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Hyundai Power Products HY2000si

Hyundai HY2000si 2000-watt Portable Inverter Generator Instruction Manual

Model: HY2000si

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Hyundai HY2000si 2000-watt Portable Inverter Generator. Please read this manual thoroughly before operating the generator to ensure proper use and to prevent injury or damage.

The Hyundai HY2000si is a portable inverter generator designed to provide clean, stable power for various applications, from recreational use to backup power. It features a lightweight design, quiet operation, and a dynamic throttle system for improved fuel efficiency.



Image 1.1: Front view of the Hyundai HY2000si Portable Inverter Generator, showcasing its compact blue casing and control panel.

2. SAFETY INFORMATION

Operating a generator can be hazardous. Always follow these safety precautions to reduce the risk of injury, fire, or carbon monoxide poisoning.

2.1 Carbon Monoxide Hazard

- Generators produce carbon monoxide, an odorless, colorless, and poisonous gas.
- **NEVER** operate the generator indoors, in a garage, shed, or any enclosed or partially enclosed space.
- Always operate the generator outdoors in a well-ventilated area, far from windows, doors, and vents.
- Install battery-operated carbon monoxide alarms in your home or any area where the generator might be used.

2.2 Fire Hazard

- Fuel is highly flammable. Store fuel in an approved container in a well-ventilated area away from ignition

sources.

- Do not refuel the generator while it is running or hot. Allow the engine to cool before adding fuel.
- Do not overfill the fuel tank. Leave space for fuel expansion.
- Keep flammable materials away from the generator during operation.

2.3 Electrical Shock Hazard

- Do not operate the generator in wet conditions, such as rain or snow.
- Ensure all electrical connections are secure and in good condition.
- Always use properly rated extension cords.
- Never connect the generator directly to your home's electrical system without a transfer switch installed by a qualified electrician. This can cause backfeeding, which is dangerous for utility workers.

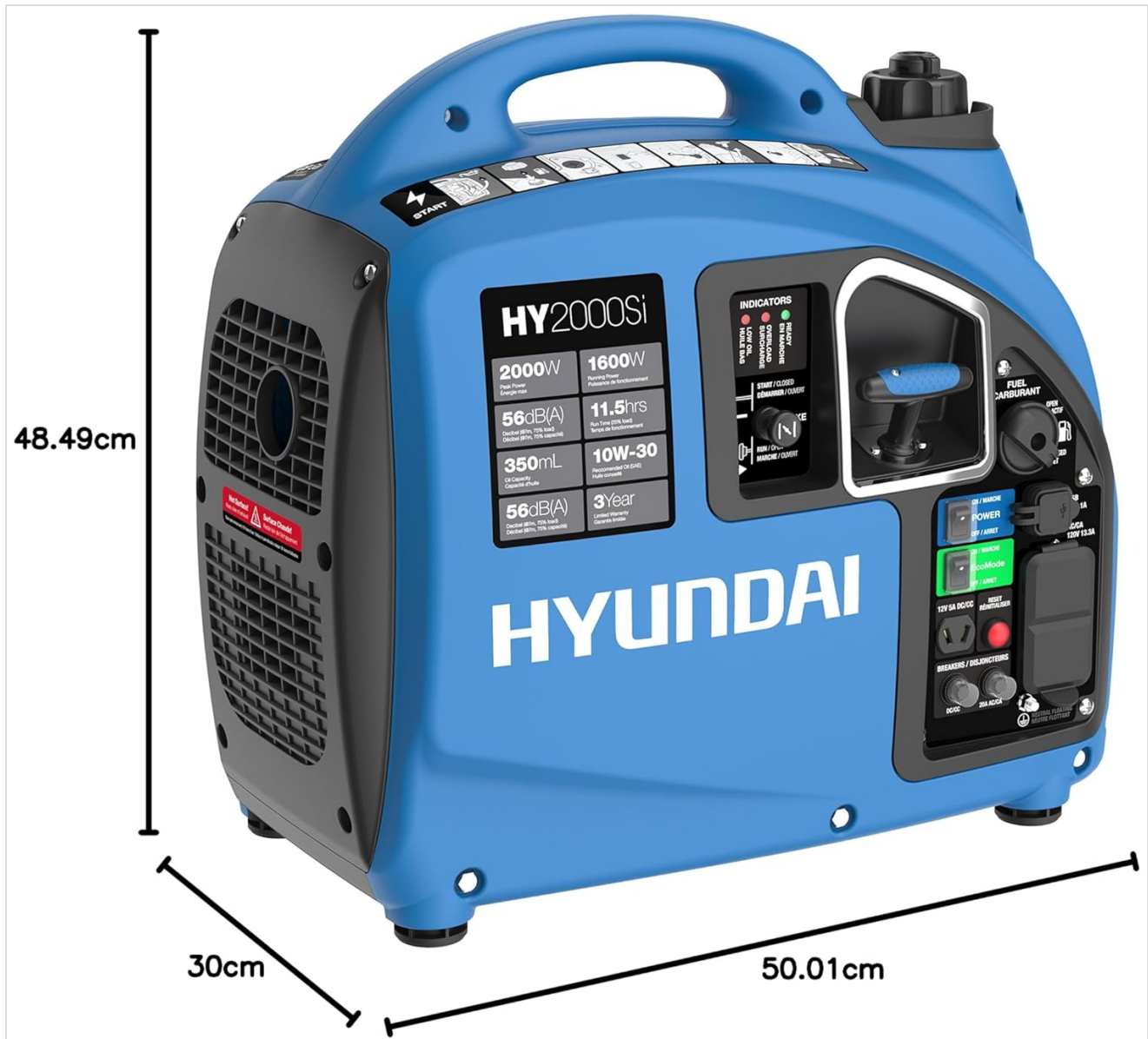


Image 2.1: Rear view of the Hyundai HY2000si generator, showing various warning labels regarding safe operation and fuel handling.

3. PRODUCT OVERVIEW

Familiarize yourself with the components and controls of your HY2000si generator.

3.1 Control Panel



Image 3.1: Detailed view of the HY2000si control panel, highlighting the various switches, outlets, and indicator lights.

- **Indicators:** Lights for Low Oil, Overload, and Run status.
- **Choke Lever:** Used for starting a cold engine.
- **Fuel Cap:** For accessing the fuel tank.
- **Power Switch (ON/OFF):** Controls the generator's main power.
- **EcoMode Switch (ON/OFF):** Engages the dynamic throttle for fuel efficiency.
- **USB 5V 3.1A Port:** For charging USB devices.
- **AC/CA 120V 13.3A Outlets:** Standard household outlets.
- **12V 5A DC/CC Outlet:** For 12V DC applications.
- **Reset Button:** For resetting the generator after an overload.
- **Breakers (DC/CC, 20A AC/CA):** Overcurrent protection.

3.2 Other Components

- **Recoil Starter:** Manual pull-start mechanism.
- **Oil Fill Cap/Dipstick:** For checking and adding engine oil.

- **Air Filter Cover:** Protects the air filter.
- **Muffler:** Reduces engine noise.

4. SETUP

Before first use, the generator requires initial setup.

4.1 Add Engine Oil

1. Place the generator on a level surface.
2. Remove the oil fill cap/dipstick.
3. Carefully add 350mL of 10W-30 engine oil. Do not overfill.
4. Reinstall the oil fill cap/dipstick securely.

4.2 Add Fuel

1. Ensure the generator is turned OFF and cool.
2. Unscrew the fuel cap.
3. Slowly add fresh, unleaded gasoline to the fuel tank. Do not fill past the red indicator or the bottom of the filler neck.
4. Securely replace the fuel cap.

4.3 Grounding the Generator

For safety, it is recommended to ground the generator. Consult local electrical codes for proper grounding procedures. Typically, this involves connecting a ground wire from the generator's ground terminal to a suitable ground rod.

5. OPERATING INSTRUCTIONS

5.1 Starting the Engine

1. Ensure the generator is on a level surface and outdoors in a well-ventilated area.
2. Check oil and fuel levels.
3. Turn the fuel valve to the 'OPEN' position.
4. If the engine is cold, move the choke lever to the 'CHOKE' position. If warm, leave it in 'RUN'.
5. Turn the Power Switch to 'ON'.
6. Firmly pull the recoil starter handle until the engine starts.
7. Once the engine starts, slowly move the choke lever to the 'RUN' position.

5.2 Stopping the Engine

1. Disconnect all electrical loads from the generator.
2. Turn the Power Switch to 'OFF'.
3. Turn the fuel valve to the 'CLOSED' position.

5.3 EcoMode Operation

The EcoMode feature automatically adjusts engine speed to match the load, improving fuel efficiency and reducing noise. To activate, simply switch the EcoMode switch to 'ON'. For maximum power output, switch EcoMode to 'OFF'.

5.4 Connecting Electrical Devices

Once the generator is running stably, you can connect your electrical devices. Ensure the total wattage of connected devices does not exceed the generator's rated running wattage (1600W).

- Plug devices into the appropriate AC or DC outlets.
- If an overload occurs, the Overload indicator will light up, and power output will stop. Disconnect devices, turn the generator off, then press the Reset button and restart. Reduce the load before reconnecting.



Image 5.1: The Hyundai HY2000si generator providing power in an outdoor camping environment, demonstrating its portable use.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your generator.

6.1 Maintenance Schedule

| Item | Every Use | Every 25 Hrs / Monthly | Every 100 Hrs / 6 Months | Every 300 Hrs / Annually |
|----------------------|-----------|------------------------|--------------------------|--------------------------|
| Check Engine Oil | ✓ | | | |
| Clean Air Filter | | ✓ | | |
| Change Engine Oil | | ✓ (First 25 hrs) | ✓ | |
| Inspect Spark Plug | | | ✓ | |
| Clean Spark Arrestor | | | ✓ | |
| Inspect Fuel Filter | | | | ✓ |

6.2 Storage

For long-term storage, drain the fuel tank and carburetor, or add a fuel stabilizer. Store the generator in a clean, dry place.

7. TROUBLESHOOTING

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

7.1 Engine Will Not Start

- **No Fuel:** Check fuel level and add fresh fuel if necessary.
- **Low Oil:** Check engine oil level. The generator has a low-oil shutdown feature. Add oil if needed.
- **Choke Position:** Ensure the choke is in the correct position for starting (CHOKE for cold, RUN for warm).
- **Power Switch:** Verify the Power Switch is in the 'ON' position.
- **Spark Plug:** Inspect the spark plug for fouling or damage. Clean or replace if needed.

7.2 No Power Output

- **Overload:** If the Overload indicator is lit, disconnect devices, press the Reset button, and restart. Reduce the load.
- **Circuit Breaker:** Check if any AC or DC circuit breakers have tripped. Reset them if necessary.
- **Connections:** Ensure all power cords are securely connected.

7.3 Engine Runs Poorly

- **Stale Fuel:** Use fresh gasoline. Old fuel can cause performance issues.
- **Air Filter:** A dirty air filter can restrict airflow. Clean or replace the air filter.
- **Spark Plug:** Inspect the spark plug.

8. SPECIFICATIONS

| Specification | Value |
|---------------|----------|
| Model | HY2000si |

| Specification | Value |
|-------------------------|------------------------------------|
| Peak Wattage | 2000 Watts |
| Running Wattage | 1600 Watts |
| Noise Level (100% Load) | 59 dB(A) |
| Run Time (25% Load) | 11.5 hours |
| Oil Capacity | 350 mL |
| Recommended Oil Type | 10W-30 |
| Product Dimensions | 50.01 x 30 x 48.49 cm |
| Product Weight | 20 kg (44 lbs) |
| Fuel Type | Natural Gas (as per provided data) |
| Power Source | Fuel Powered |



Image 8.1: The Hyundai HY2000si generator with its dimensions (length, width, height) clearly indicated.

9. WARRANTY AND SUPPORT

Your Hyundai HY2000si Portable Inverter Generator is backed by comprehensive support.

9.1 Limited Warranty

The generator comes with a **3-year limited warranty**. Please retain your proof of purchase for warranty claims.

9.2 Customer Support

For assistance, parts, or service, please utilize the following resources:

- **Online Parts Store:** Access to genuine replacement parts with express shipping.
- **Service Centers:** Hundreds of authorized service centers located across North America.
- **Canadian Customer Service:** Dedicated support for customers in Canada.
- **24/7 Website Knowledge Bank:** Online resources for common questions and technical information.

Award Winning Customer Support



3 Year Limited Warranty



800+ Service Centers
Across North America



Online Parts Store
With Express Shipping



Canadian
Customer Service



24/7 Website
Knowledge Bank



Image 9.1: Graphic detailing Hyundai's customer support offerings, including warranty, service centers, and online resources.