RYOBI P107

RYOBI P107 One+ 18 Volt Compact Lithium Ion Battery User Manual

Model: P107

1. Introduction

This manual provides essential instructions for the safe and effective use of your RYOBI P107 One+ 18 Volt Compact Lithium Ion Battery. This battery is designed to power a wide range of RYOBI One+ 18V tools, offering reliable and fade-free performance.



Figure 1.1: RYOBI P107 One+ 18 Volt Compact Lithium Ion Battery

The RYOBI P107 battery features a compact design, making it suitable for use in tight spaces and reducing user fatigue during extended operation. It incorporates an onboard fuel gauge to monitor charge status and is engineered to operate effectively in various conditions, including temperatures as low as 14 degrees Fahrenheit (-10 degrees Celsius).

2. Safety Information

Read and understand all safety warnings and instructions before using this battery. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

- **Do Not Open, Crush, or Incinerate:** The battery contains internal components that can be hazardous if exposed. Do not attempt to open, crush, or incinerate the battery.
- **Temperature Limits:** Do not expose the battery to temperatures above 40°C (104°F). High temperatures can cause an explosion or leakage of flammable liquid or gas.
- **Avoid Short Circuits:** Do not short-circuit the battery terminals. This can cause burns or fire.
- **Remove from Tool:** Always remove the battery from the tool when storing, changing attachments, or making adjustments to the tool.
- **Use Compatible Charger:** Only use the battery with the charger specified by the manufacturer. Using an

incompatible charger may create a risk of fire.

- **Proper Disposal:** Dispose of batteries responsibly. Do not dispose of batteries in household waste or fire. Follow local regulations for recycling lithium-ion batteries.



Figure 2.1: Back view of RYOBI P107 battery showing warning labels and model information

3. Setup

3.1 Charging the Battery

Before first use, fully charge the battery. Use only RYOBI One+ 18V compatible chargers. Refer to your charger's instruction manual for specific charging procedures.

1. Ensure the battery is clean and dry before placing it into the charger.
2. Align the battery with the charger's terminals and slide it into place until it clicks securely.
3. The charger's indicator lights will show the charging status.
4. Once fully charged, remove the battery from the charger.

3.2 Installing the Battery into a Tool

The P107 battery is compatible with all RYOBI One+ 18V tools.

1. Ensure the tool is turned off and any moving parts have come to a complete stop.
2. Align the battery with the battery port on the tool.
3. Slide the battery into the tool until it clicks firmly into place. Ensure it is fully seated to prevent accidental dislodgement during operation.
4. To remove, press the release latches on the sides of the battery and slide it out of the tool.



Figure 3.1: Top view indicating compatibility with various RYOBI One+ tools

4. Operating Instructions

4.1 Powering Your Tools

Once installed, the P107 battery provides 18 volts of power to your RYOBI One+ tool. This Lithium Ion battery delivers fade-free power, meaning it maintains full performance until the charge is depleted.

4.2 Using the Fuel Gauge

The P107 battery is equipped with an onboard LED fuel gauge to indicate the remaining charge. To check the charge level:

1. Press the button located next to the LED indicators on the front of the battery.
2. The LEDs will illuminate to show the approximate charge level:
    - **Four lights:** Full charge
    - **Three lights:** Approximately 75% charge
    - **Two lights:** Approximately 50% charge
    - **One light:** Low charge, recharge soon



Figure 4.1: Front view displaying the LED fuel gauge and activation button

5. Maintenance

5.1 Storage

For optimal battery life and safety:

- Store the battery in a cool, dry place, away from direct sunlight and moisture.
- Avoid storing the battery in extreme temperatures (above 40°C or below -10°C).
- Always remove the battery from the tool before storing.
- For long-term storage, it is recommended to store the battery with a partial charge (around 50%).

5.2 Cleaning

Keep the battery terminals clean and free of debris. Use a clean, dry cloth to wipe the battery. Do not use water or chemical cleaners.

6. Troubleshooting

If you encounter issues with your RYOBI P107 battery, consider the following:

Problem	Possible Cause	Solution
Battery not charging	Battery not properly seated in charger; charger malfunction; battery too hot/cold; battery defect.	Ensure battery is fully seated. Check charger indicator lights. Allow battery to reach room temperature. Try a different compatible charger. If issue persists, battery may be defective.
Tool not operating with battery	Battery not fully charged; battery not properly installed in tool; tool malfunction; battery defect.	Check battery fuel gauge and charge if necessary. Ensure battery is fully seated in the tool. Test battery with another compatible tool. If issue persists, battery or tool may be defective.
Reduced run time	Battery nearing end of life; extreme operating conditions.	Consider replacing the battery if it consistently provides significantly reduced run time. Avoid operating in extreme temperatures when possible.

7. Specifications

- **Model:** P107
- **Battery Type:** Lithium Ion
- **Voltage:** 18 Volts
- **Capacity:** 1.5 Ah (Amp Hours) / 28 Wh
- **Item Weight:** Approximately 14.1 ounces (0.4 kg)
- **Product Dimensions:** Approximately 5 x 3 x 4 inches (12.7 x 7.6 x 10.2 cm)
- **Operating Temperature Range:** 14°F to 104°F (-10°C to 40°C)
- **Compatibility:** RYOBI One+ 18V tools

8. Warranty and Support

For warranty information or technical support regarding your RYOBI P107 battery, please refer to the warranty card included with your purchase or visit the official RYOBI website. Contact customer service for assistance with product registration, troubleshooting, or replacement parts.

Online Support: www.ryobitools.com/support