



APC Smart-UPS RT 2000VA RM 230V

APC Smart-UPS RT, 2000VA/1400W,
Input 230V/Output 230V, Interface Port DB-9
RS-232, SmartSlot, Extended runtime model,
Rack Height 2 U

Includes: CD with software, Rack Mounting
support rails, Smart UPS signalling RS-232
cable, User Manual



Part Number : **SURT2000RMXLI**

A versatile UPS developed for the harshest power conditions in the world.

APC Smart-UPS RT is a family of high-density, performance UPSs for voice and data networks, medical labs, and light industrial applications. Featuring double conversion on-line topology, the Smart-UPS RT protects your data by supplying reliable, network-grade power. An unlimited number of matching battery packs can be added to comply with aggressive runtime demands of "always on" business-critical systems. Rack-optimized models are an ideal choice for space constrained environments. With capacity up to 10kVA in a convenient rack-mountable 6U form, users can support power hungry blade servers or heavily loaded equipment racks. Customers looking for extremely tight voltage and frequency regulation, internal bypass, and input power factor correction will find them in the Smart-UPS RT.

Features & Benefits

Availability

Automatic internal bypass	Supplies utility power to the connected loads in the event of a UPS overload condition or fault.
Scalable runtime	Allows quick addition of more runtime when needed.
Intelligent battery management	Provides higher availability through intelligent precision-charging that maximizes battery performance, life, and reliability.
Hot-swappable batteries	Ensures clean, uninterrupted power to protected equipment throughout battery replacement.
Automatic restart of loads after UPS shutdown	Automatically starts up the connected equipment upon the return of utility power.

Manageability

InfraStruXure Manager compatible	Enables centralized management via APC's InfraStruXure Manager.
Network manageable	Provides remote management of the UPS over the network.
SmartSlot	Customize UPS capabilities with management cards.
LED status indicators	Quickly understand UPS status with indicators.
Serial Connectivity	Provides management of the UPS via a serial port.

Adaptability

Plug-and-Play external batteries	Ensures clean, uninterrupted power to the loads when adding extra runtime to the UPS.
Rack/Tower convertible	Protects the initial investment in the UPS when migrating from tower to rack-mount environment.
Flash-upgradeable firmware	Easy implementation of new firmware upgrades.

Serviceability

User-replaceable batteries	Enables simple upgrades and replacement of the Batteries.
Automatic self-test	Ensures early detection of potential problems by periodic testing of UPS components.
Predictive failure notification	Provides early-warning fault analysis ensuring proactive component replacement.
Disconnected battery notification	Warns when a battery is not available to provide backup power.
Audible alarms	Actively let you know if the unit is on battery, if the battery is low or if there is an overload condition.

Protection

Frequency and voltage regulation	Preserves battery life and maximizes runtime by correcting poor frequency and voltage conditions without discharging the battery.
Power conditioning	Protects connected loads from surges, spikes, lightning, and other power disturbances.
Input power factor correction	Minimizes installation costs by enabling the use of smaller generators and cabling.
Generator compatible	Ensures clean, uninterrupted power to the loads in the event of an extended power outage
Cold-start capable	Provides temporary battery power when the utility power is out.
Resettable circuit breakers	Enables quick recovery from UPS overload events.
Safety-agency approved	Ensures product testing and approval to work safely with the connected loads and within the environment.

Technical Specifications

Output

Output power capacity	2000 VA
Output power capacity	1400 watts
Max Configurable Power	2000 VA
Max Configurable Power	1400 watts
Nominal output voltage	230V
Output Voltage Note	Configurable for 220 : 230 or 240 nominal output voltage
Efficiency at full load	90 %
Output Voltage Distortion	less than 3%
Output Frequency (sync to mains)	50/60 Hz +/- 3Hz user adjustable +/- 0.1
Crest Factor	3 : 1
Waveform type	Sinewave

Output Connections	(6) IEC 320 C13
	(3) IEC Jumpers



Input

Bypass	Built-in Bypass
Nominal input voltage	230V
Input frequency	50/60 Hz +/- 5 Hz (auto sensing) Hz
Input Connection Type	IEC-320 C20 Schuko CEE 7 / EU1-16P British BS1363A
Cord Length	8 feet (2.44 meters)
Input voltage range for main operations	160 - 280 V
Input voltage adjustable range for mains operation	100 - 280 V
Other Input Voltages	220, 240

Batteries & Runtime

Battery type	Maintenance-free sealed Lead-Acid battery with suspended electrolyte : leakproof
Battery Modules Shipped with Unit	1
Replacement battery cartridge	RBC31
RBC™ Quantity	1
Typical backup time at half load	14.2 minutes (700 Watts)
Typical backup time at full load	4.1 minutes (1400 Watts)
Runtime Chart	Smart-UPS RT
Extended run options	APC Smart-UPS RT 2000VA RM 230V

Communications & Management

Interface port	DB-9 RS-232 , SmartSlot
Available Smart Slot Interface Quantity	1
Control panel	LED status display with load and battery bar-graphs and On Line : On Battery : Replace Battery : Overload and Bypass Indicators
Audible alarm	Alarm when on battery : distinctive low battery alarm : overload continuous tone alarm
Emergency Power Off (EPO)	Optional

Physical

Maximum height	3.35 inches (85 mm)
Maximum width	17.00 inches (432 mm)
Maximum depth	19.00 inches (483 mm)
Rack Height	2 U
Net weight	55.00 lbs. (25.00 kg)
Shipping Weight	65.60 lbs. (29.82 kg)
Shipping Height	11.25 inches (286 mm)
Shipping Width	24.82 inches (630 mm)
Shipping Depth	23.38 inches (594 mm)
Color	Black
Units per Pallet	12.00

Surge Protection and Filtering

Surge energy rating	420 Joules
Filtering	Full time multi-pole noise filtering : 0.3% IEEE surge let-through : zero clamping response time : meets UL 1449

Environmental

Operating Environment	0 - 40 °C (32 - 104 °F)
Operating Relative Humidity	0 - 95 %
Operating Elevation	0-10000 feet (0-3000 meters)
Storage Temperature	-20 - 50 °C (-4 - 122 °F)
Storage Relative Humidity	0 - 95 %
Storage Elevation	0-50000 feet (0-15000 meters)
Online thermal dissipation	652 BTU/hr

Conformance

Approvals	C-tick , CE , EN 50091-1 , EN 50091-2 , EN 55022 Class A , EN 60950 , EN 61000-3-2 , GOST , PCBC , VDE
Standard warranty	2 years repair or replace , optional on-site warranties available , optional extended warranties available