

Smart-UPS On-Line

1-3kVA 120V

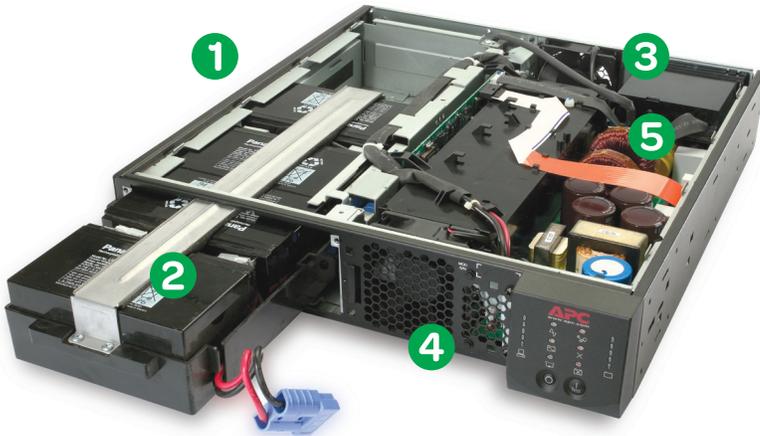
High-density, double-conversion, on-line power protection with scalable runtime



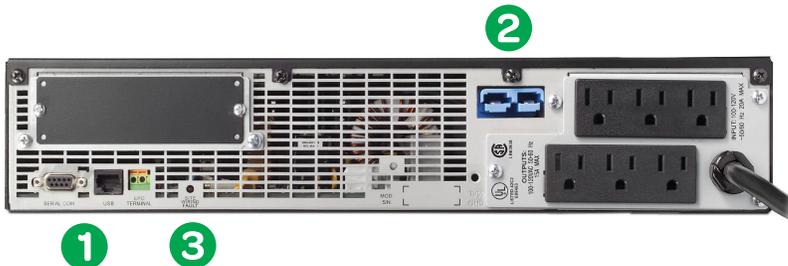
A versatile UPS developed for the harshest power conditions in the world

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, the Smart-UPS On-Line is available in 2U and 3U rack height. When business-critical systems require runtime in hours, not minutes, Smart-UPS On-Line 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 very wide input voltage window, extremely tight output voltage regulation, frequency regulation, internal bypass, and input power factor correction.

Features and Benefits



- 1 Rack/Tower Convertible**
Ensures integration in various environments
- 2 Hot-Swappable/User-Replaceable**
Ensures continuous operation of the load even when the batteries are being replaced
- 3 Double-Conversion**
Provides tight voltage and frequency regulation and zero transfer time for reactive loads (machinery, lab equipment, etc.)
- 4 Advanced 16-Segment LED Display**
Unit and power status easily understood through visual indicators
- 5 Frequency and Voltage Regulation**
Gives higher application availability by correcting poor frequency and voltage conditions without using the battery



- 1 Serial Connectivity**
Enables quick and easy configuration of the UPS
- 2 Scalable Runtime**
Allows additional runtime to be quickly added as needed
- 3 Built-In Automatic Bypass**
Ensures seamless power to the load even in the event of catastrophic UPS failure

Product Accessories

Management Cards

- AP9613: Relay I/O SmartSlot™ Card
- AP9622: Modbus/Jbus Interface Card
- AP9630: UPS Network Management Card
- AP9631: UPS Network Management Card with Environmental Monitoring
- AP9810: APC™ Dry Contact I/O Accessory



Backplate Kits

- SURT009: APC Smart-UPS RT 3000VA, 100-120VAC, Output Hardwire Kit

Rail Kits

- SURTRK: APC Smart-UPS RT 19" Rail Kit 1, 1.5 and 2.2 kVA
- SURTRK2: APC Smart-UPS RT 19" Rail Kit for Smart-UPS RT 3 kVA

Battery Packs

- SURTA48XLBP: APC Smart-UPS RT 48 V Battery Pack
- SURTA48RMXLBP2U: APC Smart-UPS RT 48 V RM Battery Pack
- SURT192XLBP: APC Smart-UPS RT 192 V Battery Pack
- SURT192RMXLBP3U: APC Smart-UPS RT 192 V RM Battery Pack



Service Bypass Panels

- SBP3000: APC Service Bypass Panel, 100 –240 V; 30 A; BBM; Hardwire Input/Output



Technical Specifications

UPS VA	1000	1500	2200	3000
Output				
Topology	Double Conversion On-Line			
Nominal Output Voltage	120 V			
Efficiency at Full Load	89%	89%	89%	91%
Output Frequency (sync to mains)	50/60 Hz +/- 3 Hz user adjustable			
Output Power Capacity	800 W	1,050 W	1,600 W	2,100 W
Output Connections	(6) NEMA 5 - 15R			(6) NEMA 5 - 15R; (2) NEMA 5 - 20R
Input				
Nominal Input Voltage	120 V			
Input Frequency	50/60 Hz +/- 5 Hz (auto sensing)			
Input Connections	5 - 15P	5 - 20P	L5 - 30P	
Bypass	Internal Bypass (Automatic)			
Battery				
Battery Type	Maintenance-free sealed lead-acid battery with suspended electrolyte: leak proof			
Replacement Battery	RBC57		RBC44	
Runtime	See Chart Below			
Communications and Management				
Interface Port(s)	DB-9 RS-232, SmartSlot, USB	RJ-45 10/100 Base-T, RJ-45 serie, SmartSlot	DB-9 RS-232, SmartSlot	
Emergency Power Off (EPO)	Yes			
Control Panel	LED			
Physical				
Rack Height	2U		3U	
Maximum Height	17 in.			
Maximum Width	3.35 in.		5.10 in.	
Maximum Depth	22 in.		26 in.	
Net Weight	60.50 lb.		120 lb.	

Runtime Estimates at Half and Full Load (minutes)

UPS VA	1000	1500	2200	3000
Internal	21.3/8	24/10	16/6	32/13
(1) Battery Pack	75/32	88/40	39/16	128/55
(2) Battery Packs	128/56	152/70	60/26	220/98
(3) Battery Packs	181/80	216/101	82/35	320/143
(4) Battery Packs	234/104	280/132	104/44	415/186