Smart-UPS On-Line

1-20 kVA

High-density, double-conversion online power protection with scalable runtime

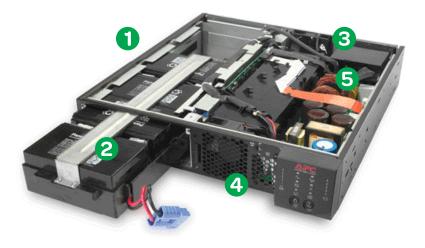


A versatile UPS developed for the harshest power conditions in the world

Smart-UPS™ On-Line provides high-density, true double-conversion online power protection for servers, voice/data networks, medical labs, and light industrial applications. Capable of supporting loads from 1 to 20 kVA in a rack/tower convertible form, the Smart-UPS On-Line is available from 2U to 12U. Recent family extensions at 15 and 20 kVA enable support of power hungry blade servers or heavily loaded equipment racks. When businesscritical 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. All models 5 kVA and above include an integrated network management card for remote management (optional on models below 5 kVA). 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



- Rack/Tower Convertible
 Ensures integration in various environments
- Hot-swap/User-replaceable Batteries
 Ensures continuous operation of the load even when the batteries are being replaced
- Double Conversion Online

 Provides tight voltage and frequency regulation and zero transfer time for reactive loads (machinery, lab equipment, etc.)
- Advanced 16-Segment LED Display

 Quickly understand unit and power status with visual indicators. (LCD on 15-20 kVA models)
- Frequency and Voltage Regulation
 Gives higher application availability by correcting poor frequency and voltage conditions without using the battery



UPS Network Management Card with Environmental Monitoring

Provides remote user interface, Manage via Web Browser, SNMP, and Telnet. Includes graceful unattended shutdown.

- Serial Connectivity

 Enables quick and easy configuration of the UPS.
- Scalable Runtime

 Allows additional run time to be quickly added as needed.
- Built-in Automatic and Manual Bypass

Ensures seamless power to the load even in the event of catastrophic UPS failure.

Field-replaceable Power Distribution Panels

Enable quick in-field modification of output receptacles to fit changing needs.

Product Accessories

Management Cards

AP9610: 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

Transformers

APTF10KW01: APC WW 10 kVA Isolation

Transformer

APTF20KW01: APC WW 20 kVA Isolation

Transformer

SURT001: APC Smart-UPS RT 3000VA 230V

Isolation Transformer

SURT002: APC Smart-UPS RT 5000VA 230V

Isolation Transformer

Backplate Kits

SURT007: APC Smart-UPS RT 3/5/6 kVA Input/ Output Hardwire Kit

SURTPD1: APC Smart-UPS RT 15/20 kVA 200-240V PDU with (8) IEC320 C13 and (2) IEC320 C19

SURTPD2: APC Smart-UPS RT 15/20 kVA 200-240V PDU with (4) IEC320 C19

SYPD10: Symmetra™ RM 230V Backplate Kit with (2) IEC320 C19 and (1) IEC 60309

Other

SURT013: SURT Equipment Cart

Rail Kits

SURTRK: APC Smart-UPS RT 482 mm Rail Kit 1-2.2 kVA

SURTRK2: APC Smart-UPS RT 482 mm Rail Kit for Smart-UPS RT 3/5/6/8/10 kVA

SURTRK4: APC Smart-UPS RT 482 mm Rail Kit for Smart-UPS RT 15/20 kVA

Battery Packs

SURT48XLBP: APC Smart-UPS RT 48V Battery Pack

SURT48RMXLBP: APC Smart-UPS RT 48V RM Battery Pack

SURT192XLBP: APC Smart-UPS RT 192V Battery Pack

SURT192RMXLBP: APC Smart-UPS RT 192V RM Battery Pack

SURT192RMXLBP2: APC Smart-UPS RT 192V RM Battery Pack 2 Rows

Service Bypass Panels

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

SBP6KRMI2U: APC Service Bypass Panel 230V; 50A; MBB; Hardwire Input; (4) IEC-320 C19 Output

SBP10KRMI4U: APC Service Bypass Panel 230V; 100A; MBB; Hardwire Input; IEC-320 Output (8) C13 (2) C19

SBP20KP: APC Service Bypass Panel 200/208/230/240V 125A HW Input/Output

SBP20KRMI4U: APC Service Bypass Panel 230V 125A HW Input IEC-320 Output (8) C19









Technical Specifications

UPS VA	1000	2000	3000	5000	6000	8000	10000	15000	20000		
Output							•		•		
Topology	Double Conversion On-Line										
Nominal Output Voltage	Configurable Configurable for 220 : 230 or 240 nominal output voltage 220 : 230 : 240 : nominal output v										
Efficiency at Full Load	Up to 92%										
Output Frequency (sync to mains)	50/60 Hz +/- 3 Hz user adjustable										
Output Power Capacity	700W	1400W	2100W	3500W	4200W	6400W	8000W	12kW	16kW		
Output Connections	(6) IEC 320 C13		(8) IEC 320 C13; (2) IEC		C 320 C19	(1) Hardwire 3-wire (H N + G); (4) IEC 320 C13; (4) IEC 320 C19		(1) Hardwire 3-wire (H N + G); (1) Hardwire 5-wire (3PH + N + G); (8) IEC 320 C19			
Input											
Nominal Input Voltage	230V 230V or							or 400V			
Input Frequency	45-65 Hz (auto sensing)										
Input Connections		61363A; IEC-: iko CEE 7/EU					re (1PH+N+G)		Hardwire 3-wire (1PH+N+G); Hardwire 5-wire (3PH + N + G)		
Bypass	Automatic and Manual (Built In)										
Battery											
Battery Type	Maintenance-free sealed lead-acid battery with suspended electrolyte: leak proof										
Replacement Battery	RBC57 RBC44										
Runtime	See Chart Below										
Communications and Man	agement										
Interface Port(s)		DB-9 RS-232, ImartSlot, USB RJ-45 10/100 Base-T, RJ-45 Serial, SmartSlot									
Pre-Installed SmartSlot Card	AP9631										
Emergency Power Off (EPO)	Yes										
Control panel	LEDs LCD Displa							Display			
Physical											
Rack Height	2	U		3U		6	SU .	1:	2U		
Maximum Height	432 mm										
Maximum Width	85	mm		130 mm		263 mm		432 mm			
Maximum Depth	483	mm		660 mm		736 mm		247.73 kg			
Net Weight	25.0	10 kg	54.55 kg 110.91 kg			91 kg	247.70 kg				

Runtime Estimates at Half and Full Load (minutes)

UPS VA	1000	2000	3000	5000	6000	8000	10000	15000	20000
Internal	32/14	17/6	34/14	18/6	16/5	20/7	15/5	22/8	15/5
(1) Battery Pack	122/69	67/30	122/57	70/31	49/21	48/21	37/15	53/23	38/15
(2) Battery Pack	257/129	121/56	217/102	125/58	88/40	76/35	60/26	84/38	60/27
(3) Battery Pack	360/180	177/83	315/150	183/85	130/60	106/49	83/38	117/54	85/38
(4) Battery Pack	480/240	234/110	416/199	242/113	172/80	136/63	107/49	150/69	104/50