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Unicraft PG-I 20 SR

Unicraft PG-I 20 SR Inverter Generator User Manual

Model: PG-I 20 SR

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Unicraft PG-I 20 SR Inverter Generator. Please read this manual thoroughly before operating the generator to ensure proper use and to prevent injury or damage.

The Unicraft PG-I 20 SR is a reliable power generator featuring inverter technology for stable power output, suitable for various applications including home, garden, camping, caravans, boats, and for powering sensitive electronic devices.

2. SAFETY INSTRUCTIONS

WARNING: Operating this generator can produce carbon monoxide, a colorless, odorless, poisonous gas. Using a generator indoors CAN KILL YOU IN MINUTES. Always use the generator outdoors and far away from windows, doors, and vents.

- **Fuel Safety:** Gasoline is highly flammable. Always refuel in a well-ventilated area with the engine off and cool. Do not smoke or allow open flames near the generator.
- **Ventilation:** Ensure adequate ventilation around the generator during operation to prevent overheating and carbon monoxide buildup.
- **Electrical Safety:** Do not operate the generator in wet conditions. Ensure all connections are secure and properly grounded. Avoid touching live electrical parts.
- **Overload Protection:** The generator is equipped with a thermal circuit breaker to protect against overloads. If an overload occurs, the generator will shut down. Reduce the load before restarting.
- **Low Oil Shutdown:** The generator features a low oil shutdown system with a warning light to prevent engine damage. If the oil level is too low, the engine will stop. Check and refill oil before restarting.
- **Children and Pets:** Keep children and pets away from the generator during operation.

3. PACKAGE CONTENTS

Upon unpacking, verify that all components are present and undamaged. The package should contain:

- Unicraft PG-I 20 SR Inverter Generator
- User Manual (this document)

- (Additional accessories, if any, would be listed here by the manufacturer)

4. SETUP

4.1 Placement

Place the generator on a firm, level surface outdoors, away from any combustible materials, buildings, or vents. Ensure at least 1 meter (3 feet) of clear space around the generator for proper ventilation.

4.2 Adding Engine Oil

Before first use, the engine must be filled with the appropriate amount of engine oil. Refer to the engine oil specifications in the 'Specifications' section. Do not overfill.

4.3 Adding Fuel

Ensure the generator is turned off and cool before adding fuel. Use fresh, unleaded gasoline. The fuel tank capacity is **4.1 liters**. Do not fill the tank completely; leave some space for fuel expansion.



Figure 1: Unicraft PG-I 20 SR Inverter Generator. This image shows the overall design of the generator, including the control panel and fuel cap location, which is essential for setup and operation.

5. OPERATING INSTRUCTIONS

5.1 Starting the Generator (Manual Start)

1. Ensure the generator is on a level surface and all safety precautions are observed.
2. Turn the fuel valve to the "ON" position.
3. Move the choke lever to the "CHOKE" position (for cold starts).
4. Turn the engine switch to the "ON" position.
5. Pull the recoil starter handle firmly until the engine starts.
6. Once the engine starts, gradually move the choke lever to the "RUN" position.
7. Allow the engine to warm up for a few minutes before connecting electrical devices.

5.2 Eco Mode Operation

The Eco mode feature allows the generator to automatically adjust engine speed to match the electrical load. This reduces fuel consumption and noise levels when full power is not required.

- To activate Eco mode: Locate the Eco switch on the control panel and set it to "ON".
- To deactivate Eco mode: Set the Eco switch to "OFF" for full power output.

5.3 Connecting Electrical Devices

The generator provides 2 x 230V Schuko outlets and 1 x 12V 5A DC outlet. Ensure the total wattage of connected devices does not exceed the generator's rated output (1.7 kW continuous).

- Plug your devices into the appropriate outlets.
- Monitor the indicator lights for output voltage and overload.

5.4 Stopping the Generator

1. Disconnect all electrical devices from the generator.
2. Turn the engine switch to the "OFF" position.
3. Turn the fuel valve to the "OFF" position.

6. MAINTENANCE

Regular maintenance is crucial for the longevity and reliable operation of your generator.

- **Engine Oil:** Check the engine oil level before each use. Change the oil according to the schedule in the full service manual (not provided here).
- **Air Filter:** Inspect and clean the air filter regularly, especially in dusty conditions.
- **Spark Plug:** Inspect and clean the spark plug periodically. Replace if worn.
- **Fuel System:** If storing the generator for an extended period, drain the fuel tank and carburetor to prevent fuel degradation and gumming.
- **Cleaning:** Keep the generator clean and free of debris. Do not use water to clean the engine or electrical components.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Engine does not start	No fuel or low fuel Low engine oil Engine switch OFF Choke not set correctly	Add fuel Add engine oil Turn engine switch to ON Adjust choke lever
No power output	Overload protection activated Devices not properly connected	Reduce electrical load, then restart generator Check connections
Low oil warning light ON	Engine oil level is low	Stop engine, check oil level, and refill
Overload warning light ON	Generator is overloaded	Disconnect devices, reduce load, and restart generator

8. SPECIFICATIONS

Feature	Detail
Model	PG-I 20 SR
Manufacturer Model Number	6706120
Type	Inverter Generator
Rated Voltage	230 V
Active Power (LTP)	1.8 kW
Active Power (COP)	1.7 kW
Fuel Type	Gasoline
Fuel Tank Capacity	4.1 L
Runtime at 50% Load	5.7 hours
Runtime at 100% Load	3.8 hours
Start Type	Manual Start
Outlets	2 x 230 V Schuko, 1 x 12 V 5 A DC
Generator Protection Class	IP 23M
Socket Protection Class	IP 54
Sound Pressure Level (Lp)	70 dB(A)
Sound Power Level (LW)	93 dB(A)
Dimensions (L x W x H)	525 mm x 282 mm x 457 mm (approx.)
Weight	18.5 kg
Special Features	Overload Protection, Low Oil Shutdown, Eco Mode

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided at the time of purchase or contact your retailer. Information regarding spare parts availability is currently not available through this manual.

For technical support or service inquiries, please contact Unicraft customer service or your authorized Unicraft dealer.