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## Palowextra BRR 2P4S 5200S

# Palowextra BRR 2P4S 5200S Replacement Battery User Manual

For Roborock and Xiaomi Mijia Robot Vacuums

## 1. Introduction

This manual provides essential information for the safe and effective use of your Palowextra BRR 2P4S 5200S replacement battery. This high-capacity 14.4V, 6700mAh lithium-ion battery is designed to restore optimal performance to compatible robot vacuum cleaners. Please read these instructions carefully before installation and use.




Image 1.1: Palowextra 6700mAh High Capacity Replacement Battery shown with a robot vacuum. This image illustrates the product's high capacity and compatibility.

## 2. Compatibility

The Palowextra BRR 2P4S 5200S replacement battery is compatible with a wide range of robot vacuum models. Verify your vacuum's model number against the list below to ensure proper fit and function.

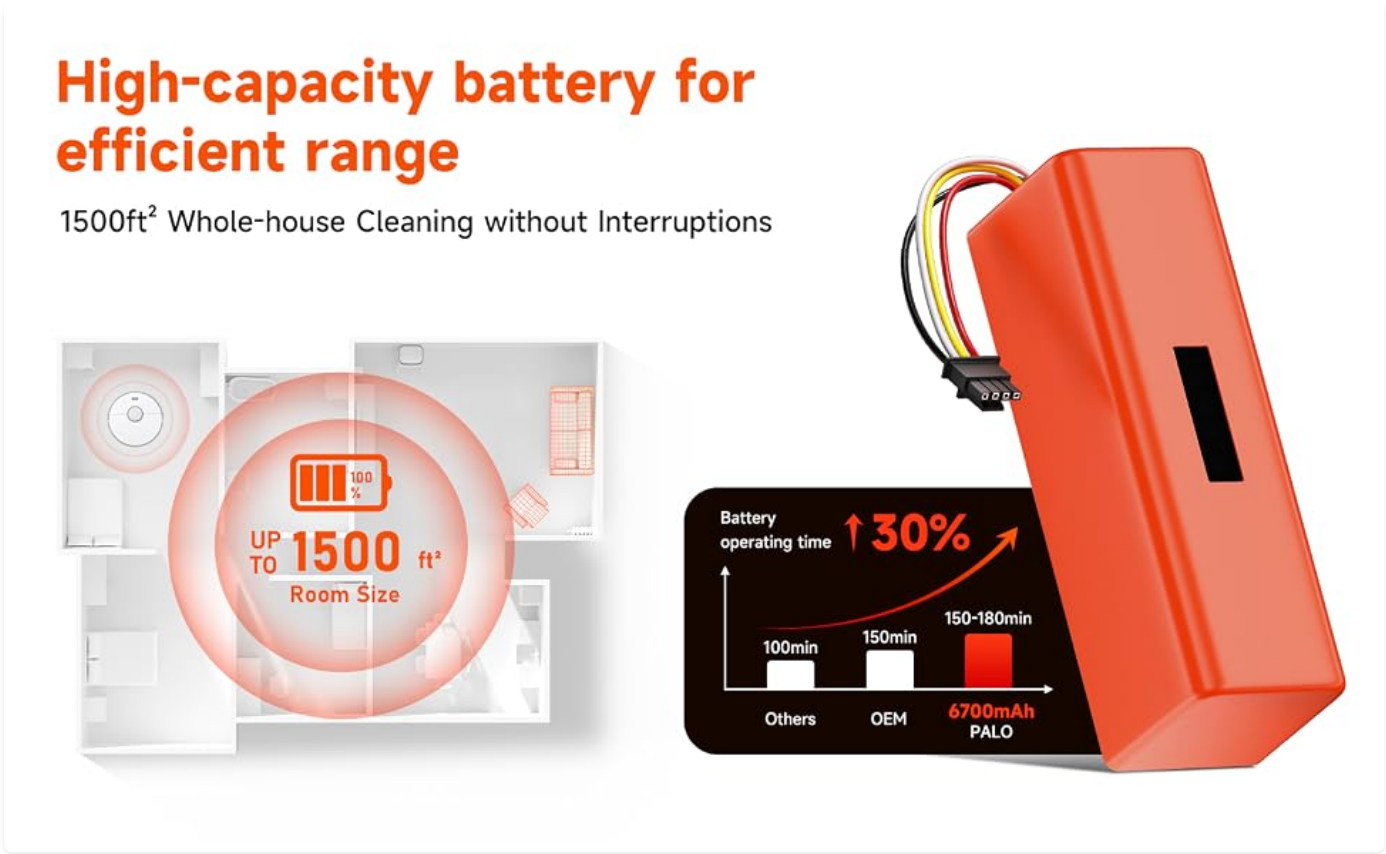



Image 2.1: Visual compatibility chart displaying various Roborock and Xiaomi Mijia robot vacuum models.

### Compatible Models:

- **Roborock S Series:** S4, S4 Max, S5, S5 Max, S6, S6 Pure, S6 MaxV, S7, S7 Max, S7 MaxV, S7 MaxV Ultra, S8, S8 Plus, S8 Pro Ultra
- **Roborock Q Series:** Q5, Q5+, Q5 Max, Q5 Max+, Q7, Q7 Max, Q7 Max+, Q8, Q8 Max, Q8 Max+
- **Roborock S50/S60/T Series:** S50, S51, S52, S53, S55, S60, T4, T6, T60, T65
- **Xiaomi Mijia Series:** 1st Generation, 2nd Generation, 1s, E4, E5, E20, E25, E35, C10
- **Xiaowa Series:** C10, E4, E5, E20, E25, E35, E351-01

## 3. Specifications

Understanding the technical specifications of your replacement battery is crucial for optimal performance and safety.




Image 3.1: Detailed product parameters for the Palowextra BRR 2P4S 5200S battery.

| Feature | Specification |
|---|---|
| Model Number | BRR 2P4S 5200S |
| Rated Voltage | 14.4V |
| Battery Capacity | 6700mAh |
| Battery Type | Lithium Ion |
| Battery Plug | 4 Prongs Connector |
| Working Temperature | -10° to 50°C (14° to 122°F) |
| Weight | 418g |
| Dimensions (L x W x H) | 5.39 inches x 1.77 inches x 1.69 inches |

## 4. Safety Information and Protections

Your Palowextra replacement battery is equipped with multiple protection features to ensure safe operation and longevity. Adhere to all safety guidelines to prevent damage or injury.




Image 4.1: Diagram illustrating the multi-protection features integrated into the battery.

### Integrated Protection Features:

- **Over-Charging Protection:** Prevents damage from excessive charging.
- **Over-Discharging Protection:** Protects the battery from being drained too low.
- **Short Circuit Protection:** Automatically cuts off power in case of a short circuit.
- **Over-Current Protection:** Safeguards against excessive current flow.
- **Over-Heating Protection:** Monitors and regulates battery temperature.
- **Low-High Temperature Test:** Ensures performance across various temperatures.
- **Impact Test:** Verifies structural integrity against physical shocks.
- **Vibration Test:** Confirms stability under vibrational stress.

**General Safety Precautions:**

- Do not disassemble, puncture, or modify the battery.
- Avoid exposing the battery to extreme temperatures, direct sunlight, or fire.
- Keep the battery away from water or other liquids.
- Dispose of old batteries according to local regulations for lithium-ion batteries.

## 5. Setup and Installation

Replacing your robot vacuum's battery is a straightforward process. The package includes a screwdriver and a cleaning brush to assist with installation.



Image 5.1: The Palowextra replacement battery, showing its 4-prong connector, along with the included screwdriver and cleaning brush.

### Installation Steps:

1. **Power Off:** Ensure your robot vacuum is completely powered off and disconnected from its charging dock.
2. **Access Battery Compartment:** Carefully flip the robot vacuum over. Locate the battery compartment cover, typically secured by screws. Use the provided screwdriver to remove these screws.
3. **Remove Old Battery:** Gently lift the old battery out of its compartment. Disconnect the battery plug from the vacuum's port.
4. **Install New Battery:** Connect the new Palowextra battery's 4-prong connector to the corresponding port in the vacuum. Ensure the connection is secure.
5. **Position Battery:** Place the new battery into the compartment, ensuring it fits snugly without forcing.
6. **Secure Cover:** Replace the battery compartment cover and secure it with the screws.
7. **Initial Charge:** Place the robot vacuum back on its charging dock and allow it to fully charge before its first use. This initial charge helps calibrate the new battery.

**Note:** If you encounter any difficulty, refer to your robot vacuum's original user manual for specific battery compartment access instructions.

## 6. Operation

After successful installation and initial charging, your robot vacuum is ready for operation with its new Palowextra battery.

### First Use and Charging:

- **Full Charge:** For optimal battery life, it is recommended to fully charge the battery before its first cleaning cycle.
- **Normal Operation:** The robot vacuum will operate as usual, returning to its charging dock when the battery is low.
- **Extended Runtime:** The 6700mAh capacity provides an extended runtime, allowing for cleaning of larger areas up to 1500 sq ft without interruption.




Image 6.1: Illustration of the high-capacity battery providing efficient range and extended runtime for whole-house cleaning.

## 7. Maintenance

Proper maintenance can significantly extend the lifespan and performance of your Palowextra replacement battery.

### Battery Care Tips:

- **Regular Charging:** Keep the robot vacuum on its charging dock when not in use to maintain battery health.
- **Avoid Deep Discharges:** While the battery has over-discharge protection, consistently running the battery to 0% before recharging can reduce its overall lifespan.
- **Temperature Control:** Operate and store the battery within the recommended temperature range (-10°C to 50°C) to prevent degradation.
- **Clean Contacts:** Periodically clean the charging contacts on both the vacuum and the charging dock to ensure efficient power transfer.
- **Long-Term Storage:** If storing the vacuum for an extended period, charge the battery to approximately 50-60% and store it in a cool, dry place. Recharge every 3-6 months to prevent deep discharge.

## 8. Troubleshooting

If you encounter issues with your new battery, consider the following common troubleshooting steps:

- **Vacuum Not Charging:**
  - Ensure the battery is correctly installed and the connector is firmly seated.
  - Check that the charging dock is powered and its contacts are clean.
  - Verify the vacuum is properly aligned with the charging dock.
- **Reduced Runtime:**
  - Allow several full charge/discharge cycles for the battery to reach its optimal performance.
  - Ensure the vacuum's filters and brushes are clean, as blockages can increase power consumption.
  - Confirm the battery is operating within the recommended temperature range.
- **Error Messages:**
  - Refer to your robot vacuum's original manual for specific error code meanings.
  - A common error for replacement batteries can be related to improper installation or a faulty connection. Re-install the battery carefully.
- **Battery Not Recognized:**
  - Double-check the compatibility list to ensure the battery is correct for your model.
  - Ensure the 4-prong connector is fully inserted and not bent.

If issues persist after following these steps, please contact Palowextra customer service for further assistance.

## 9. Warranty and Customer Support

Palowextra is committed to providing high-quality products and excellent customer service.



Image 9.1: Overview of Palowextra's after-sale service, including refund, warranty, and customer support.

## Warranty Information:

- **90 Days Refund or Replacement:** If you are not satisfied with your purchase within 90 days, you may be eligible for a refund or replacement.
- **365 Days Warranty:** The battery is covered by a 365-day warranty against manufacturing defects.

## Customer Service:

For any product issues, questions, or warranty claims, please contact our customer service team. We aim to provide a response within 24 hours.
**Contact Method:** Please refer to your purchase platform (e.g., Amazon) for the most direct way to contact Palowextra customer support.


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