

## Smart-UPS

### APC Smart-UPS 2200VA RM 3U 120V/230V In 120V Out



APC Smart-UPS, 1600 Watts / 2200 VA, Input 120V, 230V / Output 120V, Interface Port DB-9 RS-232, SmartSlot, Rack Height 3 U

**Includes:** CD with software, Country-specific detachable power cord, Smart UPS signalling RS-232 cable, User Manual



**Standard Lead Time:** Usually Ships within 4 Weeks

## Smart-UPS Features & Benefits

### Availability

Boost and Trim Automatic Voltage Regulation (AVR)	Gives higher application availability by correcting low and high voltage conditions without using the battery.
Intelligent Battery Management	Maximizes battery performance, life, and reliability through intelligent, precision charging.
Power conditioning	Protects connected loads from surges, spikes, lightning, and other power disturbances.
Temperature-compensated battery charging	Prolongs battery life by regulating the charge voltage according to battery temperature.
Automatic restart of loads after UPS shutdown	Automatically starts up the connected equipment upon the return of utility power.
Automatic self-test	Periodic battery self-test ensures early detection of a battery that needs to be replaced.
Cold-start capable	Provides temporary battery power when the utility power is out.
Disconnected battery notification	Warns when a battery is not available to provide backup power.
Generator Compatible	Ensures clean, uninterrupted power to protected equipment when generator power is used.

### Manageability


Network manageable	Provides remote management of the UPS over the network.
SmartSlot	Customize UPS capabilities with management cards.
Audible Alarms	Actively let you know if the unit is on battery, if the battery is low or if there is an overload condition.
LED status indicators	Quickly understand unit and power status with visual indicators.
Serial Connectivity	Provides management of the UPS via a serial port.
USB Connectivity	Provides management of the UPS via a USB port (not available on all models).
Disconnected battery notification	Warns when a battery is not available to provide backup power.
InfraStruXure Manager Compatible	Enables centralized management via the APC InfraStruXure® Manager.

### Serviceability


User-replaceable batteries	Increases availability by allowing a trained user to perform upgrades and replacements of the batteries reducing Mean Time to Repair (MTTR)
Hot-swappable batteries	Ensures clean, uninterrupted power to protected equipment while batteries are being replaced
Predictive failure notification	Provides early-warning fault analysis ensuring proactive component replacement.
Resettable circuit	Enables a quick recovery from overload events.

breakers	
<b>Adaptability</b>	
Adjustable voltage-transfer points	Maximizes useful battery life by widening the input voltage window or tightening the output voltage regulation.
Adjustable voltage sensitivity	Provides the ability to adapt the UPS for optimal performance in specific power environments or generator applications.
Field-replaceable power distribution panel	Ensures compatibility with equipment that has different plug types.
<b>Safety</b>	
Safety-agency approved	Ensures the product has been tested and approved to work safely with the connected service provider equipment and within the specified environment. UL, FCC, CE, C-Tick approvals.

# Output

Output Power Capacity	1600 Watts / 2200 VA
Max Configurable Power	1600 Watts / 2200 VA
Nominal Output Voltage	120V
Output Voltage Distortion	Less than 5% at full load
Output Frequency (sync to mains)	47 - 53 Hz for 50 Hz nominal, 57 - 63 Hz for 60 Hz nominal
Crest Factor	up to 5 : 1
Waveform Type	Sine wave
Output Connections	(8) NEMA 5-15R 

# Input

Nominal Input Voltage	120V, 230V
Input Frequency	50/60 Hz +/- 3 Hz (auto sensing)
Input Connections	NEMA 5-20P   Schuko CEE 7 / EU1-16P British BS1363A Italian CEI 23-16
Cord Length	1.83 meters
Input voltage range for main operations	--V
Input voltage adjustable range for mains operation	--V

# Batteries & Runtime

Battery Type	Maintenance-free sealed Lead-Acid battery with suspended electrolyte : leakproof
Typical recharge time	3 hour(s)
Replacement Battery	<a href="#">RBC12</a>
RBC™ Quantity	1
Typical Backup Time at Half Load	24.5 minutes (800 Watts)

Typical Backup Time at Full Load	6.8 minutes (1600 Watts)
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Runtime Chart	<a href="#">Smart-UPS</a>
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## Communications & Management

Interface Port(s)	DB-9 RS-232,SmartSlot
Available SmartSlot™ Interface Quantity	1
Control panel	LED status display with load and battery bar-graphs and On Line : On Battery : Replace Battery : and Overload Indicators
Audible Alarm	Alarm when on battery : distinctive low battery alarm : configurable delays
Emergency Power Off (EPO)	Optional

## Surge Protection and Filtering

Surge energy rating	480 Joules
Filtering	Full time multi-pole noise filtering : 0.3% IEEE surge let-through : zero clamping response time : meets UL 1449

## Physical

Maximum Height	132.00 mm
Maximum Width	483.00 mm
Maximum Depth	635.00 mm
Rack Height	3U
Net Weight	46.82 KG
Shipping Weight	55.92 KG
Shipping Height	254.00 mm
Shipping Width	622.00 mm
Shipping Depth	953.00 mm
Color	Beige

## Environmental

Operating Environment	0 - 40 °C
Operating Relative Humidity	0%
Operating Elevation	0-3000 meters
Storage Temperature	-15 - 45 °C

Storage Relative Humidity	0%
Storage Elevation	0-15000 meters
Audible noise at 1 meter from surface of unit	47.00 dBA
Online Thermal Dissipation	275.00 BTU/hr
Protection Class	--

## Conformance

Regulatory Approvals	CSA,FCC Part 15 Class A,UL 1778
Standard Warranty	2 years repair or replace,optional on-site warranties available,optional extended warranties available
ROHS/WEEE Compliance	RoHS 7b Exemption

\*\*The time to recharge to 90% of full battery capacity following a discharge to shutdown using a load rated for 1/2 the full load rating of the UPS.