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APC RBC6

APC RBC6 UPS Battery Replacement Manual

Model: **RBC6** | Brand: **APC**

INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of your APC Replacement Battery Cartridge (RBC6). The RBC6 is specifically designed for complete compatibility with various APC Uninterruptible Power Supply (UPS) models, including SMT1000, SMT1000I, SMT1000US, SMT1000ICH, SMT1000TW, SUA1000ICH-45, SMC1500, and SMC1500I. Using genuine APC replacement batteries ensures optimal performance and maintains your UPS's original specifications and warranty. The RBC6 is a Valve Regulated Lead Acid (VRLA) battery, engineered for reliability and longevity.



Image: The APC RBC6 Replacement Battery Cartridge, a black rectangular battery with APC branding and warning labels.

SETUP INSTRUCTIONS

Follow these steps to safely replace the battery in your APC UPS unit. Always refer to your specific UPS model's user manual for detailed instructions on accessing the battery compartment.

1. **Safety First:** Before beginning, ensure the UPS is turned off and disconnected from the main power supply. Disconnect all connected equipment from the UPS.
2. **Locate Battery Compartment:** Identify and open the battery compartment on your APC UPS. This usually involves removing a front panel or cover.
3. **Remove Old Battery:** Carefully disconnect the battery terminals (usually red for positive, black for negative). Note their orientation. Slide out the old battery cartridge. Be aware that batteries can be heavy.
4. **Inspect New Battery:** Unpack the new APC RBC6 cartridge. Inspect it for any visible damage.
5. **Install New Battery:** Slide the new RBC6 cartridge into the battery compartment. Connect the battery terminals, ensuring correct polarity (red to red, black to black).
6. **Secure Compartment:** Close and secure the battery compartment cover.
7. **Initial Charge:** Reconnect the UPS to the main power supply and turn it on. Allow the new battery to charge for at least 24 hours without any load connected to ensure it reaches full capacity.
8. **Calibration (Recommended):** After the initial charge, perform a runtime calibration if your UPS model supports it. Refer to your UPS manual for calibration procedures. This helps the UPS accurately report battery runtime.

Important: Only use genuine APC replacement batteries to ensure compatibility, optimal performance, and to maintain your UPS warranty.

OPERATING INSTRUCTIONS

Once the RBC6 battery is installed and fully charged, your APC UPS will operate as designed. The battery provides backup power during outages and protects connected equipment from power fluctuations.

- **Power On:** After installation and initial charging, power on your UPS.
- **Connect Equipment:** Connect your critical equipment to the UPS outlets.
- **Monitor Status:** Regularly check the UPS status indicators or management software for battery health and charge level.
- **Self-Test:** Periodically initiate a UPS self-test (if available) to verify battery functionality.

The RBC6 is designed to seamlessly integrate with your APC UPS, providing reliable power protection. No specific operational steps are required for the battery itself beyond proper installation and initial charging.

MAINTENANCE

Proper maintenance extends the life of your RBC6 battery and ensures continuous protection for your equipment.

- **Environmental Conditions:** Operate the UPS in a cool, dry environment. Extreme temperatures can shorten battery life.
- **Avoid Deep Discharges:** While the UPS protects against deep discharge, frequent or prolonged power outages that completely drain the battery can reduce its overall lifespan.
- **Regular Self-Tests:** Perform UPS self-tests monthly to assess battery health.

- **Battery Replacement Cycle:** APC batteries typically last 3-5 years under normal operating conditions. Replace the battery when the UPS indicates a battery fault or when runtime significantly decreases.
- **Recycling:** When replacing your RBC6, utilize the APC "RBC Recycling Program." This program offers free return of your old UPS battery to a recycling center. Use the packaging from your new battery to return the old one. Visit the official APC website for details on how to participate.

TROUBLESHOOTING

If you encounter issues after installing your RBC6, consider the following common troubleshooting steps:

- **UPS Not Turning On:**
 - Ensure the UPS is properly connected to a working wall outlet.
 - Verify the RBC6 battery terminals are securely connected with correct polarity.
 - Allow sufficient time for initial charging (at least 24 hours).
- **Short Runtime / Battery Fault Indicator:**
 - Confirm the battery has completed its initial charge cycle.
 - Perform a UPS calibration if your model supports it.
 - Ensure the ambient temperature is within the recommended operating range.
 - If the issue persists, the battery may be defective or nearing its end of life. Contact APC support.
- **Battery Not Fitting:**
 - Double-check that you have the correct RBC model (RBC6) for your specific UPS unit. Refer to your UPS manual or APC's compatibility guide.
 - Ensure no obstructions are preventing the battery from sliding in completely.

For more complex issues or UPS-specific error codes, consult your APC UPS user manual or contact APC technical support.

SPECIFICATIONS

Model Number	RBC6
Battery Type	Sealed Lead Acid (VRLA)
Number of Batteries	2 (12V batteries required, included)
Battery Capacity	4400 mAh (Note: This is a common representation, actual Ah rating may vary slightly by specific 12V battery)
Product Dimensions	7.7 x 6 x 3.7 inches (19.6 x 15.2 x 9.4 cm)
Item Weight	16.9 pounds (7.67 kg)
Manufacturer	APC
Compatible UPS Models	SMT1000, SMT1000I, SMT1000US, SMT1000ICH, SMT1000TW, SUA1000ICH-45, SMC1500, SMC1500I, SU1000, SU1000BX120, SUA1000US, SUA1000

WARRANTY AND SUPPORT

Warranty: Genuine APC Replacement Battery Cartridges (RBCs) are backed by a **2-year Manufacturer Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

Customer Support: For technical assistance, warranty claims, or information regarding the RBC Recycling Program, please visit the official APC website or contact APC customer service directly. Ensure you have your product model number (RBC6) and proof of purchase available when contacting support.

Recycling Program: APC is committed to environmental responsibility. The "RBC Recycling Program" allows you to return your old UPS battery for free recycling. Details and instructions for this program can be found on the APC website.