

APC SMC1500-2UC

APC SMC1500-2UC Smart-UPS 1500VA Rackmount User Manual

Model: SMC1500-2UC

1. INTRODUCTION

This manual provides essential instructions for the safe installation, operation, and maintenance of your APC SMC1500-2UC Smart-UPS 1500VA Rackmount Uninterruptible Power Supply. The Smart-UPS is designed to provide reliable power protection for electronic equipment, safeguarding against power outages, sags, surges, and other power disturbances. Please read this manual thoroughly before installing or operating the unit.

2. SAFETY INFORMATION

WARNING: Risk of Electric Shock or Explosion

- This UPS contains hazardous voltages. Do not attempt to disassemble the unit. There are no user-serviceable parts inside.
- Servicing of batteries should be performed or supervised by personnel knowledgeable about batteries and the required precautions. Keep unauthorized personnel away from batteries.
- Do not dispose of batteries in a fire. The batteries may explode.
- Do not open or mutilate batteries. Released electrolyte is harmful to the skin and eyes. It may be toxic.
- Connect the UPS to a grounded outlet only.
- Ensure proper ventilation around the UPS. Do not block ventilation openings.

3. PACKAGE CONTENTS

The APC SMC1500-2UC Smart-UPS package typically includes:

- APC SMC1500-2UC Smart-UPS Unit
- Documentation (User Manual, Safety Guide)
- Rackmount hardware (rails, screws)
- USB communication cable
- Serial communication cable

4. PRODUCT OVERVIEW

4.1 Key Features

- **1500VA / 900W Capacity:** Provides robust power backup for critical equipment.
- **Pure Sine Wave Output:** Ensures compatibility with sensitive electronics.
- **Automatic Voltage Regulation (AVR):** Corrects minor power fluctuations without using battery power, extending battery life.
- **NEMA 5-15P Input:** Standard input plug for 120V power.
- **(8) NEMA 5-15R Outputs:** Multiple outlets for connecting protected devices.
- **APC SmartConnect:** Cloud-based remote monitoring feature for automatic notifications, firmware updates, and advanced support.

4.2 Front Panel



Image 1: Front view of the APC SMC1500-2UC Smart-UPS. This image displays the front panel of the UPS, featuring the LCD screen which shows real-time status information such as input voltage and battery charge. To the right of the screen are control buttons for navigation and power management. The front also includes a ventilation grille.

The front panel features an LCD display that provides real-time status information, including input/output voltage, battery charge level, and load capacity. Control buttons allow for navigation through menus, power on/off, and alarm silencing.

4.3 Rear Panel



Image 2: Angled view of the APC SMC1500-2UC Smart-UPS. This image provides an angled perspective of the UPS, highlighting its rackmount form factor with mounting ears visible on the sides. The front panel with its LCD and controls is also clearly visible, giving a comprehensive view of the unit's design.

The rear panel includes the NEMA 5-15P input power cord, eight NEMA 5-15R output receptacles for connected equipment, a USB port, a serial port, and an APC SmartConnect port for network monitoring.

5. SETUP

5.1 Rack Mounting

The SMC1500-2UC is designed for 2U rack installation. Use the provided rackmount hardware to securely install the UPS into a standard 19-inch equipment rack. Ensure adequate space for ventilation around the unit.

5.2 Connecting to Power and Equipment

1. Connect the UPS input power cord (NEMA 5-15P) to a grounded 120V AC wall outlet. Avoid connecting to surge protectors or extension cords.
2. Allow the UPS to charge for at least 24 hours before initial use to ensure full battery capacity.
3. Connect your critical equipment (servers, network devices, etc.) to the NEMA 5-15R output receptacles on the rear of the UPS. Ensure the total load does not exceed the UPS capacity (900W).
4. For remote monitoring, connect an Ethernet cable from your network to the APC SmartConnect port on the rear of the UPS.
5. Optionally, connect the USB or serial cable to a computer for local monitoring and management.

5.3 Initial Startup

After connecting the UPS and allowing initial charging, press the power button on the front panel to turn on the unit. The LCD display will illuminate, and the UPS will perform a self-test. The UPS is now ready to provide protected power.

6. OPERATING INSTRUCTIONS

6.1 Power On/Off

- **To Power On:** Press and hold the power button on the front panel until the unit beeps and the LCD illuminates.
- **To Power Off:** Press and hold the power button until the unit beeps and the LCD turns off. Ensure all connected equipment is safely shut down before powering off the UPS.

6.2 LCD Display and Navigation

The LCD display provides real-time information. Use the navigation buttons (up/down arrows) to scroll through various screens displaying input/output voltage, load percentage, battery charge, estimated runtime, and event logs. The 'Enter' button confirms selections, and the 'Escape' button returns to the previous screen.

6.3 APC SmartConnect

APC SmartConnect allows for remote monitoring of your UPS via a secure web portal. Once the UPS is connected to your network, register your device at smartconnect.apc.com. This service provides automatic notifications, firmware updates, and diagnostic support.

7. MAINTENANCE

7.1 Battery Replacement

The UPS batteries are user-replaceable. Refer to the APC website or contact APC support for specific instructions and compatible replacement battery cartridges (RBCs). Always use genuine APC replacement batteries to ensure

optimal performance and safety. Disconnect the UPS from all power sources before attempting battery replacement.

7.2 Cleaning

Periodically clean the exterior of the UPS with a soft, dry cloth. Ensure ventilation openings are free from dust and debris to maintain proper airflow and prevent overheating. Do not use liquid or aerosol cleaners directly on the unit.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your APC SMC1500-2UC Smart-UPS.

- **UPS does not turn on:** Ensure the input power cord is securely connected to a live, grounded outlet. Check the circuit breaker. Verify the battery is connected internally.
- **UPS is beeping continuously:** This often indicates a low battery or an overload condition. Check the load percentage on the LCD. If overloaded, disconnect non-essential equipment. If low battery, allow the UPS to charge.
- **Battery not charging:** Ensure the UPS is connected to a constant power source. If the issue persists after 24 hours of charging, the battery may need replacement.
- **"Overload" message on LCD:** The total power draw of connected equipment exceeds the UPS capacity. Disconnect some equipment immediately.
- **SmartConnect not connecting:** Verify the Ethernet cable is properly connected to the SmartConnect port and your network. Ensure your network allows outbound connections to APC's SmartConnect service.

For more detailed troubleshooting or issues not listed here, refer to the APC support website or contact technical support.

9. SPECIFICATIONS

Feature	Specification
Model Number	SMC1500-2UC
Capacity (VA/Watts)	1500VA / 900W
Input Voltage	120 Volts
Input Connection	NEMA 5-15P
Output Connections	(8) NEMA 5-15R
Form Factor	Rack (2U)
Product Dimensions (H x W x D)	3.4 x 17 x 18.8 inches (8.6 x 43.2 x 47.8 cm)
Item Weight	63 pounds (28.6 kg)
Battery Type	Maintenance-free sealed Lead-Acid battery with suspended electrolyte : leakproof
Typical Recharge Time	3 hours (to 90%)

10. WARRANTY AND SUPPORT

10.1 Amazon Renewed Guarantee

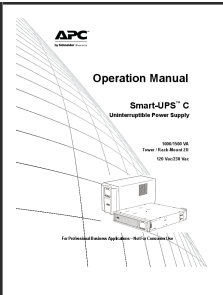
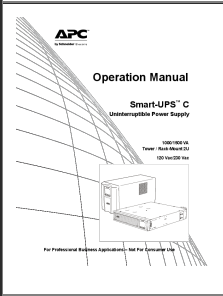

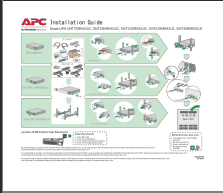
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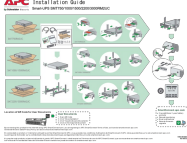
10.2 APC Support

For technical assistance, product information, or warranty inquiries related to the APC Smart-UPS, please visit the official APC website or contact APC customer support. The SmartConnect feature is free during the standard warranty period of the UPS.

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Related Documents - SMC1500-2UC

	<p>APC Smart-UPS C Operation Manual: Installation, Safety, and Features</p> <p>Comprehensive operation manual for APC Smart-UPS C models (1000/1500 VA). Covers installation, safety guidelines, specifications, product overview, status indicators, troubleshooting, battery replacement, service, and limited factory warranty for these uninterruptible power supplies.</p>
	<p>APC Smart-UPS C Operation Manual</p> <p>Operation manual for the APC Smart-UPS C series, covering installation, safety, specifications, and troubleshooting for 1000/1500 VA models.</p>
	<p>APC Smart-UPS User Manual: 1000VA/1500VA, 750XL/1000XL Tower UPS</p> <p>Comprehensive user manual for APC Smart-UPS Tower models, covering installation, operation, configuration, troubleshooting, and regulatory information for uninterruptible power supplies.</p>
	<p>APC Smart-UPS Installation Guide: SMT750RMI2UC to SMT3000RMI2UC</p> <p>This guide provides installation instructions for APC Smart-UPS models SMT750RMI2UC, SMT1000RMI2UC, SMT1500RMI2UC, SMT2200RMI2UC, and SMT3000RMI2UC. It covers rack mounting, connections, and SmartConnect setup.</p>

	<p>APC Smart-UPS Firmware Release Notes</p> <p>Comprehensive release notes detailing firmware updates, bug fixes, and new features for APC Smart-UPS models, including versions from 18.2 down to 02.6, covering various SMC and SMT series.</p>
	<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>