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RYOBI RYI2322E

RYOBI 2300-WATT BLUETOOTH INVERTER GENERATOR

Model: RYI2322E

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Product Overview

The RYOBI Bluetooth 2,300-Watt ONE+ 18V Electric Start Inverter Generator (Model RYI2322E) provides clean, quiet power suitable for various applications, including tailgating, camping, and jobsite use. It delivers 2,300 starting watts and 1,800 running watts, making it safe for sensitive electronics. Key features include an 18V ONE+ electric start, Bluetooth connectivity for remote monitoring and control via the GENControl App, Idle-Down technology for fuel efficiency, and parallel capability for increased power output.



Figure 1: RYOBI 2300-Watt Bluetooth Inverter Generator, Model RYI2322E. This image shows the overall design of the generator, highlighting its compact form factor and control panel layout.

Key Features:

- **Integrated Bluetooth Technology:** Allows for remote monitoring of power consumption, fuel level, and runtime, and remote start/shutdown via the GENControl App.
- **18V ONE+ Electric Start:** Enables push-button starting using an included RYOBI ONE+ 18V battery.
- **Auto-Idle Technology:** Optimizes fuel efficiency and extends run time by adjusting engine speed to load.
- **Parallel Kit Capability:** Connect two RYOBI inverter generators for combined power output.
- **Clean Power Output:** Provides stable power suitable for sensitive electronics through 120V and USB outlets.
- **Portability:** Equipped with extended handles and rear wheels for easy transportation.

Important Safety Information

Read and understand all safety warnings and instructions before operating the generator. Failure to follow these instructions may result in electric shock, fire, serious injury, or death.

- **Carbon Monoxide Hazard:** Generators produce carbon monoxide, a colorless, odorless, poisonous gas. Operate the generator outdoors in a well-ventilated area, far from windows, doors, and vents. Never operate indoors or in enclosed spaces.
- **Fire Hazard:** Fuel 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.
- **Electrical Shock Hazard:** Do not operate the generator in wet conditions. Ensure all electrical connections are secure and dry. Use ground fault circuit interrupter (GFCI) protected outlets when operating in damp locations.
- **Hot Surfaces:** The generator's engine and muffler become very hot during operation and remain hot for a period after shutdown. Avoid contact with hot surfaces to prevent burns.
- **Children and Pets:** Keep children and pets away from the generator during operation.
- **Proper Grounding:** Ensure the generator is properly grounded before use to prevent electrical shock.

Components and Controls

Familiarize yourself with the various parts and controls of your RYOBI Inverter Generator.



Figure 2: Close-up view of the generator's control panel. This image details the display screen, power outlets, ON/OFF switch, Auto-Idle switch, USB ports, overload indicator, and circuit breaker.

- **Control Panel:** Contains the digital display, power outlets (120V AC, USB), ON/OFF switch, Auto-Idle switch, and circuit breaker.
- **Digital Display:** Shows fuel level, load percentage, runtime remaining, and Bluetooth connection status.
- **Fuel Cap:** For adding gasoline.
- **Oil Fill/Drain Plug:** For engine oil management.

- **Spark Plug:** Part of the ignition system.
- **Air Filter Cover:** Protects the air filter.
- **Battery Compartment:** Houses the 18V ONE+ battery for electric start.
- **Wheels and Handle:** For easy transport.

Setup and Preparation

Before first use, perform the following setup steps:

1. **Unpacking:** Carefully remove the generator and all accessories from the packaging. Inspect for any shipping damage.
2. **Add Engine Oil:** The generator is shipped without engine oil. Place the generator on a level surface. Remove the oil fill cap/dipstick. Slowly add the recommended type and amount of engine oil (refer to specifications for oil type and capacity). Do not overfill. Securely replace the cap.
3. **Add Fuel:** Ensure the generator is off and cool. Remove the fuel cap. Slowly add fresh, unleaded gasoline (minimum 87 octane) to the fuel tank. Do not fill above the red indicator line. Securely replace the fuel cap.
4. **Install 18V ONE+ Battery:** The generator includes an 18V ONE+ battery and charger for electric start. Charge the battery fully before first use. Open the battery compartment cover (*Figure 3*). Insert the charged 18V ONE+ battery into the battery port until it clicks into place. Close the cover.



Figure 3: A hand opening the battery compartment to install the 18V ONE+ battery for electric starting. Ensure the battery is fully charged before installation.

5. **Positioning:** Place the generator outdoors on a firm, level surface, at least 20 feet away from any buildings or combustible materials. Ensure adequate ventilation.
6. **Handle and Wheels Assembly (if not pre-assembled):** Attach the extended handle and wheels as per the included assembly instructions to facilitate easy transport (*Figure 4 & 5*).



Figure 4: Side view of the generator showing its integrated wheels and handle for portability.



Figure 5: Illustration of the generator's extending handle mechanism, designed for convenient transport.

Operating Instructions

Starting the Generator:

1. Ensure the generator has sufficient fuel and oil, and the 18V ONE+ battery is installed and charged.
2. Move the fuel valve to the "ON" position.
3. Turn the engine switch to the "ON" position.
4. Press and hold the electric start button until the engine starts. If the engine does not start, refer to the troubleshooting section.
5. Allow the generator to warm up for a few minutes before connecting electrical loads.

Connecting Electrical Devices:

- Ensure the total wattage of connected devices does not exceed the generator's running wattage (1,800 Watts).
- Plug devices directly into the 120V AC outlets or use appropriate extension cords.
- Use the 2.1A USB outlets for charging compatible USB devices.

Using the GENControl App (Bluetooth):

The GENControl App allows you to monitor and control your generator remotely via Bluetooth.

1. Download the RYOBI GENControl App from your smartphone's app store (Apple App Store or Google Play Store).

2. Ensure Bluetooth is enabled on your smartphone.
3. Open the app and follow the on-screen instructions to pair with your generator.
4. Once connected, you can view fuel level, load percentage, runtime remaining, and remotely start or shut down the generator (*Figure 6*).



Figure 6: A smartphone displaying the RYOBI GENControl App interface, showing fuel level, standby time, and engine status. This app allows for remote monitoring and control of the generator.

Idle-Down Technology:

The generator features Idle-Down technology to conserve fuel. When the load on the generator is low, the engine speed will automatically reduce. When more power is required, the engine speed will increase. This feature can be toggled ON/OFF via the switch on the control panel.

Parallel Operation:

For increased power output, two RYOBI inverter generators can be linked together using a compatible parallel kit (sold separately). Refer to the parallel kit's instructions for proper connection and operation.

Shutting Down the Generator:

1. Disconnect all electrical loads from the generator.
2. Turn the engine switch to the "OFF" position.

3. Turn the fuel valve to the "OFF" position.
4. Allow the generator to cool completely before storing.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your generator. Always disconnect the spark plug wire before performing any maintenance.

Maintenance Schedule:

Item	Frequency	Action
Engine Oil	First 5 hours, then every 50 hours or annually	Check level, change oil
Air Filter	Every 50 hours or annually (more often in dusty conditions)	Clean or replace
Spark Plug	Every 100 hours or annually	Inspect, clean, or replace
Fuel Filter	Annually or as needed	Inspect, replace if necessary
General Inspection	Before each use	Check for loose fasteners, fuel leaks, and general condition

For detailed instructions on specific maintenance procedures, refer to the complete owner's manual provided with your generator.

TROUBLESHOOTING

This section provides solutions to common operational issues. For problems not listed here, contact customer support.

Problem: Engine will not start.

Possible Causes & Solutions:

- *No fuel:* Add fresh gasoline.
- *Low oil:* Check oil level and add if necessary. The generator has a low-oil shutdown feature.
- *Spark plug issue:* Inspect spark plug; clean or replace if fouled or damaged.
- *Fuel valve or engine switch off:* Ensure both are in the "ON" position.
- *Dead 18V ONE+ battery (for electric start):* Recharge or replace the battery.
- *Choke not set correctly (if applicable):* Adjust choke as per starting procedure.

Problem: Generator runs but no power output.

Possible Causes & Solutions:

- *Circuit breaker tripped:* Reset the circuit breaker on the control panel.
- *Overload:* Reduce the total wattage of connected devices.
- *Faulty cord or device:* Test with a different device or cord.

Problem: Engine runs rough or stalls.

Possible Causes & Solutions:

- *Stale fuel:* Drain old fuel and refill with fresh gasoline.
- *Clogged air filter:* Clean or replace the air filter.
- *Spark plug issue:* Inspect, clean, or replace spark plug.

Problem: Bluetooth connection issues with GENControl App.

Possible Causes & Solutions:

- *Bluetooth not enabled:* Ensure Bluetooth is active on your smartphone.
- *App not updated:* Update the GENControl App to the latest version.
- *Out of range:* Move closer to the generator.
- *Interference:* Move away from other electronic devices that may cause interference.

Technical Specifications

Detailed specifications for the RYOBI 2300-Watt Bluetooth Inverter Generator.



Figure 7: Diagram illustrating the dimensions of the RYOBI Inverter Generator: 25 inches (L) x 13 inches (W) x 18 inches (H).

Attribute	Value
Brand	RYOBI
Model Number	RYI2322E
Starting Wattage	2300 Watts
Running Wattage	1800 Watts
Voltage	110 Volts
Fuel Type	Gasoline
Engine Type	4 Stroke
Tank Volume	1.2 Gallons
Item Weight	55 Pounds
Product Dimensions (L x W x H)	25" x 13" x 18"
Included Components	18V ONE+ Battery, Charger
Special Features	Bluetooth, Electric Start, Auto-Idle, Parallel Capable

Warranty and Support

For specific warranty details, including coverage period and terms, please refer to the warranty card included with your product or visit the official RYOBI website. Keep your purchase receipt as proof of purchase for warranty claims.

Customer Support:

If you require technical assistance, have questions about operation, or need to order replacement parts, please contact RYOBI customer support. Contact information can typically be found on the manufacturer's website or in the product documentation.

- **Online Resources:** Visit the official RYOBI website for FAQs, product manuals, and support forums.
- **Phone Support:** Refer to your product documentation for the customer service phone number.

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