

APC Smart-UPS

Advanced line interactive power protection for servers and network equipment



The world's most popular network and server UPS

Award-winning Smart-UPS protects critical data by supplying reliable, network-grade power in either traditional tower or rack-optimized convertible form factor. Included PowerChute™ management software provides IT administrators the comfort of safe system shutdown and advanced UPS management.



Tower 750-3000 VA

Standard features:

- 1 Alpha/numeric LCD display**
Intuitive interface provides detailed and accurate information with ability to configure locally.
- 2 High efficiency green mode**
Optimum efficiency which saves utility and cooling costs.
- 3 Network grade power conditioning**
Extended range automatic voltage regulation (AVR), noise filtering, and surge protection.
- 4 Advanced battery management**
Temperature compensated charging extends life and advanced algorithms recommend replacement date.
- 5 Communication ports**
Serial, USB, and SmartSlot for accessory cards.
- 6 Switched outlet group**
Reboot hung devices, shed non-critical loads to conserve runtime, sequenced start-up/turn off.
- 7 Battery disconnect**
Convenient way to disconnect battery for transport.

APC Smart-UPS Extended Run

Convertible extended run models ideal for critical servers and voice/data switches



Extended Run 750 – 1,500 VA



Additional features from standard:

- 1 Slim 2U Rack/tower convertible form**
Display rotates easily for use in or out of a rack.
- 2 High-frequency design**
Reduces size of (or eliminates) bulky transformers making installation even easier.
- 3 Models available with pre-installed network cards**
Models with “NC” suffix have pre-installed AP9631 network cards with temperature monitoring.
- 4 Smart external battery connector**
Accept external batteries and increases runtime automatically to increase availability.
- 5 Switched outlet groups**
Reboot hung devices, shed non-critical loads to conserve runtime, sequenced start-up/turn off.
- 6 Emergency power off (EPO)**
Provides for remote UPS shutoff in the event of a fire or other emergency.

APC Smart-UPS display

Intuitive, easy to use LCD interface

- 1 LCD Display Screen**
Clear, consistent, and detailed information in your choice of basic or advanced menus.

Power Status

- Operating mode and efficiency
- Load VA/Watts/Amps
- Input/Output Voltage and frequency
- Battery capacity and runtime
- Energy meter and more

Control

- UPS and outlet group settings

Configuration

- Language
- Power quality setting
- Sensitivity
- Voltage transfer points
- Alarm, delay, and threshold settings

Test and diagnostics

- Initiate battery and runtime calibration tests

Logs

- See explanation of last ten transfers and faults

About

- UPS and replacement battery part numbers
- Serial numbers
- Battery install and suggested replacement dates

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Accept external batteries and increases runtime automatically to increase availability.

- 5 Switched outlet groups**
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On all SMT and SMX models

Standard tower models

Product feature	SMT750	SMT1000	SMT1500	SMT2200	SMT3000	
Output						
Power capacity	500 W/750 VA	670 W/1,000 VA	980 W/1,500 VA	1980 W/2,200 VA	2700 W/3,000 VA	
Nominal output voltage	120 V					
Output frequency	57-63Hz					
Wave form type	Sine wave					
Output connections	(6) NEMA 5-15R	(8) NEMA 5-15R		(8) NEMA 5-15R, (2) NEMA 5-20R		
Input						
Nominal input voltage	120 V					
Input voltage range for main operations (Max adjustable range)	82 - 144 V (75 - 154 V)					
Input frequency	50/60 Hz +/-3 Hz (auto sensing)					
Input connection	NEMA 5-15P, 6 ft. cord			NEMA 5-20P	NEMA L5-30P	
Batteries and runtime						
Battery type	Maintenance-free sealed lead-acid battery with suspended electrolyte; leak proof					
Typical backup time at 1/2 Load (minutes)	15.9	20.6	23.9	24.1	13.6	
Typical backup time at full Load (minutes)	4.6	6.1	6.7	6.7	5.5	
Replacement battery	RBC48	RBC6	RBC7	RBC55		
Communication and management						
Interface ports	Serial (RJ45), USB, and SmartSlot					
Control panel and audible alarms	Alpha-numeric LCD display with LED status indicators; alarm on battery, distinctive low battery alarm and configurable delays					
Emergency power off (EPO)	Optional			Yes		
Surge protection and filtering						
Surge energy rating	540 J	459 J				
Filtering	Full time multi-pole noise filtering: 0.3% IEEE surge let-through, zero clamping response time, meets UL1449					
Physical						
Maximum height (inches)	6.20	8.50	8.50	17.0	17.0	
Maximum width (inches)	5.40	6.70	6.70	7.7	7.7	
Maximum depth (inches)	14.10	17.3	17.3	21.5	21.5	
Net weight (pounds)	29	42	53	112	116	
Conformance						
Regulatory	UL 1778, FCC Part 15 Class A, CSA					
Warranty and equipment protection policy	3 years electronics, 2 years battery, and \$150,000 lifetime EPP					

Extended run rack/tower convertible models

Product feature	SMX750	SMX1000	SMX1500RM2U
Output			
Power capacity	500 W, 750 VA	800 W, 1,000 VA	1,200 W, 1,500 VA
Nominal output voltage	120 V		
Output frequency	57 – 63 Hz		
Wave form type	Sine wave		
Output connections	(8) 5-15R, (750 has 1 group, 1000 has 2, 1500 has 3)		
Input			
Nominal input voltage	120 V		
Input voltage range for main operations (Max adjustable range)	82 – 143 V (75 – 153 V)		
Input frequency	50/60 Hz +/-3 Hz (auto sensing)		
Input connection	NEMA 5-15P 8 ft. cord		
Batteries and runtime			
Battery type	Maintenance-free sealed lead-acid battery with suspended electrolyte; leak proof		
Typical backup time at half load (minutes)	24	20	14
Typical backup time at full Load (minutes)	12	8	5
Replacement battery	APCRBC116		APCRBC115
External Battery Pack	SMX48RMBP2U		
Communication and management			
Interface ports	Serial (RJ45), USB, and SmartSlot		
Control panel and audible alarms	Alphanumeric LCD display with LED status indicators; alarm on battery, distinctive low battery alarm, and configurable delays		
Emergency power off (EPO)	Yes		
Surge protection and filtering			
Surge energy rating	645 J		
Filtering	Full time multi-pole noise filtering: 0.3% IEEE surge let-through, zero clamping response time, meets UL 1449		
Physical			
Maximum height (inches)	3.5 (2U)		
Maximum width (inches)	17		
Maximum depth (inches)	19		
Net weight (pounds)	49	50	55
Conformance			
Regulatory	UL 1778, FCC Part 15 Class A, CSA		
Warranty and equipment protection policy	3 years electronics, 2 years battery, and \$150,000 lifetime EPP		

Smart-UPS On-Line

1.5 – 20 kVA rack/tower convertible 2U – 12U

Performance power protection with scalable runtime for space-constrained server rooms, and voice and data networks.

APC Smart-UPS On-Line is a family of high-density, performance UPS units for voice and data networks, server rooms, and light industrial applications. Capable of supporting up to 20 kVA in a 12U rack/tower convertible form, users can support power hungry blade servers or heavily loaded equipment racks. This flexible form factor allows standardization across multiple applications.

Features

- **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.
- **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:** Allows implementation of new firmware upgrades.
- **Network manageable:** Monitor and control the UPS and access environmental information remotely via included PowerChute software or the APC Network Management Card with temperature monitoring (included in all models above 3 kVA).
- **SmartSlot:** Customize UPS capabilities with management cards.
- **LED status indicators:** Enables quick understanding and response to visual indicators showing UPS status.
- **Serial connectivity:** Provides management of the UPS via a serial port.



Environments

Network closets: Convergence of voice and data makes availability all the more critical. High power internal chargers allow virtually unlimited additional matching battery packs to comply with aggressive runtime demands of business-critical systems.

Server rooms: Smart-UPS On-Line small footprint and versatile form factor is very much suitable to enhance availability of the small server rooms drawing single-phase power and supporting 5 – 10 racks worth of IT gear.

Light industrial: The on-line double conversion topology of Smart-UPS On-Line with input power factor correction is ideal for industrial applications protecting a small control or operations room requiring single-phase power. Even the smallest power disruptions can cause work flow disruptions causing thousands and even millions of dollars of damage.

Smart-UPS On-Line specifications

Available models	Runtime half/full load (minutes)	Watt capacity	Input	Output*	Integrated network management card
Smart-UPS On-Line 1,500 VA	22/8	1,050	5-15P	(6) 5-15	
Smart-UPS On-Line 2,000 VA	15/5	1,400	5-20P	(6) 5-15	
Smart-UPS On-Line 3,000 VA	34/14	2,100	L5-30P (120 V), L6-30P (208 V)	(6) 5-15, (2) 5-20 (120 V), (2) L6-20, (2) L6-30 (208 V)	
Smart-UPS On-Line 5,000 VA (208 V/120 V)	12/4	4,000	L14-30P	(4) 5-20, (2) L6-30, L14-30	×
Smart-UPS On-Line 6,000 VA (208 V/120 V)	11/3	4,200	L14-30P	(4) 5-20, (2) L6-30, L14-30	×
Smart-UPS On-Line 5,000 VA	16/6	3,500	L6-30P	(2) L6-20, L6-30	×
Smart-UPS On-Line 6,000 VA	15/5	4,200	L6-30P	(2) L6-20, L6-30, (1) Hardwire (2P & G)	×
Smart-UPS On-Line 8,000 VA	18/6	6,400	Hardwire (2PH & G)	(2) L6-20, (2) L6-30, (1) Hardwire (2P & G)	×
Smart-UPS On-Line 10,000 VA	13/4	8,000	Hardwire (2PH & G)	(2) L6-20, (2) L6-30, (1) Hardwire (2P & G)	×
Smart-UPS On-Line 15,000 VA	22/8	12,000	Hardwire (2PH & G)	(2) L6-20, L6-30, (1) Hardwire (2P & G)	×
Smart-UPS On-Line 20,000 VA	15/5	16,000	Hardwire (2PH & G)	(2) L6-20, L6-30, (1) Hardwire (2P & G)	×

Available optional products

Output stepdown transformer

Output stepdown transformers for use with Smart-UPS On-Line



3,000/5,000/6,000/8,000/10,000 VA models

Steps down 208 V to 120 V

SURT003 Tower stepdown/isolation transformer, rated at 5,000 VA, rack-mountable with rail kit (SURTRK2), 3U inside rack

AP9626 Rack optimized stepdown transformer, rated at 5,000 VA, 2U inside rack

Battery packs

An unlimited number of rack/tower convertible external battery packs can be added to achieve desired levels of runtime. Smart-UPS On-Line battery packs are hot-swappable so you never have to bring down your mission critical loads to service the unit.

SURT192XLBP battery pack for Smart-UPS On-Line 3,000/5,000/6,000/8,000/10,000 VA models, 3U inside the rack

SURTA48XLBP battery pack for APC Smart-UPS On-Line 1,500/2,000 VA models, 2U inside the rack

Rail kits

AP9625 two-post rail kit for Smart-UPS On-Line



SURTRK four-post rail kit for Smart-UPS On-Line 1,500/2,000 VA models and SURTA48XLBP

SURTRK2 four-post rail kit for Smart-UPS On-Line 3,000/5,000/6,000/8,000/10,000 VA models, SURT192XLBP, SURT003, and AP9626