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› APC SMT2200 Smart-UPS 2200VA 1980W 120V LCD USB Tower Backup Instruction Manual

APC SMT2200

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Model: SMT2200

1. PRODUCT OVERVIEW

The APC SMT2200 Smart-UPS is an Uninterruptible Power Supply (UPS) designed to provide reliable battery backup and surge protection for electronic equipment. This unit delivers 2200VA / 1980W of power, ensuring continuous operation during power outages and protecting against damaging power fluctuations. It features a pure sine wave output for compatibility with sensitive electronics and active PFC power supplies, an LCD display for status monitoring, and network manageability options.



Figure 1: Front view of the APC SMT2200 Smart-UPS unit. This image shows the front panel with the APC logo and the Smart-UPS 2200 branding.

Key Features:

- 2200VA / 1980W Battery Backup Uninterruptible Power Supply (UPS)
- Pure Sine Wave UPS for compatibility with active PFC power supplies and electronics
- 8 battery backup and surge protector outlets
- Integrated LCD Display for real-time status and configuration
- Network-grade power conditioning protects from surges and disruptive noise

- Solid state Automatic Voltage Regulation (AVR) boosts low input voltage and trims high voltage without battery operation
- Network manageable via serial, USB, or optional Ethernet
- Typical recharge time: 3 hours

2. SETUP AND INSTALLATION

2.1 Unpacking and Inspection

Carefully unpack the UPS and inspect it for any shipping damage. If any damage is found, notify the carrier and reseller. The package should contain the UPS unit, documentation, and necessary cables.

2.2 Placement

Place the UPS in a protected area free from excessive dust, corrosive fumes, and conductive contaminants. Ensure the ambient temperature is within the operating range of 32°F to 104°F (0°C to 40°C). Maintain adequate clearance around the unit for proper ventilation, especially around the rear fan.

2.3 Battery Connection

The UPS battery may be disconnected for shipping. Refer to the specific instructions provided with your unit for connecting the internal battery. Typically, this involves rotating or pushing a battery connector into place.

2.4 Connecting Equipment

Connect your equipment to the appropriate outlets on the rear panel of the UPS. The SMT2200 features 8 outlets, providing both battery backup and surge protection. Ensure that the total load does not exceed the UPS's capacity of 1980W.



Figure 2: Rear panel of the APC SMT2200 Smart-UPS. This image displays the input power cord, output receptacles (NEMA 5-15R and NEMA 5-20R), USB port, serial port, and optional SmartSlot for network management cards.

- **Battery Backup & Surge Protection Outlets:** Connect critical equipment such as computers, monitors, and network devices to these outlets. These devices will receive power from the battery during an outage.
- **Input Power:** Connect the UPS power cord to a properly grounded 120V AC outlet.

2.5 Initial Battery Charge

Allow the UPS battery to charge for at least 3 hours before connecting any equipment or performing a self-test. This ensures maximum runtime capability.

3. OPERATION

3.1 Turning On the UPS

Press the power button on the front panel. The LCD display will illuminate, and the UPS will perform a self-test. Once the self-test is complete, the UPS will be in Online mode, providing conditioned power to connected equipment.

3.2 Turning Off the UPS

To turn off the UPS and remove power from connected equipment, press and hold the power button until the unit powers down. For a controlled shutdown, ensure all connected devices are properly shut down first.

3.3 LCD Display

The LCD display provides real-time information about the UPS status, including input/output voltage, load percentage, battery charge level, and estimated runtime. Use the navigation buttons on the front panel to scroll through the display menus and configure settings.

3.4 Self-Test

It is recommended to perform a self-test periodically to ensure the battery and internal components are functioning correctly. Refer to the LCD menu for initiating a self-test.

4. MAINTENANCE

4.1 Battery Replacement

The SMT2200 uses maintenance-free sealed Lead-Acid batteries. The typical battery life is 3-5 years, but this can vary based on environmental conditions and usage. The UPS will indicate when the battery needs replacement. Always replace batteries with APC-approved replacement battery cartridges (RBC55) to ensure optimal performance and safety. Refer to the APC website or your reseller for replacement instructions.

4.2 Cleaning

Keep the UPS free of dust and debris. Use a dry cloth to clean the exterior. Do not use liquid cleaners or solvents. Ensure ventilation openings are clear of obstructions.

5. TROUBLESHOOTING

This section provides solutions to common issues. For more complex problems, contact APC technical support.

Problem	Possible Cause	Solution
UPS does not turn on	Battery not connected; No input power; Faulty unit	Ensure battery is fully connected. Verify input power cable is securely plugged into a live outlet. Contact support if issue persists.
UPS beeps continuously	On battery power; Overload; Low battery	Check if utility power is present. Reduce connected load. Allow battery to recharge.
"Replace Battery" indicator on LCD	Battery nearing end of life	Order and install a new APC replacement battery cartridge (RBC55).
Connected equipment loses power	UPS overload; Battery depleted; UPS fault	Reduce load. Allow battery to recharge. Check LCD for error messages.

6. TECHNICAL SPECIFICATIONS



SMT2200
 4.5 (11) Write a Review

Intelligent and efficient network power protection from entry level to scalable runtime. Ideal UPS for servers, point-of-sale, routers, switches, hubs and other...
 Includes: CD with software, Documentation CD, Smart UPS signaling RS-232 cable, USB cable

Technical Specifications

Output	
Output power capacity	1.82 kWatts / 1.92 kVA
Max Configurable Power (Watts)	1.88 kWatts / 2.2 kVA
Nominal Output Voltage	120V
Output Voltage Distortion	Less than 6%
Output Frequency (sync to mains)	50/60Hz +/- 3 Hz
Topology	Line Interactive
Waveform type	Sine wave
Output Connections	(8) NEMA 5-15R (Battery Backed) (2) NEMA 5-20R (Battery Backed)
Transfer Time	4ms typical / 8ms maximum
Input	
Nominal Input Voltage	120V
Input Frequency	50/60 Hz +/- 3 Hz (auto sensing)
Input Connections	NEMA 5-20P
Cord Length	6ft (1.83meters)
Input voltage range for main operations	82 - 145V
Input voltage adjustable range for mains operation	75 - 150V
Number of Power Cords	1
Batteries & Runtime	
Battery type	Maintenance-free sealed Lead-Acid battery with suspended electrolyte
Typical recharge time	2hour(s)
Replacement Battery	RBC55
Expected Battery Life (years)	3 - 5
RBC Quantity	1

Figure 3: Part 1 of the APC SMT2200 Technical Specifications sheet, detailing output, input, and battery information.

Runtime	View Runtime Graph View Runtime Chart
Efficiency	View Efficiency Graph
Communications & Management	
Interface Port(s)	SmartSlot, USB
Control panel	Multi-function LCD status and control console
Audible Alarm	Alarm when on battery, distinctive low battery alarm, configurable delay
Emergency Power Off (EPO)	Yes
Available SmartSlot™ Interface Quantity	1
Surge Protection and Filtering	
Surge energy rating	50Joules
Filtering	Full time multi-pole noise filtering, 0.3% IEEE surge let-through, zero clamping response time, meets UL 1449
Physical	
Maximum Height	17.6inches (450mm, 43.2CM)
Maximum Width	7.7inches (195mm, 18.8CM)
Maximum Depth	21.42inches (544mm, 54.4CM)
Net Weight	112 lbs. (50.81KG)
Shipping weight	134 lbs. (60.31KG)
Shipping Height	22.6inches (576mm, 57.6CM)
Shipping Width	15.6inches (396mm, 39.6CM)
Shipping Depth	36.6inches (930mm, 93.0CM)
Color	Black
Units per Pallet	9.0
SKU Codes	067130426889 7
Environmental	
Operating Temperature	32 - 104 °F (0 - 40 °C)
Operating Relative Humidity	0 - 95 %
Operating Elevation	0-10000ft (0-3000meters)
Storage Temperature	-15 - 45 °C
Storage Relative Humidity	0 - 95 %
Storage Elevation	0-50000ft (0-15000meters)
Audible noise at 1 meter from surface of unit	45 dBA
Online thermal dissipation	275.0BTU/hr
Conformance	
Approvals	CSA, FCC Part 15 Class A, UL 1778
Equipment protection policy	Lifetime \$150000
Standard warranty	3 years repair or replace (excluding battery) and 2 year for battery, optional on-site warranties

Figure 4: Part 2 of the APC SMT2200 Technical Specifications sheet, detailing communications, surge protection, physical dimensions, environmental, and conformance information.

Feature	Detail
Brand	APC
Model Number	SMT2200
Output Power Capacity	1980 Watts / 2200 VA
Nominal Output Voltage	120V
Waveform Type	Sine wave
Output Connections	8 (NEMA 5-15R, NEMA 5-20R)
Nominal Input Voltage	120V
Input Frequency	50/60 Hz +/- 3 Hz (auto sensing)
Battery Type	Maintenance-free sealed Lead-Acid battery
Typical Recharge Time	3 hours
Expected Battery Life	3-5 years
Interface Ports	SmartSlot, USB
Form Factor	Tower
Item Dimensions (H x W x D)	7.72 x 21.42 x 17.01 inches (196 x 544 x 432 mm)
Item Weight	130 Pounds (59.09 kg)
Operating Temperature	32 - 104 °F (0 - 40 °C)
Enclosure Material	Metal

7. WARRANTY AND SUPPORT

7.1 Warranty Information

This APC SMT2200 Smart-UPS unit comes with a 90-day limited warranty. Please retain your proof of purchase for warranty claims. The warranty covers defects in materials and workmanship under normal use.

7.2 Technical Support

For technical assistance, troubleshooting, or warranty inquiries, please contact APC customer support. Visit the official APC website for contact information and additional resources.