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RDSJ 18650-BAK

RDSJ 3400mAh Replacement Battery User Manual

For iHome AutoVac Robot Vacuum Cleaners (Models: iHRV10Y-BLK, iHRV11-BLK, iHRV12-BLK, iHRVS1PRO-3BLK)

1. Product Overview

This document provides essential information for the safe and effective use of your RDSJ 3400mAh Li-ion replacement battery. This battery is designed to provide reliable power for compatible iHome AutoVac robot vacuum cleaners.

Key Features:

- **Battery Type:** Li-ion
- **Voltage:** 14.4V / 14.8V
- **Capacity:** 3400mAh / 48.96Wh
- **Cells:** 4-Cell configuration
- **Built-in Protections:** Over-temperature, overheating, anti-overcharge, over-discharge, over-current, short-circuit, and over-voltage protection.

Compatible Robot Vacuum Models:

- iHome Autovac Eclipse Homemap Navigation iHRV10Y-BLK
- iHome AutoVac Eclipse Pro iHRV11-BLK
- iHome Autovac Luna iHRV12-BLK
- iHome AutoVac Nova S1 Pro iHRVS1PRO-3BLK



Figure 1: Compatible iHome AutoVac Robot Vacuum Cleaners.

2. Safety Information

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

General Warnings:

- **Do not disassemble, crush, puncture, or short external contacts.**
- **Risk of fire or burns.**
- Use only with a special charger at room temperature 50-104°F (10-40°C).
- Do not allow metal objects to contact battery terminals.
- Store in a dry location only.
- May explode if disposed of in fire.
- For safe operation, carefully read your vacuum cleaner's user manual.



Figure 2: Battery Warning Label.



Figure 3: Battery Caution Label.

3. Installation Guide

This replacement battery is designed for easy installation, typically taking around 2 minutes. Always ensure your robot vacuum is powered off and unplugged before beginning installation.

Before Installation:

- Ensure the robot vacuum is turned off and disconnected from its charging base or power adapter.
- Locate the battery compartment on your iHome AutoVac robot vacuum. Refer to your vacuum's original user manual if needed.
- Confirm that the connector type on the new battery matches your original battery.



Figure 4: Battery Connector Detail.

Installation Steps:

1. **Access Battery Compartment:** Open the battery compartment cover on your robot vacuum. This usually involves unscrewing a few screws or releasing latches.
2. **Remove Old Battery:** Carefully disconnect the old battery's connector from the vacuum's port. Lift out the old battery.
3. **Insert New Battery:** Place the new RDSJ replacement battery into the compartment, ensuring it fits snugly.
4. **Connect New Battery:** Align the new battery's connector with the vacuum's port and push firmly until it clicks into place. Ensure a secure connection.
5. **Close Compartment:** Replace the battery compartment cover and secure it with screws or latches.
6. **Initial Charge:** Place the robot vacuum back on its charging base to initiate the first charge.

4. Operation

Charging:

- The lithium-ion battery supports fast charging, allowing for a quick recharge time.
- Always charge the battery using the original charging base or power adapter provided with your iHome AutoVac robot vacuum.
- Ensure the vacuum is properly docked or connected to the charger. The charging indicator on your vacuum will typically show its charging status.

Usage:

- Once fully charged, your robot vacuum is ready for operation.
- Follow your iHome AutoVac's original instructions for scheduling cleaning cycles and operating modes.
- The 3400mAh capacity provides extended runtime for efficient cleaning.

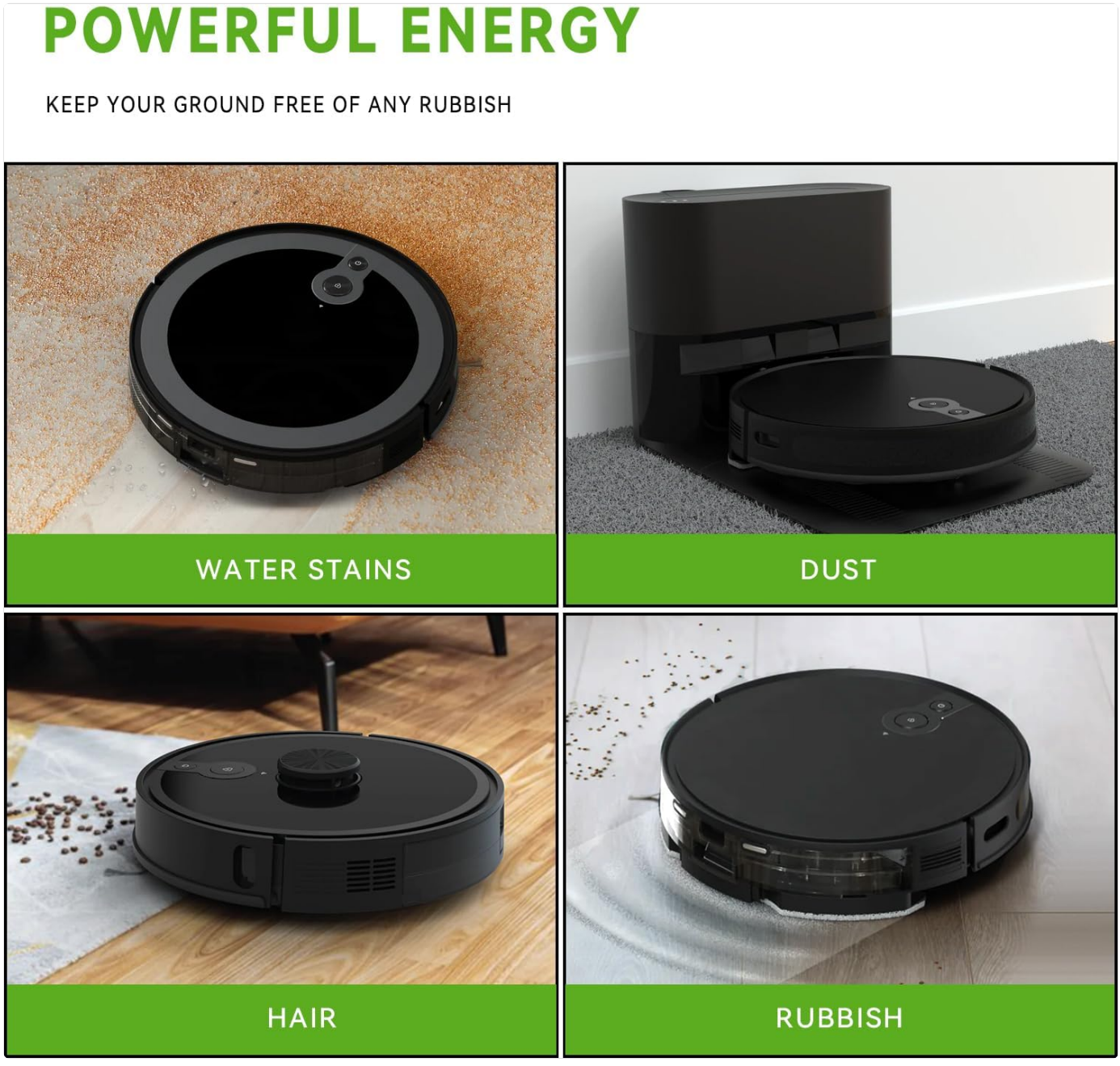


Figure 5: Robot Vacuum in Operation.

5. Maintenance

Proper maintenance extends the life of your battery and ensures optimal performance of your robot vacuum.

- **Regular Charging:** For optimal battery health, avoid letting the battery completely discharge for extended periods. Lithium batteries can become inoperative if fully discharged.
- **Storage:** If the vacuum will not be used for a long time, store it with a partial charge (around 50-80%) in a cool, dry place. Recharge every few months to prevent deep discharge.
- **Temperature:** Operate and store the battery within the recommended temperature range (50-104°F / 10-40°C) to prevent damage and ensure safety.
- **Cleaning:** Keep the battery and its contacts clean and free from dust or debris.



Figure 6: Battery Multiple Protection Features.

6. Troubleshooting

If you encounter issues with your replacement battery, consider the following common problems and solutions:

- **Battery Not Charging:**
  - Ensure the battery is correctly installed and its connector is securely plugged in.
  - Verify that the charging base or power adapter is functioning correctly and the vacuum is properly docked.
  - Check for any debris on the charging contacts of both the vacuum and the charging base.

- **Short Run Time:**
  - Ensure the battery is fully charged before use.
  - Over time, all batteries experience degradation. If the battery is old, its capacity may naturally decrease.
  - Verify that the vacuum cleaner itself is not experiencing other issues that might draw excessive power.
- **Vacuum Not Powering On:**
  - Confirm the battery is installed correctly and fully charged.
  - Check the vacuum's power switch.
  - If the issue persists, consult your iHome AutoVac's original user manual for vacuum-specific troubleshooting.

7. Specifications

Specification	Value
Battery Type	Li-ion
Voltage	14.4V / 14.8V
Capacity	3400mAh / 48.96Wh
Cells	4-Cell
Model Number (Battery)	18650-BAK
Package Dimensions	3.15 x 2.36 x 1.97 inches
Item Weight	7.8 ounces
Manufacturer	RDSJ
Date First Available	November 29, 2024

8. Warranty and Support

For warranty information or technical support regarding your RDSJ replacement battery, please contact the manufacturer directly through the retailer where the product was purchased. Keep your purchase receipt as proof of purchase.

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