

RYOBI RYi1030AVNM

RYOBI 18V ONE+ 1000W Automotive Power Source Instruction Manual

Model: RYi1030AVNM | **Brand:** RYOBI

1. INTRODUCTION

This instruction manual provides essential information for the safe and effective use of your RYOBI 18V ONE+ 1000W Automotive Power Source. Please read this manual thoroughly before operating the device and retain it for future reference. This power source offers versatile power options for various electronic devices and small appliances, utilizing 18V ONE+ batteries, a 12V car adaptor, or direct connection to a car battery.

2. IMPORTANT SAFETY INFORMATION

Always observe basic safety precautions when using electrical appliances to reduce the risk of fire, electric shock, and personal injury.

- Read all instructions before use.
- Do not expose the power source to rain or wet conditions.
- Ensure proper ventilation during operation to prevent overheating.
- Do not attempt to disassemble or modify the unit. Refer all servicing to qualified service personnel.
- Use only RYOBI 18V ONE+ batteries or approved 12V power sources.
- Avoid connecting appliances that exceed the inverter's rated output (1000W peak, 300W with 18V battery, 120W with 12V car adaptor).
- Keep children and unauthorized persons away from the operating area.
- Disconnect the power source from all power inputs when not in use or before cleaning.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- RYOBI 18V ONE+ 1000W Automotive Power Source (Model: RYi1030AVNM)
- (2) Alligator Clamps (for direct car battery connection)
- (1) CLA Adapter (12V Car Adaptor)
- Operator's Manual (this document)

Note: 18V ONE+ batteries are sold separately.

4. PRODUCT FEATURES AND COMPONENTS

Familiarize yourself with the various parts and functions of your RYOBI Automotive Power Source.



Figure 1: Overview of the RYOBI 18V ONE+ 1000W Automotive Power Source. The image displays the bright green and black unit, featuring two 120V AC outlets, two USB-A ports, one USB-C PD port, and a 12V DC car power port on the front panel. To the left, red and black alligator clamps are visible, used for direct connection to a car battery. To the right, a 12V car adaptor is shown connected to the unit's input. The top panel includes the RYOBI branding and power ratings.

- **Dual Power Technology:** Operates with an 18V ONE+ battery or from a vehicle's 12V power source.
- **Multiple Outlets:** Includes (2) 120V AC outlets, (2) USB-A ports, (1) USB-C PD port, and (1) 12V Car Power Port.
- **Power Output:** Up to 1000 Watts (peak) when connected directly to a car battery, 300 Watts with an 18V ONE+ battery, and 120 Watts with the 12V car adaptor.
- **LCD Screen:** Displays battery levels, input voltage, power source, and power output.
- **Integrated Alligator Clamps and CLA Adapter:** For flexible power input options.

5. SETUP AND CONNECTIONS

Before operating the power source, ensure it is properly connected to a power input.

5.1. Powering Options

The RYOBI Automotive Power Source offers three ways to receive power:

1. Using an 18V ONE+ Battery:

Insert a fully charged RYOBI 18V ONE+ battery into the battery port on the side of the unit. Ensure the battery clicks securely into place. This method provides up to 300 Watts of continuous output.

2. Using the 12V Car Adaptor (CLA Adapter):

Connect the CLA Adapter cable to the 12V input port on the power source. Plug the other end of the CLA Adapter into your vehicle's 12V power outlet (cigarette lighter socket). This method provides up to 120 Watts of continuous output.

3. Using Car Battery Clamps:

For maximum output (up to 1000 Watts), connect the red alligator clamp to the positive (+) terminal of your vehicle's 12V battery and the black alligator clamp to the negative (-) terminal. Then, connect the other end of the clamp cable to the designated input port on the power source. Ensure connections are secure and correct polarity is observed to prevent damage.

Caution: Always ensure the power source is turned off before connecting or disconnecting any power input.

6. OPERATING INSTRUCTIONS

Follow these steps to operate your RYOBI Automotive Power Source.

6.1. Turning On/Off

1. **To Turn On:** Once a power input (battery, 12V adaptor, or car battery clamps) is connected, press the main power button located on the top panel. The LCD screen will illuminate, indicating the unit is active.
2. **To Turn Off:** Press and hold the main power button until the LCD screen turns off. Disconnect all connected devices and power inputs when not in use.

6.2. Using AC Outlets

The power source features two 120V AC outlets for standard electrical devices.

- Plug your AC-powered device into one of the 120V AC outlets.
- Ensure the total wattage of connected devices does not exceed the inverter's capacity for the chosen power input (e.g., 300W for 18V battery, 120W for 12V adaptor, 1000W for car battery clamps).

6.3. Using USB Ports

The unit includes two USB-A ports and one USB-C PD port for charging mobile devices.

- Connect your USB charging cable to the appropriate USB-A or USB-C port.
- Plug the other end into your device. The power source will automatically begin charging.

6.4. Using the 12V Car Power Port

A 12V Car Power Port is available for devices that use a standard 12V automotive plug.

- Insert your 12V device's plug into the 12V DC outlet.
- Ensure the device's power requirements do not exceed the port's rating.

6.5. LCD Screen Information

The integrated LCD screen provides real-time operational data:

- **Battery Level:** Indicates the remaining charge of the connected 18V ONE+ battery.
- **Input Voltage:** Shows the voltage from the connected power source (e.g., 12V from car).
- **Power Source Indicator:** Displays which power input is currently active.
- **Power Output:** Shows the current wattage being drawn by connected devices.

7. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your power source.

- **Cleaning:** Use a soft, damp cloth to clean the exterior of the unit. Do not use harsh chemicals or abrasive cleaners. Ensure all ports are free of dust and debris.
- **Storage:** Store the power source in a cool, dry place away from direct sunlight and extreme temperatures. If using an 18V ONE+ battery, remove it before long-term storage.
- **Battery Care:** Follow the manufacturer’s instructions for charging and storing RYOBI 18V ONE+ batteries.

8. TROUBLESHOOTING

Refer to the table below for common issues and their solutions.

Problem	Possible Cause	Solution
Unit does not turn on.	No power input; battery depleted; loose connection.	Ensure battery is charged and properly inserted. Check 12V adaptor or car battery clamp connections.
No output from AC outlets.	Overload; device not compatible; unit in fault mode.	Reduce connected load. Check device power requirements. Turn unit off and on again.
LCD screen not displaying correctly.	Minor glitch; low power.	Turn the unit off and restart. Ensure adequate power input.
Unit shuts down unexpectedly.	Overload; overheating; low battery voltage.	Reduce load. Allow unit to cool down. Recharge or replace battery. Check car battery voltage.

If troubleshooting steps do not resolve the issue, contact RYOBI customer support.

9. SPECIFICATIONS

- **Model Number:** RYi1030AVNM
- **Brand:** RYOBI
- **Input Voltage:** 12 Volts (from vehicle)
- **Output Voltage:** 120 Volts (AC)
- **Max Output (Car Battery):** 1000 Watts (Peak)
- **Continuous Output (18V ONE+ Battery):** 300 Watts
- **Continuous Output (12V Car Adaptor):** 120 Watts
- **USB-A Ports:** (2) 5V, 2.4A
- **USB-C PD Port:** (1) 20W
- **12V Car Power Port:** (1)
- **Item Weight:** 6 pounds
- **Package Dimensions:** 11.14 x 9.25 x 6.42 inches
- **UPC:** 046396035394

10. WARRANTY INFORMATION

The RYOBI 18V ONE+ 1000W Automotive Power Source is backed by a **3-year limited warranty**. This warranty

covers defects in material and workmanship from the date of purchase. For specific terms, conditions, and limitations, please refer to the warranty card included with your product or visit the official RYOBI website.

What is Covered: Repair or replacement of defective parts or products.

What is Not Covered: Damage due to misuse, abuse, normal wear and tear, unauthorized repairs, or failure to follow instructions.

11. CUSTOMER SUPPORT

For technical assistance, warranty claims, or to purchase replacement parts, please contact RYOBI customer support through their official website or the contact information provided in your product packaging.

Online Resources: Visit the official RYOBI website for FAQs, product registration, and additional support materials.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question