generator. Always shut down the engine and allow it to cool before performing any maintenance.

- **Engine Oil:** Check oil level before each use. Change engine oil after the first 20 hours of operation, then every 100 hours or annually, whichever comes first.
- **Air Filter:** Inspect and clean the air filter every 50 hours or more frequently in dusty conditions. Replace if damaged.
- **Spark Plug:** Inspect the spark plug every 100 hours. Clean or replace as needed.
- **Fuel Filter:** Inspect and clean or replace the fuel filter as recommended in the owner's manual.
- **Storage:** For long-term storage, drain the fuel tank and carburetor, or add a fuel stabilizer. Store in a clean, dry area.

## TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Engine will not start	No fuel, low oil, engine switch off, spark plug issue	Add fuel, check oil level, turn engine switch ON, inspect/replace spark plug
No power output	Circuit breaker tripped, overload, device fault	Reset circuit breaker, reduce load, check connected devices
Engine runs rough	Stale fuel, dirty air filter, spark plug issue	Drain and replace fuel, clean air filter, inspect/replace spark plug
Low oil shutdown activated	Engine oil level is too low	Add engine oil to the correct level

For issues not listed here, or if troubleshooting steps do not resolve the problem, contact A-iPower customer support.

## SPECIFICATIONS

Feature	Detail
Brand	A-iPower
Model Name	4000 Watt Portable Inverter Generator
Item Model Number	SUA4000i
Starting Wattage	4000 Watts
Running Wattage	3500 Watts
Engine Type	223cc OHV 4-Stroke
Fuel Type	Gasoline
Tank Volume	4.7 Gallons
Voltage	120 Volts
Total Power Outlets	5 (2x 120V AC 20A, 1x 120V AC 30A L5-30R, 2x USB)
Ignition System Type	Recoil start
Noise Level	58 Decibels
Item Weight	100 Pounds
Product Dimensions	23.8 x 19.2 x 22 inches
Special Feature	Portable, Low Idle Technology, Parallel Capability

## WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the official A-iPower website or the warranty card included with your product. Keep your purchase receipt for warranty claims.

For technical assistance or parts, contact A-iPower customer service. Contact details are typically found in your owner's manual or on the manufacturer's website.