Smart-UPS On-Line

1-20 kVA

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

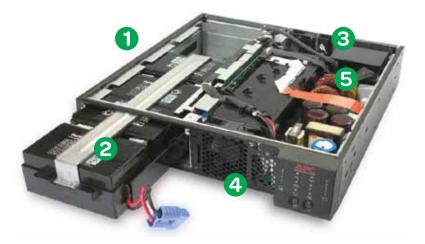


A versatile UPS developed for the harshest power conditions in the world

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 2 U to 12 U. The 15 kVA and 20 kVA models enable support of power hungry blade servers or heavily loaded equipment racks. 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. 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 a 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 61

Ensures integration in various environments

Hot-swappable/User-replaceable Batteries 2 Ensures continuous operation of the load even when the batteries are being replaced

Double-conversion Online 3

and zero transfer time for reactive loads (machinery, lab equipment, etc.)

Quickly understand unit and power status with

Frequency and Voltage Regulation (5

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, managed via web browser, SNMP, and Telnet. Includes graceful unattended shutdown. The UPS Network Management Card is pre-installed on UPS models

Enables quick and easy configuration of the UPS

Allows additional run time to be quickly

Built-in Automatic (4) and Manual Bypass

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

Field-replaceable Power 5 **Distribution Panels**

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

Product Accessories

Management Cards

AP9610: Relay I/O SmartSlot™ Card (Not compatible with SURTD UPS models)

AP9622: Modbus[®]/Jbus Interface Card (Not compatible with SURTD UPS models)

AP9630: UPS Network Management Card

AP9631: UPS Network Management Card with

AP9620: Legacy Communications SmartSlot Card

Transformers

APTF10KW01: APC WW 10 kVA Isolation Transformer

Transformer

SURT002: APC Smart-UPS RT 5000 VA 230 V Isolation Transformer

Backplate Kits

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

SYPD10: Symmetra™ RM 230 V Backplate Kit with (2) IEC 320 C19 and (1) IEC 60309

C13 (2) C19

(4 2 0

Provides tight voltage and frequency regulation

Advanced 16-segment LED Display 4

visual indicators. (LCD on 15 – 20 kVA models)



Rail Kits and 2 kVA

Environmental Monitoring

AP9810: APC[™] Dry Contact I/O Accessory (Not compatible with SURTD UPS models)

(Compatible with SURTD UPS models only)

APTF20KW01: APC WW 20 kVA Isolation

SURT001: APC Smart-UPS RT 3000 VA 230 V Isolation Transformer

Other

SURT013: SURT Equipment Cart

- SURTRK: APC Smart-UPS RT 482 mm Rail Kit 1 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 48 V **Battery Pack**
- SURT48RMXLBP: APC Smart-UPS RT 48 V **RM Battery Pack**
- SURT192XLBP: APC Smart-UPS RT 192 V Battery Pack
- SURT192RMXLBP: APC Smart-UPS RT 192 V **RM Battery Pack**
- SURT192RMXLBP2: APC Smart-UPS RT 192 V RM Battery Pack 2 Rows

Service Bypass Panels

- SBP3000: APC Service Bypass Panel 100 240 V; 30 A; BBM; Hardwire Input/Output
- SBP6KRMI2U: APC Service Bypass Panel 230 V; 50 A; MBB; Hardwire Input; (4) IEC 320 C19 Output
- SBP10KRMI4U: APC Service Bypass Panel 230 V; 100 A; MBB; Hardwire Input; IEC 320 Output (8)
- SBP20KP: APC Service Bypass Panel 200/208/230/240 V 125 A HW Input/Output
- SBP20KRMI4U: APC Service Bypass Panel 230 V 125 A HW Input IEC 320 Output (8) C19









Technical Specifications

UPS VA	1000	2000	3000	5000	6000	8000	10000	15000	20000	
Output										
Тороlоду				Doub	le-conversion (Online				
Nominal Output Voltage	Configurable for 220 : 230 or 240 nominal output voltage 220 : 230 : 240 : 400 V nominal output voltage									
Efficiency at Full Load	Up to 92%									
Output Frequency (sync to mains)	50/60 Hz +/- 3 Hz user adjustable									
Output Power Capacity	700 W	1400 W	2100 W	3500 W	4200 W	6400 W	8000 W	12 kW	16 kW	
Output Connections	(6) IEC	320 C13	(8) IEC 320 C13; (2) IEC 320 C19			(1) Hardwire 3-wire (H + N + G); (4) IEC 320 C13; (4) IEC 320 C19 (8) IEC 32			; (1) Hardwire PH + N + G);	
Input										
Nominal Input Voltage	230 V					230 V or 400 V				
Input Frequency	45 – 65 Hz (auto sensing)									
Input Connections		S1363A; IEC 3 uko CEE 7/EU				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 Mar	nagement									
Interface Port(s)	DB-9 RS-232, SmartSlot, 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 Disp						Display			
Physical										
Rack Height	2 U		3 U			6	U	1:	2 U	
Maximum Height				432 mm				533	í mm	
Maximum Width	85 mm		130 mm			263	mm	432	2 mm	
Maximum Depth	483 mm		660 mm		736	mm	773	mm		
Net Weight	25.00 kg		54.55 kg			110.9	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

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