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Champion Power Equipment 201509

Champion Power Equipment 8500-Watt Electric Start Portable Inverter Generator

Model: 201509

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Champion Power Equipment 8500-Watt Electric Start Portable 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

Generators produce carbon monoxide (CO), an odorless, colorless, and poisonous gas. Operating a generator indoors or in partially enclosed spaces can lead to serious injury or death. ALWAYS operate the generator outdoors in a well-ventilated area, far away from windows, doors, and vents of occupied buildings. Ensure exhaust is directed away from people and buildings.

Your generator is equipped with **CO Shield technology**, an automatic shut-off system that detects unsafe elevated levels of carbon monoxide gas and automatically shuts off the engine. While CO Shield provides added protection, it is not a substitute for safe operation or an indoor carbon monoxide alarm.



8500W / 7000W
STARTING / RUNNING

Power at the **SAME TIME**



FURNACE



WELL PUMP



WINDOW AC
15K BTU



WATER HEATER

or **INDIVIDUALLY**



RV



EV CHARGER



JOBSITE

*REFERENCE ONLY. REFER TO ELECTRIC OR HOUSEHOLD APPLIANCES FOR WATTAGE INFORMATION.



Image: The CO Shield system on the generator's control panel, indicating automatic shutdown in case of high carbon monoxide levels.

Fuel Safety:

- Gasoline is highly flammable. Always refuel in a well-ventilated area with the engine off and cool.
- Do not overfill the fuel tank.
- Store fuel in approved containers and away from ignition sources.

Electrical Safety:

- Do not operate the generator in wet conditions.
- Ensure all electrical connections are secure and properly grounded.
- Use appropriate extension cords for outdoor use.

3. PRODUCT OVERVIEW

The Champion Power Equipment 8500-Watt Electric Start Portable Inverter Generator is designed for reliable power, featuring quiet operation and advanced safety features. It is suitable for various applications, including home backup,

RV use, camping, and job sites.

Key Features:

- **Quiet Technology:** Operates at 61 dBA from 23 feet, comparable to normal conversation.
- **Electric Start:** Easy push-button electric start with included battery.
- **CO Shield:** Automatic carbon monoxide shut-off system for enhanced safety.
- **Intelligauge:** Digital display monitors voltage, frequency, and operating hours.
- **Economy Mode:** Reduces engine speed based on electrical load, improving fuel efficiency and reducing noise.
- **Clean Power:** Produces less than 3% Total Harmonic Distortion (THD), safe for sensitive electronics.
- **Extended Run Time:** Up to 14 hours run time at 25% load on a 5.3-gallon fuel tank.

Control Panel:

+ ACCESSORIES

 **INCLUDED IN THE BOX!**

 ENGINE OIL	+	 USB ADAPTER	+	 RV ADAPTER PLUG
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 **WHEEL KIT INCLUDED**



Image: Detailed view of the generator's control panel, showing the EZ Start Dial, ignition switch, various outlets, and the Intelligauge display.

The control panel includes:

- **EZ Start Dial:** Simplifies engine startup with clear positions for choke, run, and stop.
- **Ignition Switch:** For electric start.
- **Outlets:** One 120/240V 30A locking outlet (L14-30R), two 120V 20A GFCI household duplex outlets (5-20R), and one 12V automotive-style outlet.
- **Circuit Breakers:** Protect against overloads.
- **Intelligauge:** Digital meter displaying voltage, frequency, and operating hours.
- **CO Shield Indicator:** Alerts to carbon monoxide levels.
- **Economy Mode Switch:** Activates fuel-saving mode.

Included Accessories:



Image: A visual representation of the accessories included with the generator, such as engine oil, a USB adapter, an RV adapter plug, and the wheel kit.

The generator comes with a wheel kit, engine oil (10W-30), an RV adapter plug, and a dual-port USB adapter for convenience.

4. SETUP

Follow these steps to prepare your generator for first use:

1. **Unbox the Generator:** Carefully open the packaging and remove the generator and all accessories.
2. **Attach the Wheel Kit:** Install the wheels and support legs as per the instructions in the full manual. This enhances portability.
3. **Add Engine Oil:** Locate the oil fill cap/dipstick. Using the provided funnel, add the recommended 10W-30 engine oil until it reaches the upper mark on the dipstick. The generator has a 1.2-quart oil capacity.

4. **Connect the Battery:** Locate the battery compartment and connect the battery terminals. Ensure proper polarity (red to positive, black to negative).
5. **Move Outdoors:** Transport the generator to a safe, outdoor location, away from any buildings or vents.
6. **Add Gasoline:** Fill the fuel tank with fresh, unleaded gasoline (minimum 87 octane). The fuel tank capacity is 5.3 gallons. Do not overfill.

Your browser does not support the video tag.

Video: An instructional video demonstrating the unboxing, wheel kit attachment, oil addition, battery connection, outdoor placement, and fuel addition for the Champion 8500W Electric Start Portable Inverter Generator.

5. OPERATION

Starting the Generator:

1. Ensure the generator is on a level surface and all electrical loads are disconnected.
2. Turn the EZ Start Dial to the 'CHOKE' position (if starting cold).
3. Press and hold the electric start button until the engine starts.
4. Once the engine starts, slowly turn the EZ Start Dial to the 'RUN' position.
5. Allow the engine to run for a few minutes to warm up before connecting electrical loads.

Connecting Electrical Loads:

Once the generator is running smoothly, you can connect your electrical equipment to the appropriate outlets. The generator provides clean power (less than 3% THD), making it safe for sensitive electronics.

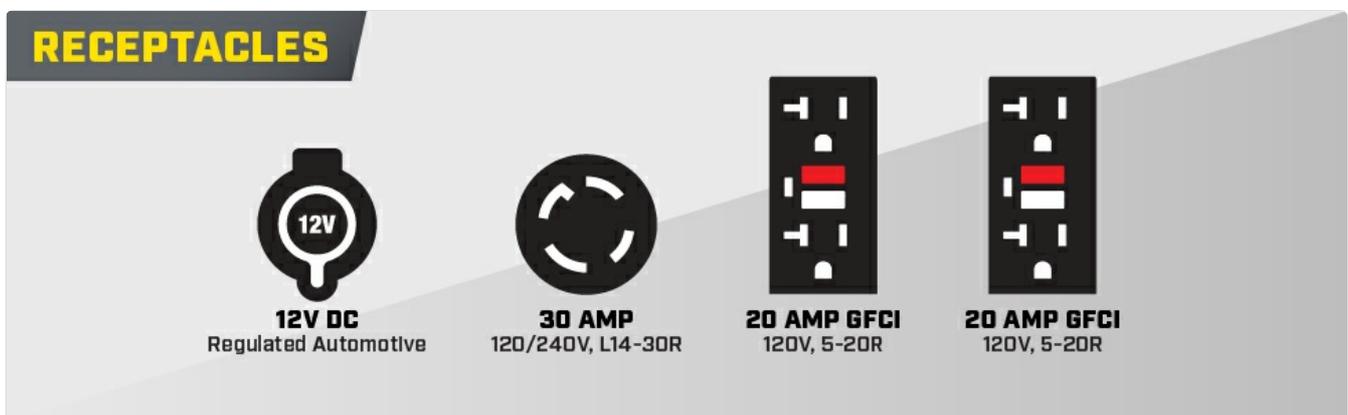


Image: A graphic illustrating the various receptacles available on the generator, including 12V DC, 30 Amp 120/240V L14-30R, and 20 Amp GFCI 120V 5-20R outlets.

- For RVs, use the 120/240V 30A locking outlet with the provided RV adapter.
- For standard household appliances, use the 120V 20A GFCI duplex outlets.
- For charging small devices, use the 12V automotive-style outlet with the dual-port USB adapter.

Economy Mode:

Engage the Economy Mode switch to allow the generator to adjust engine speed to the load demand. This reduces fuel consumption, extends engine life, and lowers noise levels when full power is not required.

6. MAINTENANCE

Regular maintenance is crucial for the longevity and optimal performance of your generator. Refer to the complete owner's manual for a detailed maintenance schedule.

- **Check Oil Level:** Before each use, ensure the engine oil level is adequate.
- **Change Oil:** Change engine oil after the first 5 hours of operation, then every 50 hours or annually. The generator features an oil drain tube for easy changes.
- **Air Filter:** Inspect and clean the air filter regularly. Replace if damaged.
- **Spark Plug:** Inspect and clean the spark plug annually or every 100 hours. Replace if necessary.
- **Fuel System:** Use a fuel stabilizer if storing the generator for extended periods to prevent fuel degradation.

7. TROUBLESHOOTING

If you encounter issues with your generator, consult the following basic troubleshooting guide. For more complex problems, refer to the comprehensive troubleshooting section in your full owner's manual or contact customer support.

Problem	Possible Cause	Solution
Engine will not start	No fuel, low oil, battery not connected, choke not set, spark plug issue.	Add fuel, check oil level, connect battery, adjust choke, inspect spark plug.
No power output	Circuit breaker tripped, overload, Economy Mode engaged.	Reset circuit breakers, reduce load, disengage Economy Mode if full power is needed.
Engine runs rough	Stale fuel, dirty air filter, spark plug issue.	Drain old fuel and add fresh, clean/replace air filter, inspect/replace spark plug.
CO Shield shutdown	High carbon monoxide levels detected.	Move generator to a more open, well-ventilated outdoor area. Allow to cool before restarting.

8. SPECIFICATIONS

Feature	Specification
Model Number	201509
Starting Watts	8500 Watts
Running Watts	7000 Watts
Fuel Type	Gasoline
Engine Displacement	420cc
Run Time (25% Load)	14 hours
Fuel Tank Capacity	5.3 Gallons
Oil Capacity	1.2 Quarts (10W-30)
Noise Level	61 dBA (from 23 feet)
Voltage	120V / 240V

Feature	Specification
Frequency	60 Hz
Item Weight	215 Pounds
Dimensions (L x W x H)	33.4" x 29.1" x 26"



Image: A diagram showing the length (33.4 inches), width (29.1 inches), and height (26 inches) of the generator, along with its weight of 215 lbs.

9. WARRANTY & SUPPORT

Your Champion Power Equipment generator is backed by a **3-year limited warranty**. This warranty covers defects in material and workmanship under normal use and maintenance.

For technical assistance, parts, or warranty claims, please contact Champion Support. You can find contact information in your full owner's manual or by visiting the official Champion Power Equipment website.

FREE lifetime technical support from dedicated experts is included with your purchase.