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APC RBC43

APC RBC43 UPS Battery Replacement Cartridge Instruction Manual

For Smart-UPS Models SMT2200RM2U, SMT2200RM2UC, SMT2200RM2UNC, SMT3000RM2U, SMT3000RM2UC, SUA2200RM2U, SUA3000RM2U, SUM1500RMXL2U, SUM3000RMXL2U, and others.

INTRODUCTION

This manual provides essential instructions for the safe and effective installation, operation, and maintenance of your APC RBC43 UPS Battery Replacement Cartridge. The APC RBC43 is designed for full compatibility with your APC UPS, ensuring optimal performance and reliability. Each APC Replacement Battery Cartridge (RBC) is rigorously tested and certified to restore your APC UPS to its original specifications. This VRLA battery comes with a 2-year manufacturer warranty.



Image: The APC RBC43 UPS Battery Replacement Cartridge, shown with its metallic enclosure.

IMPORTANT SAFETY INFORMATION

Please read and understand all safety instructions before handling or installing the battery cartridge. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Battery Type:** This is a Sealed, Non-Spillable Lead Acid Battery.
- **Recycling:** Batteries must be recycled. Refer to the user's manual for battery recycling information. Do not dispose of in regular waste.
- **Charging:** Do not charge in a gas-tight container.
- **Terminals:** Do not short battery terminals.
- **Incineration:** Do not incinerate the battery.
- **Electrolyte Contact:** If contaminated with electrolyte (acid), flush with water at once.
- **Genuine Parts:** For best performance and warranty support, use only genuine APC replacement batteries with your APC UPS. Use of non-APC RBC™ battery cartridges may result in lower UPS performance, damage to the UPS, create a hazardous condition, or void UL, CSA, VDE, and other safety certifications on the UPS.

WHAT'S IN THE BOX

Your APC RBC43 package should contain the following items:

- UPS Battery Cartridge
- All Required Connectors
- Battery Recycling Guide
- Metallic Battery Tray or Enclosure
- Reusable Packaging
- Installation Guide

INSTALLATION INSTRUCTIONS

Follow these steps to safely replace the battery cartridge in your APC UPS. The RBC43 is compatible with many APC models including SMT2200RM2U, SMT200RM2UC, SMT3000RM2U, SMT2200RM2UNC, SMT2200US, SMT3000RM2UC, SMT3000RM2UNC, SMT3000US, SUA2200RM2U, SUA2200RM2US, SUA3000RM2U, SUA3000RMT2U, SUA3000RMUS, SUM3000RMXL2U, SUM1500RMXL2U, SUM3000RMXL2U and select others.

Video Guide: RBC43 Battery Installation

Your browser does not support the video tag.

Video: A detailed guide demonstrating the easy battery switch process for the APC RBC43 UPS battery. This video covers unboxing, identifying the old battery, removing it, and installing the new RBC43 cartridge.

Step-by-Step Installation

Refer to the following instructions for a successful installation.



Image: The APC RBC43 battery module, ready for installation into a compatible UPS unit.

1. **Prepare the UPS:** Ensure the UPS is powered off and disconnected from the main power source. If hot-swapping, ensure the UPS supports this feature and follow specific hot-swap procedures.
2. **Access the Battery Compartment:** Open the front panel or access door of your UPS to expose the battery compartment.
3. **Disconnect Old Battery:** Carefully disconnect the battery cables from the old battery cartridge. Note the orientation of the connectors (usually color-coded).
4. **Remove Old Battery:** Slide the old battery cartridge out of the UPS unit. Be aware that the battery is heavy (approximately 42 pounds or 18-32 kg).
5. **Prepare New Battery:** Unpack the new APC RBC43 battery cartridge.
6. **Insert New Battery:** Carefully slide the new RBC43 cartridge into the UPS compartment, ensuring it is fully seated.
7. **Connect New Battery:** Reconnect the battery cables to the new cartridge, matching the color coding or previous orientation.
8. **Secure Battery:** Close and secure the battery compartment door or front panel.
9. **Power On UPS:** Reconnect the UPS to the main power source and power it on.
10. **Reset Battery Constant (if applicable):** Some UPS models require resetting the battery constant after replacement to ensure accurate runtime reporting. Refer to your specific UPS model's manual for this procedure.

OPERATING INSTRUCTIONS

Once installed, your APC RBC43 battery will integrate with your UPS to provide reliable backup power. The UPS will automatically manage charging and discharge cycles.

- **Initial Charge:** Allow the new battery to charge for at least 24 hours to reach full capacity before relying on it for extended backup.
- **Runtime:** The UPS will display the estimated runtime based on the connected load and battery charge level. Genuine APC batteries ensure accurate runtime reporting.
- **Self-Test:** Periodically perform a UPS self-test to verify battery health and functionality. Refer to your UPS manual for instructions on initiating a self-test.

Why Choose Genuine APC Batteries

Your browser does not support the video tag.

Video: This video highlights the benefits of using genuine APC replacement batteries, emphasizing reliability, compatibility, and proper recycling options compared to generic alternatives.

MAINTENANCE

The APC RBC43 is a maintenance-free battery. However, proper care and recycling are crucial for its lifespan and environmental responsibility.

- **Environmental Conditions:** Operate the UPS within recommended temperature and humidity ranges to maximize battery life.
- **Recycling Old Batteries:** When you replace your RBC, it is essential to recycle the old battery responsibly. APC offers an "RBC Recycling Program" on their website, which includes free return to a recycling center. Use the packaging from your new battery to return the old one.

TROUBLESHOOTING

If you encounter issues after battery replacement, consider the following common scenarios:

- **"Battery Near End of Life" Warning Persists:**
 - Ensure the new battery is correctly installed and all connections are secure.
 - Verify that the battery constant has been reset in the UPS (if required for your model).
 - Allow the battery to fully charge for 24 hours. If the warning persists, contact APC support.
- **UPS Not Providing Expected Runtime:**
 - Confirm the battery has completed its initial charge cycle.
 - Check the total load connected to the UPS; excessive load will reduce runtime.
 - Perform a manual calibration if your UPS model supports it, to re-learn the battery's capacity.
- **Battery Not Charging:**
 - Ensure the UPS is connected to a live power outlet.
 - Check all battery connections within the UPS.
 - If the issue persists, the UPS charging circuit may require service.

SPECIFICATIONS

APC RBC43 Battery Replacement Cartridge Specifications

Feature	Detail
Model Number	RBC43
Product Dimensions	1.1 x 9.7 x 6.5 inches
Item Weight	42 pounds (18-32 kg)
Battery Type	Sealed Lead-Acid (VRLA)
Batteries Required	1 Product Specific battery required (cartridge contains multiple cells)
Manufacturer	APC

Feature	Detail
Compatibility	SMT2200RM2U, SMT2200RM2UC, SMT2200RM2UNC, SMT3000RM2U, SMT3000RM2UC, SUA2200RM2U, SUA2200RM2US, SUA3000RM2U, SUA3000RMT2U, SUA3000RMUS, SUM3000RMXL2U, SUM1500RMXL2U, SUM3000RMXL2U and select others.

WARRANTY AND SUPPORT

Genuine APC Batteries are backed by a **2-year Manufacturer Warranty**. For warranty claims, technical support, or further assistance, please visit the official APC website or contact their customer service.

APC Website: www.apc.com