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Garvee GR3500i

Garvee Inverter Generator GR3500i User Manual

Model: GR3500i

Brand: Garvee

1. Introduction and Overview

The Garvee GR3500i Inverter Generator provides a reliable and portable power source with a rated output of 3.1kVA and a maximum output of 3500W. Designed for quiet operation and producing pure sine wave power, it is suitable for a wide range of applications from powering sensitive electronics to heavy-duty tools. Its lightweight design and multiple output options make it ideal for home use, DIY projects, food trucks, camping, events, construction work, and disaster preparedness.

- **High Output, Portable Design:** Despite its 3.1kVA output, this generator is compact and lightweight, making it easy to carry with one hand. It can power large home appliances like refrigerators, washing machines, and air conditioners, as well as electric tools for construction and interior work.
- **Pure Sine Wave Inverter:** Equipped with a pure sine wave inverter, it regulates the frequency of the generated electricity to provide high-quality power comparable to commercial power sources, ensuring stable operation for precision instruments and microcontroller-equipped devices.
- **Fuel Level Display (2025 Model):** The multi-function display panel now includes a fuel level indicator, allowing you to monitor the remaining gasoline at a glance. This reduces the risk of running out of fuel unexpectedly, providing peace of mind during use.
- **Long Run Time & Fuel Efficiency:** The engine speed is automatically controlled according to the load of the connected devices, resulting in excellent fuel efficiency and significantly extended continuous operation time. With a 6L large capacity tank, it can run continuously for approximately 4 hours at rated load and about 9 hours at 1/4 load, making it sufficient for prolonged power outages or natural disasters.
- **Frequency Switching & Multiple Protection Devices:** The power frequency can be easily switched between 50Hz and 60Hz with a single switch, making it usable in any region. It features multiple protection devices, including automatic engine shutdown in case of low engine oil, over-rotation, or abnormal temperature rise.
- **Overload Protection:** Designed with safety in mind, it includes overcurrent and overload protection devices. A warning lamp system indicates the generator's status, allowing for accurate monitoring. Additionally, the engine automatically stops when engine oil is low, preventing seizure.
- **3-Way Output & Parallel Connection:** Equipped with AC, DC, and USB terminals, it can power multiple electronic products simultaneously. Two generators (of the same output type) can be connected in parallel to increase power output, achieving a maximum output of 6.2kVA. This allows for powering devices with higher

power consumption that a single generator cannot handle, expanding the generator's versatility.



Figure 1: Front view of the Garvee GR3500i Inverter Generator.



Figure 2: The lightweight design allows for easy portability.

3.1kVAの高出力で幅広い機械に対応

停電時の使用例



	パソコン	冷蔵庫	テレビ	洗濯機	電子レンジ	合計
						
消費電力 (起動電力)	250w (250w)	+ 250w (1000w)	+ 150w (150w)	+ 300w (600w)	+ 700w (1000w)	= 1650W (3000W)

屋外工事での使用例



	電気ドリル	電気サンダー	ハンマードリル	工業扇風機	LED投光器	合計
						
消費電力 (起動電力)	600w (650w)	+ 300w (350w)	+ 650w (750w)	+ 100w (150w)	+ 100w (100w)	= 1750W (2000W)

※電気製品によっては、電源立ち上げ時に瞬間的に消費電力の数倍の電力を消費する場合があり、出力を越えてしまう為、ご使用頂けないことがあります。

Figure 3: Power output examples for home and outdoor use.



Figure 4: Multi-function display panel with fuel level indicator.

2. Setup and Initial Start-up

Before starting the generator, ensure it is placed on a flat, stable surface in a well-ventilated area. Always check the oil and fuel levels before each use.

2.1. Adding Engine Oil

The generator is shipped without engine oil. You must add the specified amount of engine oil before the first use. Refer to the specifications for the correct oil type and volume.

1. Remove the engine oil side cover and pour in the oil.
2. Ensure the oil level does not exceed the upper limit of the oil plug.

▶ **Watch video online**

Video 1: This video illustrates the process of checking and draining the oil from the generator, ensuring proper maintenance and preventing engine damage.

2.2. Adding Fuel

Use unleaded gasoline. Do not overfill the fuel tank.

1. Open the fuel tank cap.
2. Carefully pour unleaded gasoline into the tank, ensuring the fuel level does not exceed the red line on the strainer.
3. Securely close the fuel tank cap.

2.3. Starting Procedure

Follow these steps to start the generator:

1. Turn the air knob on the fuel tank cap to 'ON'.
2. Set the engine switch to 'CHOKE'.
3. Pull the recoil starter firmly until you feel resistance, then pull it strongly to start the engine.
4. Once the engine rotation stabilizes, turn the engine switch to 'RUN'.



Figure 5: Step-by-step engine starting procedure.

▶ **Watch video online**

Video 2: This video demonstrates the general starting procedure for a gasoline inverter generator, including turning on the fuel cock, engine switch, and pulling the recoil starter. It also shows how to connect electrical devices.

3. Operating Instructions

3.1. Connecting Electrical Devices

The Garvee GR3500i features a total of 6 output ports (AC, DC, USB) to connect various electrical devices simultaneously. Ensure the total power consumption of connected devices does not exceed the generator's maximum output.



Figure 6: Output ports for AC, DC, and USB connections.

3.2. Eco Mode

Activate Eco Mode to optimize fuel consumption. In this mode, the engine speed adjusts automatically based on the load, reducing noise and extending run time, especially during light loads.

3.3. Parallel Operation

For higher power demands, two Garvee GR3500i generators can be connected in parallel using a dedicated parallel cable (sold separately). This increases the total output to a maximum of 6.2kVA.



Figure 7: Parallel connection of two GR3500i generators.

4. Safety Features

The Garvee GR3500i is equipped with several safety features to ensure safe operation and protect the unit:

- **Oil Warning:** If the engine oil level falls below the specified amount during operation or startup, the oil warning lamp (red) will illuminate, and the engine will automatically shut down.
- **Overload Warning:** To protect internal circuits, if an overload condition or abnormal state occurs, the overload warning lamp will flash, and the generator may stop output.
- **Overcurrent Protection:** If current exceeding the rated current flows, the protector will automatically switch to 'OFF', cutting off the output.
- **Over-rotation/Temperature Protection:** The engine will automatically stop if it over-rotates or if the temperature rises abnormally.



Figure 8: Overview of safety protection functions.

▶ **Watch video online**
GH3800i

Video 3: This video shows a real-world measurement of the noise level of a similar inverter generator, demonstrating its quiet operation.

5. Maintenance

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

5.1. Engine Oil Check and Change

Check the engine oil level before each use. Change the oil according to the maintenance schedule in the full manual. If the oil warning lamp illuminates, immediately shut down the engine and add oil.

5.2. Fuel Management

Always use fresh, unleaded gasoline. If the generator will not be used for an extended period, drain the fuel from the tank and carburetor to prevent fuel degradation.

6. Troubleshooting

If the generator encounters an issue, refer to the following common troubleshooting steps:

- **Engine does not start:** Check fuel level, oil level, and ensure the engine switch is in the correct position ('CHOKE' for starting, then 'RUN').
- **No power output:** Check for overload warning lamp. If illuminated, reduce the load on the generator. Ensure all circuit breakers are reset.
- **Engine stops unexpectedly:** Check engine oil level. The generator has an automatic low oil shutdown feature. Also, check for any abnormal temperature rise or over-rotation.

For more detailed troubleshooting, please consult the comprehensive user manual.

7. Specifications

Feature	Specification
Brand	Garvee
Model Number	GR3500i (LF3800iYF7d4)
Rated Output	3.1 kVA (3100W)
Maximum Output	3500W
Engine Type	Forced air-cooled 4-stroke single cylinder OHV engine
Displacement	149 ml
Fuel	Unleaded gasoline for automobiles
Starting Method	Recoil starter
Noise Level	66 dB (at 7m)
Fuel Tank Capacity	6 L
Continuous Operation Time	Approx. 4 hours (rated load), Approx. 9 hours (1/4 load)
Dimensions	55 x 53 x 36 cm
Weight	21 kg

Feature	Specification
Included Accessories	Instruction manual, DC power charging cable, Engine oil funnel, Screwdriver, Spark plug wrench



Figure 9: Product specifications and included accessories.

8. Warranty and Support

The Garvee GR3500i Inverter Generator comes with a 1-year manufacturer's warranty. For warranty claims, technical support, or any inquiries, please refer to the contact information provided in the included instruction manual or contact Garvee customer service directly.

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