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A-iPower SUA12000ED

A-iPower SUA12000ED Dual Fuel Portable Generator Instruction Manual

Model: SUA12000ED | Brand: A-iPower

1. INTRODUCTION

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your A-iPower SUA12000ED Dual Fuel Portable Generator. Please read this manual thoroughly before operating the generator to ensure proper use and to prevent injury or damage. Keep this manual for future reference.

The A-iPower SUA12000ED is designed to provide reliable power using either gasoline or propane (LPG). It features a powerful 459cc OHV 4-stroke engine, electric start, and multiple outlets for various applications.

iPOWER



**459CC OHV
ENGINE**



**7 GAL
FUEL TANK**



**60HZ
FREQUENCY**



Figure 1: A-iPower SUA12000ED Generator Overview

2. SAFETY INFORMATION

Operating a generator can be hazardous if safety precautions are not followed. Always prioritize safety to prevent serious injury or death.

- **Carbon Monoxide Hazard:** Generators produce carbon monoxide (CO), an odorless, colorless, and deadly gas. Operate the generator outdoors only, far away from windows, doors, and vents. Never operate indoors or in partially enclosed spaces.
- **Fire Hazard:** Gasoline and propane are highly flammable. Refuel only when the engine is off and cool. Store fuel in approved containers in a well-ventilated area, away from ignition sources.
- **Electrical Shock Hazard:** Never operate the generator in wet conditions. Ensure all connections are dry and properly grounded. Do not connect the generator directly to your home'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 touching hot surfaces to prevent burns.
- **Moving Parts:** Keep hands, feet, hair, and clothing away from moving parts to prevent entanglement and

injury.

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

3. COMPONENTS OVERVIEW

Familiarize yourself with the main components of your SUA12000ED generator:

- **Engine:** 459cc OHV 4-stroke engine.
- **Fuel Tank:** 7-gallon gasoline tank with a fuel gauge.
- **Control Panel:** Features various outlets, engine switch, hour meter, low oil indicator, and circuit breakers.
- **Electric Start:** For convenient starting.
- **Recoil Start:** Manual pull-start as a backup.
- **Folding Handle and Wheels:** For easy portability.
- **Outlets:** Includes 120V 20A GFCI (NEMA 5-20R), 120V 30A (NEMA L5-30R), 120/240V 30A (NEMA L14-30R), and 12V DC multifunction port.

VERSATILE PANEL TO MEET YOUR NEEDS

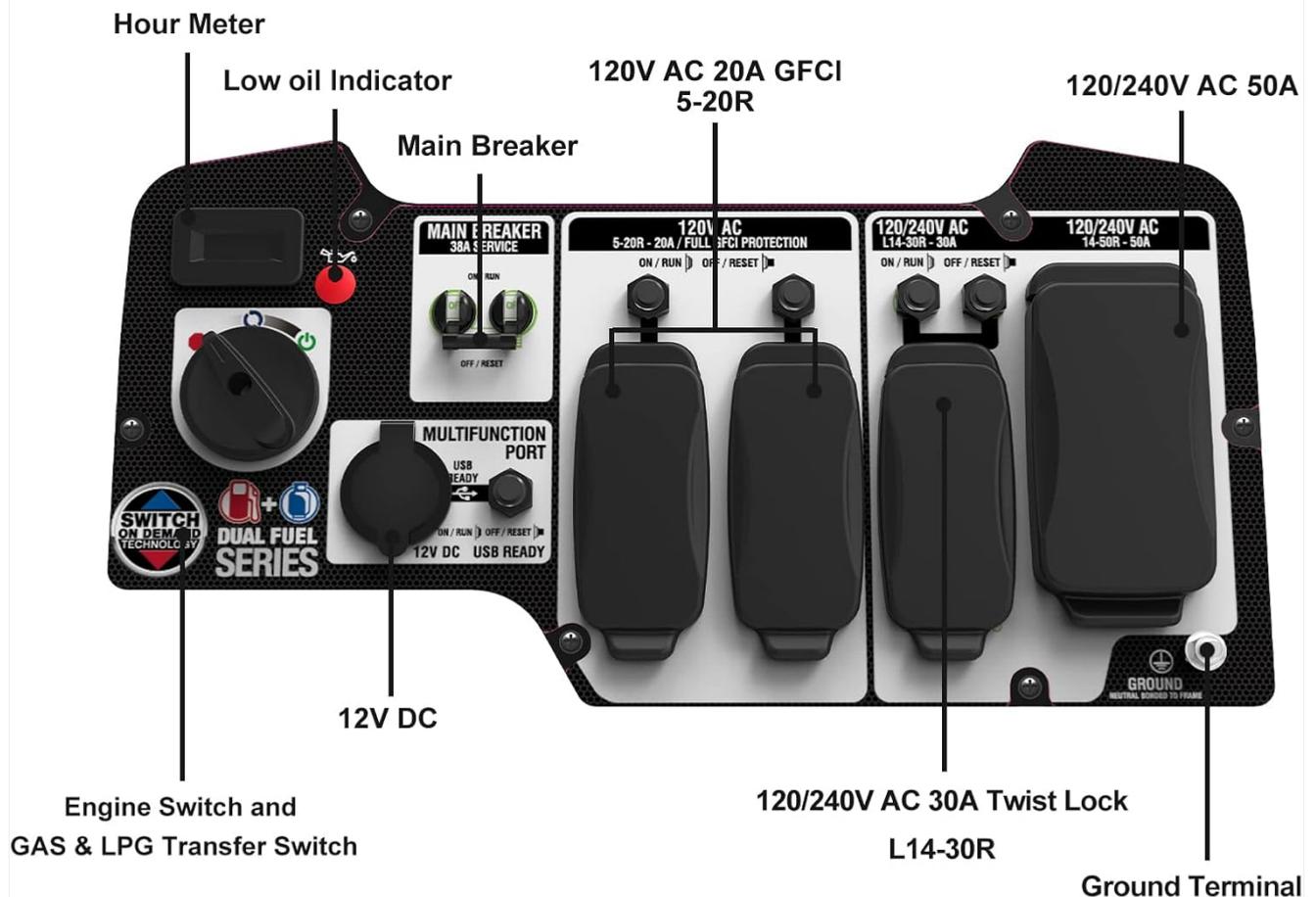


Figure 2: Control Panel and Outlets



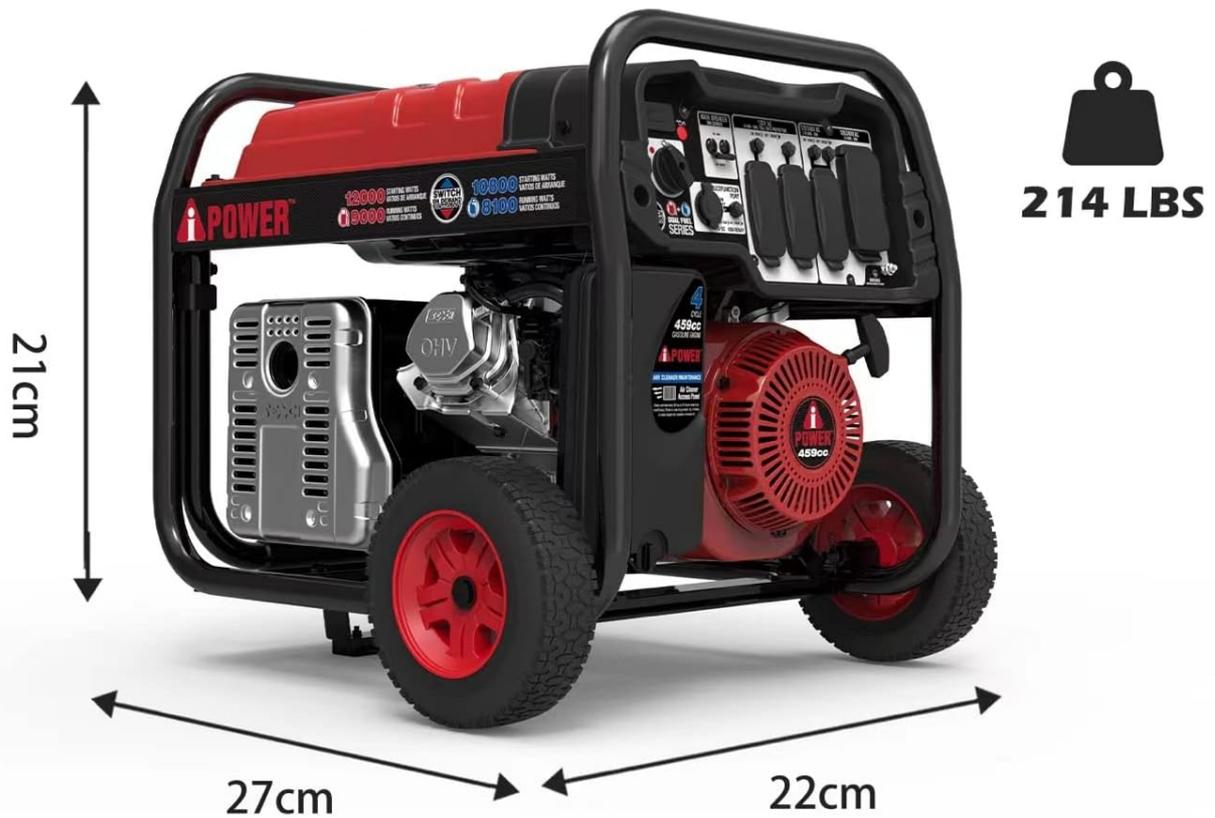
Figure 3: Key Features and Indicators

4. SETUP

Before first use, perform the following setup steps:

1. **Unpacking:** Carefully remove the generator and all components from the packaging. Inspect for any shipping damage.
2. **Wheel and Handle Assembly:** Attach the wheels and folding handle according to the instructions in the included Quick Start Guide.
3. **Add Engine Oil:** The engine is shipped without oil. Remove the oil fill cap/dipstick and add the recommended amount and type of engine oil (typically 10W-30, refer to the Quick Start Guide for exact specifications). Do not overfill.
4. **Connect Battery:** Connect the battery cables to the battery terminals. Ensure correct polarity (red to positive, black to negative).
5. **Add Fuel:**
 - **Gasoline:** Fill the fuel tank with fresh, unleaded gasoline (minimum 87 octane). Do not use E85 or mix oil with gasoline. Do not overfill.
 - **Propane (LPG):** Connect a standard propane tank (not included) to the generator's propane inlet using the provided hose and regulator. Ensure all connections are tight.

WHAT'S IN THE BOX



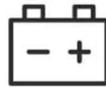
Oil



Tool Kit



12v DC Charging
Battery Cable



Battery



Manual



Quick Start
Guide



Propane Hose/
Regulator

Figure 4: What's in the Box and Dimensions

5. OPERATING INSTRUCTIONS

5.1 Starting the Generator (Gasoline)

1. Ensure the generator is on a level surface, outdoors, and away from any structures.
2. Turn the fuel valve to the "ON" position.
3. Set the fuel selector switch to "GASOLINE".
4. If the engine is cold, move the choke lever to the "CHOKE" position.
5. Press and hold the electric start button until the engine starts. If it doesn't start after a few seconds, release and try again. Alternatively, use the recoil start by pulling the starter cord firmly.
6. Once the engine starts, slowly move the choke lever to the "RUN" position.
7. Allow the engine to run for a few minutes to warm up before connecting electrical loads.

5.2 Starting the Generator (Propane/LPG)

1. Ensure the generator is on a level surface, outdoors, and away from any structures.
2. Connect the propane tank and open the tank valve.

3. Set the fuel selector switch to "PROPANE".
4. If the engine is cold, move the choke lever to the "CHOKE" position.
5. Press and hold the electric start button until the engine starts. Propane may require slightly longer cranking. If it doesn't start after a few seconds, release and try again. Alternatively, use the recoil start.
6. Once the engine starts, slowly move the choke lever to the "RUN" position.
7. Allow the engine to run for a few minutes to warm up before connecting electrical loads.



Figure 5: Electric Start and Fuel Selector

5.3 Connecting Electrical Loads

- Ensure the generator is running stably.
- Plug in your appliances or extension cords into the appropriate outlets.
- Do not overload the generator. Refer to the generator's rated running watts and your appliance's wattage requirements.
- Always use heavy-duty, outdoor-rated extension cords.

5.4 Stopping the Generator

1. Disconnect all electrical loads from the generator.
2. Allow the generator to run for a few minutes without load to cool down.
3. Turn the engine switch to the "OFF" position.
4. If using propane, close the valve on the propane tank.
5. If storing for an extended period, follow the storage instructions in the maintenance section.

6. MAINTENANCE

Regular maintenance is crucial for the longevity and reliable operation of your generator. Always perform maintenance when the engine is off and cool.

Maintenance Schedule

Service Item	Every Use	Every 25 Hours / Annually	Every 100 Hours / Annually
Check Engine Oil Level	✓		
Clean Air Filter		✓	
Change Engine Oil		(First 5 hours, then as scheduled)	✓
Inspect Spark Plug			✓
Inspect Fuel Filter			✓

For detailed instructions on each maintenance task, refer to the specific sections in your Quick Start Guide or contact customer support.

7. TROUBLESHOOTING

If your generator experiences issues, consult the following common troubleshooting steps:

Common Troubleshooting

Problem	Possible Cause	Solution
Engine will not start	No fuel, low oil, choke incorrect, spark plug issue, battery dead (for electric start)	Add fuel, check oil level, adjust choke, inspect/clean spark plug, charge/replace battery.
No power output	Circuit breaker tripped, overloaded, faulty connection	Reset circuit breakers, reduce load, check connections.
Engine runs rough	Stale fuel, dirty air filter, spark plug issue	Drain and replace with fresh fuel, clean/replace air filter, inspect/clean spark plug.
Low oil indicator on	Low engine oil level	Add engine oil to the correct level.

If these steps do not resolve the issue, contact A-iPower customer support.

8. SPECIFICATIONS

Feature	Detail
Model	SUA12000ED
Engine Type	459cc OHV 4-Stroke
Starting Watts (Gasoline)	12000 Watts
Running Watts (Gasoline)	9000 Watts
Starting Watts (Propane)	10800 Watts
Running Watts (Propane)	8100 Watts
Fuel Type	Gasoline, Propane (LPG)
Fuel Tank Capacity	7 Gallons
Run Time (Gasoline, 50% load)	Up to 9 hours
Start Type	Electric Start, Recoil Start
Outlets	4 x 120V 20A GFCI (NEMA 5-20R), 1 x 120V 30A (NEMA L5-30R), 1 x 120/240V 30A (NEMA L14-30R), 1 x 12V DC Multifunction Port
Item Weight	214 Pounds
Product Dimensions	10.63"L x 8.66"W x 8.27"H (Note: These dimensions seem incorrect for a generator of this size, likely referring to a component. Refer to manufacturer's full specifications for overall unit dimensions.)

9. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or visit the official A-iPower website. For technical assistance, parts, or service, please contact A-iPower customer support directly. Ensure you have your model number (SUA12000ED) and serial number ready when contacting support.

Manufacturer: A-iPower

Model Number: SUA12000ED

UPC: 851217006428

