

Genkins GK4500iF

Genkins GK4500iF 4500 Watt Open Frame Inverter Generator User Manual

Model: GK4500iF

1. INTRODUCTION

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your Genkins GK4500iF 4500 Watt Open Frame Inverter Generator. Please read this manual thoroughly before operating the generator to ensure proper use and to prevent injury or damage.

2. SAFETY INFORMATION

WARNING: Carbon Monoxide Hazard

Never use this generator inside a home, garage, or any enclosed space. Even if doors and windows are open, carbon monoxide can build up to dangerous levels. Always use the generator outdoors in a well-ventilated area, far away from windows, doors, and vents to prevent carbon monoxide poisoning. Always ensure the generator is placed on a level surface and away from flammable materials. Keep children and pets away from the operating generator.



Figure 2.1: Top view of the generator showing the fuel cap and important safety labels.

3. PRODUCT OVERVIEW

The Genkins GK4500iF is a 4500 Peak Watt / 4000 Running Watt open frame inverter generator, powered by a 223 cc 4-stroke OHV engine. It provides pure sine wave electricity (less than 3% THD) suitable for sensitive devices.

Key Features:

- 4500 Peak Watt / 4000 Running Watt output.
- Commercial class 223 cc 4-stroke OHV engine.
- True 30 Amp ready, suitable for RVs, boats, and camps.
- 2.6 Gallon fuel tank provides up to 8 hours run time at 50% load.
- Open frame design reduces weight and noise compared to traditional generators.
- 76 lbs net weight (wheel kit sold separately).

Control Panel Components:



Figure 3.1: Control Panel Layout

1. **Status Indicator:** Displays output, overload, and low oil warnings.
2. **USB Port:** 5V/2.1A output for charging small electronic devices.
3. **AC Receptacles:** Two 120V NEMA 5-20R household outlets and one 120V RV-ready TT-30R outlet.
4. **Ground Terminal:** For proper grounding of the generator.
5. **Power Switch:** Controls the generator's power.
6. **ESC Throttle Switch:** Enables or disables the Economy Smart Control (LBSC) feature for fuel efficiency.
7. **AC Reset Button:** Resets the AC circuit breaker.
8. **Choke:** Used for starting a cold engine.
9. **DC Breaker:** Protects the DC 12V output.
10. **DC 12V Port:** 12V/8.3A DC output.
11. **Parallel Outlets:** For connecting two compatible generators in parallel.

PANEL

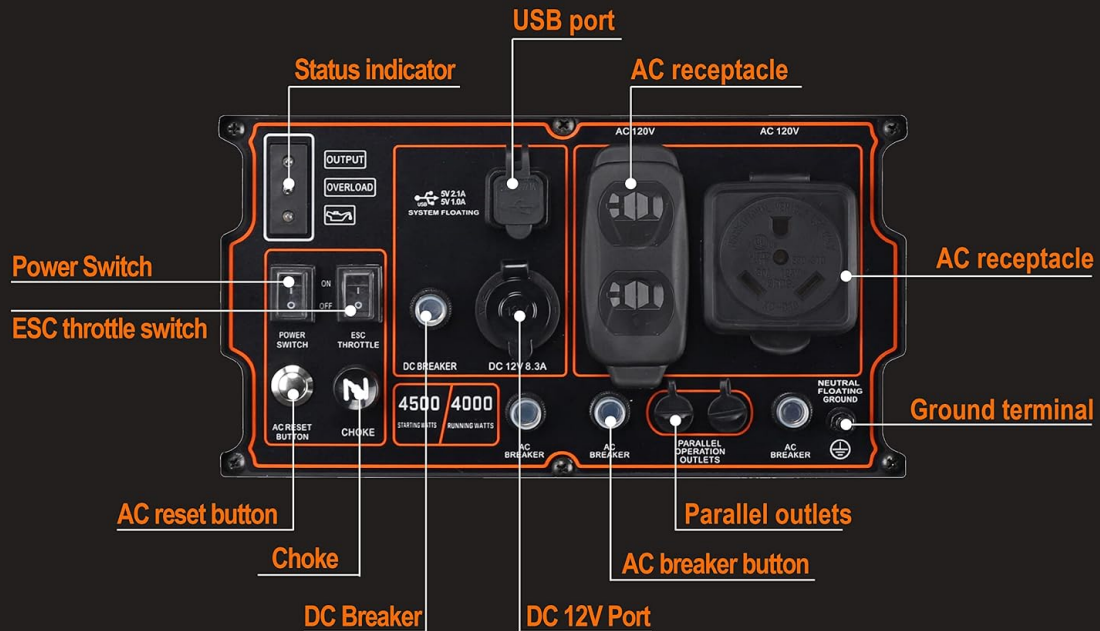


Figure 3.2: Front view of the Genkins GK4500iF Inverter Generator.



-  **POWERFUL ENGINE**
Strong and professional.
-  **LOW NOISE**
67dB@7M.
-  **LARGER FUEL TANK**
2.64 Gal fuel capacity for longtime use.
-  **RV READY**
Include 30 Amp RV outlet.
-  **LIGHTWEIGHT AND PORTABLE**
77 pounds, compact design.

 **FUEL-SAVING**
LBSC (Load Based Speed Control) technology, automatically adjust engine speed according to load conditions, saving 25% of fuel.

GK4500iF

INVERTER GENERATOR

Suggested Uses

Mobile Devices	Small Appliances	Large Appliances	Air Compressor	RV Appliances
Lights	Power Tools	12V Tools		

Power Solution for Better and Easier Life



Figure 3.3: Genkins GK4500iF highlighting key features like powerful engine, fuel-saving technology, low noise, large fuel tank, RV readiness, and lightweight design.

4. SETUP

4.1 Unpacking and Inspection

Carefully remove the generator from its packaging. Inspect for any shipping damage. Report any damage to your dealer immediately.

4.2 Adding Engine Oil

The generator is shipped without engine oil. Before first use, add 0.58 quarts (0.55 liters) of SAE 10W-40 engine oil. Do not overfill.

1. Place the generator on a level surface.
2. Locate the oil fill cap/dipstick.
3. Remove the cap and slowly add the recommended oil using the provided funnel.
4. Check the oil level with the dipstick; it should be at the upper limit.
5. Securely replace the oil fill cap.



Figure 4.1: Oil drain plug location.

4.3 Adding Fuel

Use fresh, unleaded gasoline with an octane rating of 87 or higher. The fuel tank capacity is 2.64 gallons (10 liters).

1. Ensure the generator is turned off and cooled down.
2. Open the fuel tank cap.
3. Carefully pour gasoline into the tank, avoiding overfilling. Leave space for fuel expansion.
4. Securely close the fuel tank cap.

4.4 Grounding the Generator

Always ground the generator before operation to prevent electric shock. Connect a ground wire from the generator's ground terminal to an appropriate ground source.

5. OPERATING INSTRUCTIONS

5.1 Starting the Engine

1. Ensure the generator is on a level surface and all electrical loads are disconnected.
2. Turn the fuel valve to the **ON** position.
3. Move the choke lever to the **CHOKE** position (for cold starts).
4. Turn the Power Switch to the **ON** position.
5. Pull the recoil starter handle slowly until resistance is felt, then pull quickly and firmly.
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 loads.

5.2 Connecting Electrical Loads

After the engine has warmed up, you can connect your electrical devices. Ensure the total wattage of connected devices does not exceed the generator's running wattage (4000W).

1. Plug your devices into the appropriate AC or DC receptacles.
2. If using the ESC throttle switch, you can turn it **ON** to allow the engine speed to adjust automatically based on the load, saving fuel.
3. Monitor the status indicators for any overload warnings.

5.3 Shutting Down the Engine

1. Disconnect all electrical loads from the generator.
2. Turn the Power 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.

6.1 Engine Oil Change

Change the engine oil after the first 20 hours of operation, and then every 100 hours or every 6 months, whichever comes first.

1. Run the engine for a few minutes to warm the oil, then shut it down.

- 2. Place a drain pan under the oil drain plug.
- 3. Remove the oil drain plug and the oil fill cap/dipstick to allow the oil to drain completely.
- 4. Reinstall the oil drain plug and tighten it securely.
- 5. Add new, recommended engine oil (SAE 10W-40) to the proper level.
- 6. Securely replace the oil fill cap.

6.2 Air Filter Inspection and Cleaning

Inspect the air filter regularly and clean or replace it as needed, especially in dusty conditions.

6.3 Spark Plug Inspection

Check the spark plug for wear and proper gap periodically. Replace if necessary.

6.4 Fuel Storage

For long-term storage (over 30 days), drain the fuel tank and carburetor, or use a fuel stabilizer to prevent fuel degradation.

7. TROUBLESHOOTING

If your generator experiences issues, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Engine does not start	No fuel Low engine oil Choke not set correctly Spark plug issue Power switch OFF	Add fresh fuel Add engine oil to correct level Adjust choke lever Inspect/replace spark plug Turn power switch ON
No power output	AC circuit breaker tripped Overload Loose connections	Reset AC circuit breaker Reduce connected load Check and secure connections
Engine runs rough	Stale fuel Dirty air filter Spark plug issue	Drain and refill with fresh fuel Clean/replace air filter Inspect/replace spark plug
Low oil alert light on	Low engine oil level	Add engine oil to correct level

8. SPECIFICATIONS

Detailed technical specifications for the Genkins GK4500iF Inverter Generator:

Specification	Value
Brand	Genkins
Model Number	GK4500iF
Wattage (Peak)	4500 Watts
Wattage (Running)	4000 Watts
Fuel Type	Gasoline
Engine Type	OHV, 4-stroke
Engine Displacement	223 cc
Fuel Tank Capacity	2.64 Gallons (10 Liters)
Run Time (50% load)	8 Hours
Run Time (100% load)	5 Hours
Rated Voltage Frequency	120V/60HZ
Running VAC Amperage	33.3 A
Recommended Oil	SJ 10W-40
Oil Volume	0.58 qt
Noise Level	67dB/7m
THD	≤3% (Pure Sine Wave)
Net Weight	76 lbs
Product Dimensions (L*W*H)	21" x 16" x 15"
Receptacle Details	1x 120V RV-ready TT-30R, 2x 120V NEMA 5-20R, 1x 12V DC, Dual USB adapter
Included Accessories	Funnel, Quick start instructions, Bolt sleeve, Bolt driver



Figure 8.1: Generator Dimensions.

9. WARRANTY AND SUPPORT

For warranty information or technical assistance, please contact Genkins customer support. Refer to your purchase documentation for specific warranty terms and contact details.

You can typically find support contact information on the manufacturer's website or through your retailer.