

APC SMT750RM2UC

APC Smart-UPS SMT750RM2UC 750VA 2U Rackmount UPS User Manual

Model: SMT750RM2UC | Brand: APC

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your APC Smart-UPS SMT750RM2UC. This Uninterruptible Power Supply (UPS) is designed to provide reliable power and surge protection for critical electronic equipment.

2. SAFETY INFORMATION

Read these instructions carefully before attempting to install, operate, service, or maintain this equipment. Adhere to all warnings and operating instructions.

- This UPS contains internal batteries and may present a shock hazard even when disconnected from the AC power source.
- Servicing of batteries should be performed or supervised by personnel knowledgeable of batteries and the required precautions.
- Do not dispose of batteries in a fire. Batteries may explode.
- Do not open or mutilate batteries. Released electrolyte is harmful to the skin and eyes. It may be toxic.
- A battery can present a risk of electrical shock and high short-circuit current.
- Always connect the UPS to a grounded outlet.
- Do not use the UPS for medical or life support equipment.

3. PACKAGE CONTENTS

Verify that all components are present upon receipt. Contact your dealer if any items are missing or damaged.

- APC Smart-UPS SMT750RM2UC Unit
- 16GB USB 3.0 Drive
- Rackmount installation hardware

- Documentation CD
- USB communication cable
- Serial communication cable
- Power cord(s)

4. PRODUCT FEATURES

The APC Smart-UPS SMT750RM2UC offers advanced features for power protection and management:

- **Efficient Power Protection:** Provides 750VA/500W of line-interactive pure sine wave power in a 2U rackmount design, suitable for servers, storage systems, network closets, and POS systems.
- **Voltage Stability Assurance:** Automatic Voltage Regulation (AVR) corrects utility voltage fluctuations, ensuring a stable power supply to connected devices.
- **Remote Monitoring Capabilities:** Features a SmartConnect Ethernet Port for cloud-based remote power monitoring, firmware upgrades, diagnostics, and email notifications.
- **Flexible Shutdown Options:** Supports graceful shutdown via serial or USB cables using PowerChute Serial Shutdown software, or through an optional Network Management Card for seamless shutdown of physical and virtual servers.
- **Included 16GB USB Drive:** A 16GB USB drive is included for data storage or file transfer.

5. SETUP

5.1 Physical Installation

The SMT750RM2UC is a 2U rackmount unit. Ensure proper ventilation and secure mounting within a standard 19-inch rack.

Step 1: Install the rackmount rails (if not pre-installed) into your server rack according to the rail manufacturer's instructions.

Step 2: Carefully slide the UPS unit onto the installed rails until it clicks into place. Secure the front of the UPS to the rack using the provided screws.

Step 3: Ensure adequate clearance for airflow around the front and rear of the unit.

5.2 Connections

Connect your equipment to the UPS as follows:

1. **Input Power:** Connect the UPS input power cord (NEMA 5-15P) to a grounded utility power outlet.
2. **Output Connections:** Connect your critical equipment (servers, network devices, etc.) to the 6 x NEMA 5-15R output receptacles on the rear of the UPS.
3. **Communication Ports:**
 - **USB Port:** Connect the provided USB cable from the UPS to your computer for local monitoring and graceful shutdown via PowerChute software.
 - **Serial Port:** Connect the provided serial cable for local monitoring and graceful shutdown via PowerChute software.
 - **SmartConnect Ethernet Port:** Connect an Ethernet cable to this port for cloud-based remote monitoring and management.
 - **SmartSlot:** An optional slot for installing accessories like a Network Management Card for advanced network-based management.

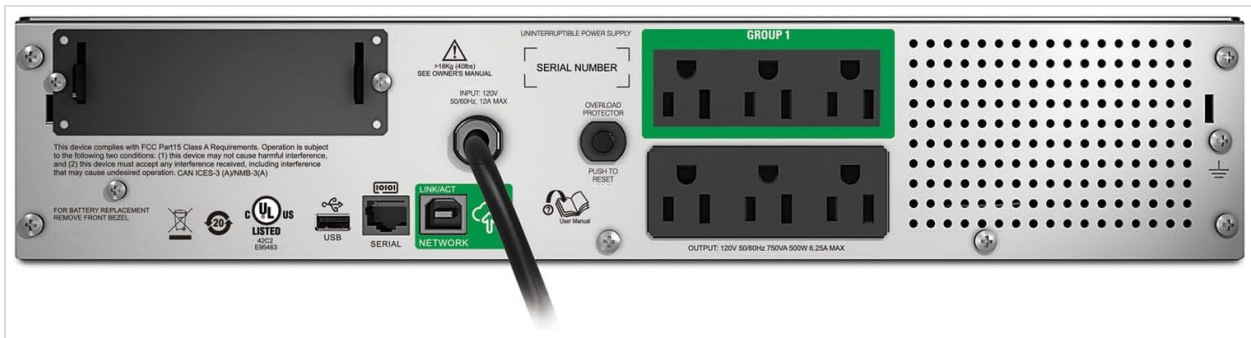


Image 1: Rear Panel Connections. This image displays the rear panel of the APC Smart-UPS SMT750RM2UC, highlighting the input power connection, six NEMA 5-15R output receptacles, USB port, serial port, SmartConnect Ethernet port, and SmartSlot for optional accessories. The layout indicates how to connect power and data cables.

5.3 Initial Power On

After all connections are made:

1. Press the power button on the front panel of the UPS.
2. The LCD display will illuminate, and the UPS will perform a self-test.
3. Allow the UPS to charge its batteries for at least 24 hours before relying on it for extended backup power.



Image 2: Front Panel. This image shows the front view of the APC Smart-UPS SMT750RM2UC, featuring the LCD display and control buttons. The display provides real-time status information and allows for configuration adjustments.

6. OPERATION

6.1 LCD Display and Control

The front panel LCD provides real-time status information and allows for configuration of UPS settings. Use the navigation buttons (Esc, Up, Down, Enter) to browse menus and adjust parameters.

- **Status Indicators:** Display battery charge, load level, and operational mode.
- **Configuration:** Adjust output voltage, sensitivity, alarm settings, and more.
- **Self-Test:** Initiate a battery self-test to check battery health.

6.2 Automatic Voltage Regulation (AVR)

The UPS automatically corrects minor voltage fluctuations (sags and surges) without switching to battery power, preserving battery life and ensuring a stable power supply to connected equipment.

6.3 SmartConnect Port

The SmartConnect port enables cloud-based monitoring of your UPS. Once connected to your network and registered, you can access UPS status, receive alerts, and perform basic management tasks from a web browser or mobile app.

6.4 Graceful Shutdown

In the event of an extended power outage, the UPS can initiate a graceful shutdown of connected servers and virtual machines using PowerChute software (via USB or Serial) or an optional Network Management Card (via SmartSlot). This prevents data loss and ensures system integrity.

7. MAINTENANCE

7.1 Battery Care and Replacement

The UPS contains a sealed, maintenance-free lead-acid battery. Batteries typically last 3-5 years under normal operating conditions. Replace batteries when the UPS indicates a battery fault or when runtime significantly decreases.

- Refer to the full user manual for detailed battery replacement instructions.
- Always use genuine APC replacement battery cartridges (RBCs) to ensure compatibility and optimal performance.
- Recycle old batteries responsibly.

7.2 Cleaning

Periodically clean the exterior of the UPS with a soft, damp cloth. Ensure ventilation openings are free from dust and debris to maintain proper airflow.

8. TROUBLESHOOTING

This section provides solutions to common issues. For more complex problems, consult the full user manual or APC technical support.

Problem	Possible Cause	Solution
UPS does not turn on	Not connected to utility power; Battery not connected; Low battery charge.	Ensure power cord is securely plugged in; Check internal battery connections; Allow UPS to charge for several hours.
UPS beeps continuously	On battery power; Overload condition; Low battery.	Check utility power; Reduce connected load; Allow battery to charge or replace if faulty.
"Replace Battery" indicator is on	Battery has reached end of life or is faulty.	Perform a battery self-test; Replace the battery cartridge if necessary.

9. SPECIFICATIONS

Key technical specifications for the APC Smart-UPS SMT750RM2UC:

- **Model:** SMT750RM2UC
- **Form Factor:** 2U Rackmount
- **Output Power Capacity:** 750 VA / 500 Watts
- **Output Connections:** 6 x NEMA 5-15R
- **Input Connection:** NEMA 5-15P

- **Nominal Input Voltage:** 120V
- **Nominal Output Voltage:** 120V
- **Topology:** Line Interactive
- **Waveform Type:** Sine wave
- **Dimensions (H x W x D):** 3.39 in (8.6 cm) x 17.01 in (43.2 cm) x 16.10 in (40.9 cm)
- **Net Weight:** 39.02 lb (17.7 kg)
- **Included Accessories:** 16GB USB 3.0 Drive

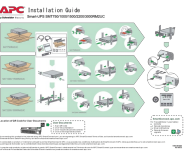
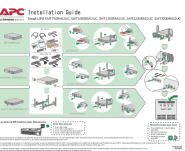


10. WARRANTY AND SUPPORT

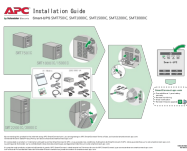

APC provides a standard warranty for this product. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official APC website.

For technical support, product registration, or to download the latest software and documentation, please visit the APC support portal or contact APC customer service.

Online Resources: [APC Support Website](#)

Related Documents - SMT750RM2UC

	<p>APC Smart-UPS SMT750-3000RM2UC Installation Guide Schneider Electric</p> <p>Comprehensive installation guide for APC Smart-UPS SMT750, SMT1000, SMT1500, SMT2200, and SMT3000RM2UC rackmount UPS models. Learn how to unpack, install, and connect your UPS.</p>
	<p>APC Smart-UPS Installation Guide: SMT750RM2UC to SMT3000RM2UC</p> <p>This guide provides installation instructions for APC Smart-UPS models SMT750RM2UC, SMT1000RM2UC, SMT1500RM2UC, SMT2200RM2UC, and SMT3000RM2UC. It covers rack mounting, connections, and SmartConnect setup.</p>
	<p>APC Smart-UPS Operation Manual: Installation, Safety, and Troubleshooting Guide</p> <p>Official operation manual for APC Smart-UPS Uninterruptible Power Supply (UPS) units. Covers installation, safety, operation, configuration, and troubleshooting for models like SMT series. Provides essential power protection guidance.</p>
	<p>APC Back-UPS BX Series User Manual: Installation, Operation, and Troubleshooting</p> <p>Comprehensive user manual for APC Back-UPS BX Series (500VA to 2200VA) from Schneider Electric, covering safety instructions, product description, operational features, installation, troubleshooting, service, and warranty information.</p>

	<p>APC Smart-UPS Installation Guide for SMT750IC, SMT1000IC, SMT1500IC, SMT2200IC, SMT3000IC</p> <p>This installation guide provides instructions for setting up APC Smart-UPS models SMT750IC, SMT1000IC, SMT1500IC, SMT2200IC, and SMT3000IC. It covers connecting the UPS, power cords, and information about the SmartConnect feature.</p>
	<p>APC Back-UPS BX650LI-GR User Guide: Safety, Specifications, and Operation</p> <p>Comprehensive user guide for the APC Back-UPS BX650LI-GR, covering safety precautions, installation, features, specifications, status indicators, operational modes, troubleshooting, and warranty information.</p>