



## NEW! APC Smart-UPS SC 450VA 230V - 1U Rackmount/Tower

APC Smart-UPS SC, 450VA/280W,  
Input 230V/Output 230V, Interface Port DB-9 RS-  
232, Rack Height 1 U  
Includes: CD with software, Rack Mounting  
Brackets, Smart UPS signalling RS-232 cable,  
User Manual



Part Number : **SC450RM1U**

### The economical UPS to start your business

APC Smart-UPS SC is the perfect protection for the IT resources of your growing business. Manageable and cost effective, APC Smart-UPS SC is designed for use by small and medium companies looking to protect entry level servers and networking equipment, providing both power and data-line protection. Included PowerChute Business Edition management software allows you to configure safe system shutdowns and take advantage of advanced UPS management features like automated risk assessments and runtime capacity calculations. (All major operating systems supported). Communications are through your server's standard serial port. When you are ready to take your business to the next level you can use the same software environment found on Smart-UPS SC to seamlessly manage other Smart-UPS models, allowing you to grow your IT infrastructure without having to replace your software or retrain your administrators. Built on the same standards as the award winning Smart-UPS UPS, the Smart-UPS SC is the UPS to start your business with.

### Features & Benefits

#### Manageability

Automatic self-test	Ensures early detection of potential problems by periodic testing of UPS components.
Predictive failure notification	Provides early-warning fault analysis on batteries enabling timely preventive maintenance
Audible alarms	Actively let you know if the unit is on battery, if the battery is low or if there is an overload condition.
Serial Connectivity	Provides management of the UPS via a serial port.
LED status indicators	Quickly understand UPS status with indicators.

Network manageable	Provides remote management of the UPS over the network.
InfraStruXure Manager compatible	Enables centralized management via APC's InfraStruXure Manager.
Manage multiple UPSs	View status and configure multiple UPSs simultaneously.  Basic version supports up to 5 UPSs.  Deluxe version supports up to 25 UPSs.

## Economy


Boost and Trim Automatic Voltage Regulation (AVR)	Automatically corrects low and high voltage conditions, allowing you to work through brownouts and overvoltages without discharging the battery. This saves battery life, increases uptime, and improves your productivity.
User-replaceable batteries	Enables simple upgrades and replacement of the Batteries.
Adjustable voltage-transfer points	Maximizes useful battery life by widening the input voltage window or tightening the output voltage regulation.
Safety-agency approved	Ensures product testing and approval to work safely with the connected loads and within the environment.

## Availability

Dataline Surge Protection	Provides protection of connected equipment from power surges on the data lines.
Power conditioning	Protects connected loads from surges, spikes, lightning, and other power disturbances.
Intelligent battery management	Actively increases battery life and system reliability using FastCharge technology, automatic battery and circuitry self-tests, and advanced diagnostics.
Automatic restart of loads after UPS shutdown	Automatically starts up the connected equipment upon the return of utility power.
Cold-start capable	Provides temporary battery power when the utility power is out.
Hot-swappable batteries	Ensures clean, uninterrupted power to protected equipment throughout battery replacement.
Resettable circuit breakers	Enables quick recovery from UPS overload events.

## Technical Specifications

### Output

Output power capacity	450 VA
Output power capacity	280 watts
Max Configurable Power	450 VA
Max Configurable Power	280 watts
Nominal output voltage	230V
Output Voltage Distortion	less than 5% at full load
Output Frequency (sync to mains)	47-53Hz for 50Hz nominal , 57-63Hz for 60Hz nominal
Crest Factor	up to 5 : 1
Waveform type	Stepped approximation to a sinewave
Output Connections	(4) IEC 320 C13  (2) IEC Jumpers

### Batteries & Runtime

Battery type	Maintenance-free sealed Lead-Acid battery with suspended electrolyte : leakproof
Replacement battery cartridge	RBC18
RBC™ Quantity	1
Typical backup time at half load	19.4 minutes (140 Watts)
Typical backup time at full load	5.9 minutes (280 Watts)
Runtime Chart	<a href="#">Smart-UPS SC</a>

### Communications & Management

Interface port	DB-9 RS-232
Control panel	LED status display with On Line : On Battery : Replace Battery and Overload indicators
Audible alarm	Alarm when on battery : distinctive low battery alarm
Emergency Power Off (EPO)	Optional

### Input

Nominal input voltage	230V
Input frequency	50/60 Hz +/- 3 Hz (auto sensing) Hz
Input Connection Type	IEC-320 C14
Input voltage range for main operations	160 - 286 V
Input voltage adjustable range for mains operation	151 - 302 V

### Surge Protection and Filtering

Surge energy rating	320 Joules
Filtering	Full time multi-pole noise filtering : 0.7% IEEE surge let-through : zero clamping response time : meets UL 1449
Dataline protection	RJ-11 2-Way Modem/Fax/DSL splitter with protection (four wire dual lines) , RJ45 10/100 Base-T Ethernet protection

### Environmental

Operating Environment	0 - 40 °C ( 32 - 104 °F )
Operating Relative Humidity	0 - 95 %
Operating Elevation	0-10000 feet ( 0-3000 meters )
Storage Temperature	-15 - 45 °C ( 5 - 113 °F )
Storage Relative Humidity	0 - 95 %
Storage Elevation	0-50000 feet ( 0-15000 meters )
Audible noise at 1 meter from surface of unit	38 ts_dBA

**Physical**

Maximum height	1.72 inches ( 44 mm )
Maximum width	17.00 inches ( 432 mm )
Maximum depth	15.08 inches ( 383 mm )
Rack Height	1 U
Net weight	22.40 lbs. ( 10.18 kg )
Shipping Weight	25.80 lbs. ( 11.73 kg )
Shipping Height	6.46 inches ( 164 mm )
Shipping Width	18.73 inches ( 476 mm )
Shipping Depth	23.17 inches ( 589 mm )
Color	Grey
Units per Pallet	24.00

**Conformance**

Approvals	C-tick , CE , EN 50091-1 , EN 50091-2 , GOST , PCBC , VDE
Standard warranty	2 years repair or replace