

Smart-UPS On-Line 120/208 V

Provides online power protection
for servers, voice/data networks,
medical labs, and critical applications



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by Schneider Electric



A versatile UPS developed for unstable power conditions worldwide

Smart-UPS™ On-Line provides high-density, double-conversion online power protection for servers, voice/data networks, medical labs, and light industrial applications. The Smart-UPS On-Line is capable of supporting loads from 1kVA to 3kVA in a rack/tower convertible chassis. When business-critical systems require runtime in hours, not minutes, Smart-UPS On-Line can be configured with multiple battery packs to meet aggressive runtime demands.

The included PowerChute™ Network Shutdown management software provides unattended graceful shutdown of network operating systems. NC Models include an integrated network management card for remote management. The entire Smart-UPS On-Line family provides value to customers with demanding power conditions, including a very wide input voltage window, extremely tight output voltage regulation, frequency regulation, internal bypass, and input power factor correction.

Smart-UPS On-Line

Industry-leading power factor maximizing UPS density
Rackmount and Tower SRT 1kVA – 3kVA



SRT5KXLT shown

Standard features

Best-in-class power density

More real power in watts, 0.9 pf on the 1kVA and 1.5 kVA, 0.82 pf on the 2.2kVA, 0.9 pf on the 3kVA Unify power factor on the XLI 1kVA and 1.5 kVA models

High-efficiency “Green Mode”

Achieves 97% efficiency, which saves utility and cooling costs without compromising performance or reliability. Energy Star® compliant.

Graphical LCD display with multicolor backlight

Intuitive interface provides detailed and accurate information with ability to configure locally.

Intelligent battery management

Temperature-compensated charging extends life and advanced algorithms recommend replacement date. The UPS can inform the user which batteries need to be replaced and auto detect when additional battery packs are added.

Built-in energy meter

Measures energy use and displays UPS efficiency in various modes of operation for easy energy tracking.

Operate without battery

Ability to immediately protect equipment when power returns after a complete discharge of the battery.

Three-year warranty on electronics

Additional year of warranty protection for electronics provides peace of mind.



Checklist			
1. All equipment is calibrated	10/10	10/10	10/10
2. All equipment is maintained	10/10	10/10	10/10
3. All equipment is safe to use	10/10	10/10	10/10
4. All equipment is clean	10/10	10/10	10/10
5. All equipment is properly labeled	10/10	10/10	10/10
6. All equipment is properly stored	10/10	10/10	10/10
7. All equipment is properly used	10/10	10/10	10/10
8. All equipment is properly disposed of	10/10	10/10	10/10
9. All equipment is properly documented	10/10	10/10	10/10
10. All equipment is properly maintained	10/10	10/10	10/10
11. All equipment is properly calibrated	10/10	10/10	10/10
12. All equipment is properly maintained	10/10	10/10	10/10
13. All equipment is properly safe to use	10/10	10/10	10/10
14. All equipment is properly clean	10/10	10/10	10/10
15. All equipment is properly labeled	10/10	10/10	10/10
16. All equipment is properly stored	10/10	10/10	10/10
17. All equipment is properly used	10/10	10/10	10/10
18. All equipment is properly disposed of	10/10	10/10	10/10
19. All equipment is properly documented	10/10	10/10	10/10
20. All equipment is properly maintained	10/10	10/10	10/10

Smart-UPS On-Line

Proven performance with the world's largest installed base of single-phase, double-conversion products
Rackmount and Tower SRT 1kVA – 3kVA



SRT3000RMXLA-NC shown

Additional features

Embedded network management card on the (NC models)

Remote monitoring and control of the UPS and the environment via Ethernet connection while freeing up the SmartSlot™ so customers can add accessories for additional communication options.

Switched outlet group(s)

Ability to control a group of output load receptacles independent from the main UPS. Enables:

- Rebooting hung device without cycling the entire UPS
- Sequenced turn on/off
- Shedding of noncritical loads based on a variety of parameters (battery time, runtime remaining, and overload)
- Scheduled time off to conserve energy

Emergency power off (EPO)

Remote UPS shutoff in the event of a fire or other emergency. The UPS can accept normally open (NO) or normally closed (NC) contacts.

Communication ports

Serial, USB, Ethernet, and SmartSlot for network accessory cards.

Communication protocols

Modbus Serial, USB PowerSummary, HTTP, SNMP, and Telnet.

Intuitive, easy-to-use LCD provides clear and accurate information in multiple languages



Backlight screens:

Amber: Indication of condition that requires attention

Red: Indication of UPS alarm that requires immediate attention

Standard features

LCD display screen

Accurately provides real-time status updates in your choice of basic or advanced menus.

UPS status (scrolling)

- Output voltage
- Input voltage
- Output frequency
- Run time
- Load
- Battery health

Control

- UPS and outlet group settings
- Bypass control

Configuration

- Output voltage, frequency
- Language, brightness, contrast
- Alarm volume
- IP address

Test and diagnostics

- Initiate battery and runtime calibration tests

About

- UPS serial number, battery part number
- Battery install and suggested replacement dates

Product accessories

Management cards

- AP9630: UPS network management card with PowerChute network shutdown
- AP9631: UPS network management card with PowerChute network shutdown & environmental monitoring
- AP9335TH: APC™ by Schneider Electric™ temperature & humidity sensor
- AP9810: APC dry contact I/O accessory
- AP9624: UPS interface expander
- AP9613: dry contact I/O SmartSlot card

Battery packs

- SRT72BP: APC Smart-UPS SRT 72 V 2.2 kVA battery pack
- SRT72RMBP: APC Smart-UPS SRT 72 V 2.2 kVA RM battery pack
- SRT96BP: APC Smart-UPS SRT 96 V 3 kVA battery pack
- SRT96RMBP: APC Smart-UPS SRT 96 V 3 kVA RM battery pack
- SRT009: APC Smart-UPS SRT 15 ft. extension cable for 96 VDC external battery pack 2.2 kVA UPS

- SRT010: APC Smart-UPS SRT 15 ft. extension cable for 96 VDC external battery pack 3 kVA UPS

Rail kits

- SRTRK2: APC Smart-UPS SRT 19 inch rail kit for Smart-UPS SRT 5/6/8/10 kVA
- SRTRK3: APC Smart-UPS SRT 2 post mounting rail kit for Smart-UPS SRT 2.2/3/5/8/10 kVA
- SRTRK4: APC Smart-UPS SRT 19 inch rail kit for Smart-UPS SRT 2.2/3 kVA

Backplate kit

- SRT001: APC Smart-UPS SRT 5 kVA output HW kit
- SRT004: APC Smart-UPS SRT 5 kVA PDU, 208 V (4) L6-20
- SRT005: APC Smart-UPS SRT 6 kVA PDU, 208 V (4) L6-20, (1) L6-30
- SRT008: APC Smart-UPS SRT 8/10 kVA PDU, 208 V (6) L6-30
- SRT011: APC Smart-UPS SRT 3 kVA PDU, 208 V (3) L6-30
- SRT012: APC Smart-UPS SRT 2.2/3 kVA input/output HW kit

Other

- SURT013: SURT equipment cart

Replacement battery cartridge

- APCRBC142: RBC for SRT 2.2 kVA UPS
- APCRBC152: RBC for SRT 3 kVA UPS



Network management card



Rail kits



Battery pack

Runtime estimates at half and full load (minutes)

UPS Half/Full Loads	SRT1000XLA, SRT1000RMXLA, SRT1000RMXLA-NC	SRT1500XLA, SRT1500RMX- LA, SRT1500RMXLA-NC	SRT2200XLA (RM) (RM-NC) (900 W/1,800 W)	SRT3000XLA (RM) (RM-NC) (1,350 W/2,700 W)	SRT3000XLT (RM) SRT3000XLW-IEC (RM) SRT3000RMXLT-NC (1,350 W/2,700 W)
Internal	27/9.5	15/4.3	11.8/3.2	10.4/3.1	11.4/3.8
(1) Battery pack	86.1/40.5	50.5/22.6	50.5/19.9	45.6/17.1	46.4/20.5
Maximum quantity of external battery packs	10	10	10	10	10
External battery pack (Rack/Tower convertible)	SRT48BP	SRT48BP	SRT72BP/SRT72RMBP	SRT96BP/SRT96RMBP	SRT96BP/SRT96RMBP
Replacement battery	APCRBC155	APCRBC155	APCRBC141	APCRBC152	APCRBC152

Smart-UPS On-Line SRT 1000VA and SRT 1500VA 120V

Technical specifications

Product features	SRT1000XLA, SRT1000RMLA, SRT1000RMLA-NC (Pre-installed NMC, AP9631)	SRT1500XLA, SRT1500RMLA, SRT1500RMLA-NC (Pre-installed NMC, AP9631)
Output		
Power rating	1000VA / 900W	1500VA / 1350kW
Nominal output voltage	120V	
Output frequency	50/60 Hz ± 3 Hz (auto sense) 50/60 Hz ± 0.1 Hz (user selectable)	
Topology	Double-conversion Online	
Online efficiency at full load (typical)	91.5% (ENERGY STAR)	
Green mode efficiency at full load (typical)	96%	95%
Output connections (switched groups)	(6) NEMA 5-15R	(6) NEMA 5-15R
Input		
Nominal input voltage	120 V	
Input voltage range full load (half load)	80V -150VAC ±5V (50 – 150 VAC ±5V)	108 V – 150 VAC ±5V (50 – 150 VAC ±5V)
Input frequency	40 – 70 Hz auto-selecting	
Input connection	L5-20P	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 (min.)	27	15.5
Typical backup time at full load (min.)	9.5	4.3
Replacement battery (quantity)	APCRBC155 (1)	
External battery pack (tower/rackmount)	SRT48BP	
Communication and management		
Interface ports	Serial (RJ45), USB (Type A) and Smart-Slot	
Control panel	High resolution graphical LCD display	
Emergency power off (EPO)	Yes (NO/NC connections)	
Physical		
Rack height	3" (89mm), 2U	
Maximum width (RM)	17" (432mm)	
Maximum depth (RM)	21.5" (545mm)	
Net weight	20.5 kg	
Conformance		
Regulatory	UL-1778, FCC Part 15 Class A, CSA	
Warranty	3 years electronics, 2 years battery	

Smart-UPS On-Line SRT 2200VA and SRT 3000VA 120V

Technical specifications

Product features	SRT2200XLA - SRT2200RMXLA SRT2200RMXLA-NC (Pre-installed NMC, AP9631)	SRT3000XLA - SRT3000RMXLA SRT3000RMXLA-NC (Pre-installed NMC, AP9631)
Output		
Power rating	2200VA/1800W	3000VA/2700W
Nominal output voltage	120V	
Output frequency	50/60 Hz ± 3 Hz (auto sense) 50/60 Hz ± 0.1 Hz (user selectable)	
Topology	Double-conversion Online	
Online efficiency at full load (typical)	91.5% (ENERGY STAR)	
Green mode efficiency at full load (typical)	97%	
Output connections (switched groups)	(6) 5-20, (1) L5-20	(6) 5-20, (1) L5-30
Input		
Nominal input voltage	120 V	
Input voltage range full load (half load)	108 V – 150 VAC ±5V (50 – 150 VAC ±5V)	
Input frequency	40 – 70 Hz auto-selecting	
Input connection	L5-20P	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 (min.)	11.8	10.4
Typical backup time at full load (min.)	3.2	3.1
Replacement battery (quantity)	APCRBC141 (1)	APCRBC152 (1)
External battery pack (tower/rackmount)	SRT72BP/SRT72RMBP	SRT96BP/SRT96RMBP
Communication and management		
Interface ports	Serial (RJ45), USB (Type A) and Smart-Slot	
Control panel	High resolution graphical LCD display	
Emergency power off (EPO)	Yes (NO/NC connections)	
Physical		
Rack height	3.35" (85 mm), 2U	3.35" (85 mm), 2U
Maximum width (RM)	17" (432 mm)	17" (432 mm)
Maximum depth (RM)	22 inches/559 mm	25 " (636 mm)
Net weight	55 lb (24.95 kg)	69 lb (31.3 kg)
Conformance		
Regulatory	UL-1778, FCC Part 15 Class A, CSA	
Warranty	3 years electronics, 2 years battery	

Smart-UPS On-Line SRT 3000VA 208V

Technical specifications

Product features	SRT3000XLW-IEC SRT3000RMXLW-IEC	SRT3000XLT - SRT3000RMXLT SRT3000RMXLT-NC (Pre-installed NMC, AP9631)
Output		
Power rating	3000VA/2700W	
Nominal output voltage	230V (208V, 220V, 230V, 240V user selectable)	208V (240V user selectable)
Output frequency	50/60 Hz ± 3 Hz (auto sense) 50/60 Hz ± 0.1 Hz (user selectable)	
Topology	Double-conversion Online	
Online efficiency at full load (typical)	91% (ENERGY STAR)	
Green mode efficiency at full load (typical)	97%	
Output connections (switched groups)	(4) IEC 320 C13 (2) IEC 320 C19	(2) L6-20 (1) L6-30
Input		
Nominal input voltage	230V (208V, 220V, 240V user selectable)	208V (240V user selectable)
Input voltage range full load (half load)	160 – 275V (100 – 275V)	
Input frequency	40 – 70 Hz auto-selecting	
Input connection	IEC 60320 C20, Schuko CEE 7/EU1-16P, British BS1363A	L6-20P
Batteries and runtime		
Battery type	Maintenance-free sealed lead-acid battery with suspended electrolyte, leak proof	
Typical backup time at 1/2 load (min.)	11.8 min	11.4 min
Typical backup time at full load (min.)	4.0 min	3.8 min
Replacement battery (quantity)	APCRBC152 (1)	
External battery pack (tower/rackmount)	SRT96BP/SRT96RMBP	
Communication and management		
Interface ports	Serial (RJ45), USB (Type A) and Smart-Slot	
Control panel	High resolution graphical LCD display	
Emergency power off (EPO)	Yes (NO/NC connections)	
Physical		
Rack height	3.35" (85 mm), 2U	
Maximum width (RM)	17" (432 mm)	
Maximum depth (RM)	25" (636 mm)	
Net weight	69 lb (31 kg)	
Conformance		
Regulatory	CE, VDE, RCM, and EAC, IEC/EN 62040-1, IEC/EN 62040-2, UL-1778, FCC Part 15 Class A, CSA	UL-1778, FCC Part 15 Class A, CSA
Warranty	3 years electronics, 2 years battery	

Smart-UPS On-Line SRT 3000VA 120/208V

Technical specifications

Product features	SRT3000XLT-5KTF	SRT3000RMXLT-5KTF
Output		
Power rating	3000VA/2700W	
Nominal output voltage	120V and 208V (240 V user selectable)	
Output frequency	50/60 Hz ± 3 Hz (auto sense) 50/60 Hz ± 0.1 Hz (user selectable)	
Topology	Double-conversion Online	
Online efficiency at full load (typical)	91% (ENERGY STAR)	
Green mode efficiency at full load (typical)	97%	
Output connections (switched groups)	(8) 5-20, (4) L6-20, (1) L6-30, (1) L14-30	(12) 5-20, (2) L6-20
Input		
Nominal input voltage	208V (240V user selectable)	
Input voltage range full load (half load)	160 – 275V (100 – 275V)	
Input frequency	40 – 70 Hz auto-selecting	
Input connection	L6-20P	
Batteries and runtime		
Battery type	Maintenance-free sealed lead-acid battery with suspended electrolyte, leak proof	
Typical backup time at 1/2 load (min.)	11.4 min	
Typical backup time at full load (min.)	3.8 min	
Replacement battery (quantity)	APCRBC152 (1)	
External battery pack (tower/rackmount)	SRT96BP/SRT96RMBP	
Communication and management		
Interface ports	Serial (RJ45), USB (Type A) and Smart-Slot	
Control panel	High resolution graphical LCD display	
Emergency power off (EPO)	Yes (NO/NC connections)	
Physical		
Rack height	Tower	6.7" (170 mm) 4U
Maximum width (RM)	8.45" (215 mm)	17" (432 mm)
Maximum depth (RM)	26" (660 mm)	25" (636 mm)
Net weight	194 lb (87.82 kg)	164 lb (74.18 kg)
Conformance		
Regulatory	UL-1778, FCC Part 15 Class A, CSA	
Warranty	3 years electronics, 2 years battery	

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