

Smart-UPS On-Line

High-density, double-conversion on-line power protection with scalable runtime



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

Smart-UPS™ On-Line provides high-density, true double-conversion on-line power protection for servers, voice/data networks, medical labs, and light industrial applications. Capable of supporting loads from 1 to 3 kVA in a rack/tower convertible form (tower only for the 1 kVA model). When business-critical systems require runtime in hours, not minutes, Smart-UPS On-Line, 2 kVA and 3 kVA models, can be configured with matching battery packs to comply with aggressive runtime demands. The included PowerChute™ management software provides unattended graceful shutdown of network operating systems. The entire Smart-UPS On-Line family provides value to customers with demanding power environments, including a very wide input voltage window, extremely tight output voltage regulation, frequency regulation, internal bypass, and input power factor correction.

Features and Benefits

Smart-UPS On-Line

Availability

Automatic internal bypass Supplies utility power to the connected loads in the event of a UPS overload condition or fault.

Scalable runtime Allows additional runtime to be quickly added as needed. (2 kVA and 3 kVA models)

Intelligent battery management Maximizes battery performance, life, and reliability through intelligent, precision charging.

Hot-swappable batteries Ensures clean, uninterrupted power to protected equipment while batteries are being replaced. (2 kVA and 3 kVA models)

Automatic restart of loads after UPS shutdown Automatically starts up the connected equipment upon the return of utility power.

Temperature-compensated battery charging Prolongs battery life by regulating the charge voltage according to battery temperature.

Manageability

Network manageable Provides remote management of the UPS over the network.

StruxureWare Manager compatible Enables centralized management via the APC StruxureWare™ Manager.

SmartSlot™ Customize UPS capabilities with management cards.

LED status indicators Quickly understand unit and power status with visual 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. (2 kVA and 3 kVA models)

Rack/tower convertible Protects the initial investment in the UPS when migrating from tower to rackmount environment. Tower only for 1 kVA model.

Serviceability

User-replaceable batteries Increases availability by allowing a trained user to perform upgrades and replacements of the batteries, reducing mean time to repair. (2 kVA and 3 kVA models)

Automatic self test Periodic battery self test ensures early detection of a battery that needs to be replaced.

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 Provides notification of changing utility power and UPS conditions.

Protection

Frequency and voltage regulation Gives higher application availability by correcting poor frequency and voltage conditions without using 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 protected equipment when generator power is used.

Cold-start capable Provides temporary battery power when the utility power is out.

Resettable circuit breaker Easy recovery from overloads; no need to replace a fuse.

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.

Product Accessories

Management Cards

#AP9610: Relay I/O SmartSlot Card

#AP9630: UPS Network Management Card

#AP9631: UPS Network Management Card with Environmental Monitoring

Rail Kits

#SURTRK5: Smart-UPS RC 19" Rail Kit for Smart-UPS RC 2 kVA and 3 kVA models

Battery Accessories

#SRC004: APC Smart-UPS RC 96 V Battery String

Battery Packs

#SRC96XLBP: Smart-UPS RC 96 V Battery Pack for Smart-UPS RC 2 kVA and 3 kVA models

#SRC96XLBP2S: Smart-UPS RC 96 V Battery Pack with two Battery Strings for Smart-UPS RC 2 kVA and 3 kVA models



SRC2000XLI/SRC3000XLI



SRC1000I



Runtime Estimates at Half and Full Load (minutes)

UPS VA	SRC1000I	SRC2000XLI	SRC3000XLI
Internal	13.6/5.2	14/5	11/5
(1) Battery Pack	n/a	94/36	75/30
(2) Battery Pack	n/a	329/152	225/101
(3) Battery Pack	n/a	512/239	345/157
(4) Battery Pack	n/a	705/330	471/215

APC voted "Best UPS" in multiple surveys:



CRN Channel Champion Award



PCQuest Users' Choice



CHIP Best Performance UPS

Technical Specifications

UPS VA	SRC1000 I	SRC2000XLI	SRC3000XLI
Output			
Topology	Double-conversion On-line		
Nominal Output Voltage	230 V (Configurable for 220 : 230 or 240 nominal output voltage)		
Efficiency at Full Load	88%	89%	
Output Frequency (sync to mains)	47 – 63 Hz		
Output Power Capacity	800 W	1400 W	2100 W
Output Connections	(8) IEC 320 C13	(1) Hard Wire 3-wire (H, N + G) and (8) IEC 320 C13	
Input			
Nominal Input Voltage	230 V		
Input Frequency	45 – 65 Hz (auto sensing)		
Input Connections	(1) IEC 320 C20		
Bypass	Internal Bypass (Automatic)		
Battery			
Battery Type	Maintenance-free sealed lead-acid battery with suspended electrolyte : leakproof		
Charging Current	90 W (2.2 A)	170 W (1.5 A)	250 W (2.3 A)
Nominal DC Voltage	36 VDC	96 VDC	
Replacement Battery	n/a	APCRBC121	APCRBC120
Runtime	Runtimes vary with load. See chart on the previous page.		
Communications and Management			
Interface Port(s)	DB-9 RS-232, SmartSlot		
Emergency Power Off (EPO)	Yes		
Control panel	LED Status Display		
Physical			
Maximum Height (Tower)	257 mm	432 mm	
Maximum Height (Rack)	n/a	4U	
Maximum Width	166 mm	175 mm	
Maximum Depth	420 mm	457 mm	
Maximum Weight	14.82 kg	26.30 kg	

