Smart-UPS On-Line

208V

Unity output power factor single-phase double-conversion, online UPS with advanced management features

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 5kVA to 10kVA in a rack/tower convertible chassis. The 6kVA, 8kVA, and 10kVA models feature unity output power factor enabling them to support 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 multiple battery packs to meet aggressive runtime demands.

The included PowerChute™ Network Shutdown management software provides unattended graceful shutdown of network operating systems. All 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 5 kVA – 10 kVA

[SRT5KXLT shown]

Standard Features

Best-in-Class Power Density
More real power in watts, 0.85 pf on 5 kVA, Unity on 6 kVA -10 kVA units.

High-Efficiency "Green Mode"
Achieves 98% 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 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..

APC™
by **Schneider** Electric

Smart-UPS On-Line

Proven performance with the world's largest installed base of

single- phase, double-conversion products

Rackmount and Tower SRT 5 kVA – 10 kVA

[SRT10KXLT shown]

Additional Features

Embedded Network Management Card with Environmental Monitoring
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 non-critical loads based on a variety of parameters (on 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 SmartS lot for network accessory cards.

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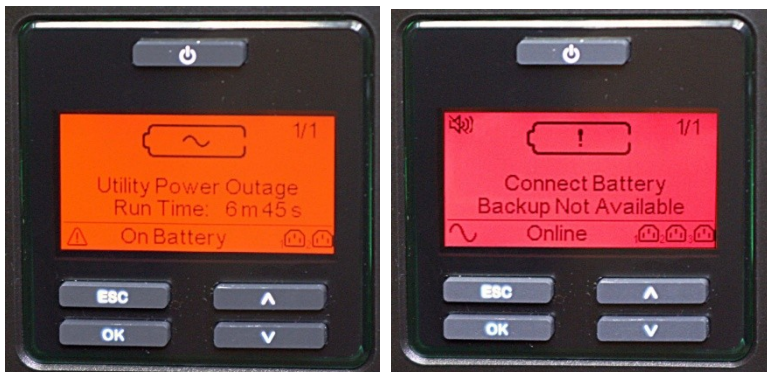 Modbus Serial, USB PowerSummary, HTTP, SNMP, and Telnet.

APC™
by Schneider Electric

Smart-UPS On-Line Display

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

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

Backlight screens:

Amber: Indication of condition that requires attention

Red: Indication of UPS alarm that requires immediate attention

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 Temperature & Humidity Sensor
AP9810: APC Dry Contact I/O Accessory
AP9624: UPS Interface Expander
AP9613: Dry Contact I/O SmartSlot Card

Battery Packs
SRT192BP: APC Smart-UPS SRT 192 V 5 kVA and 6 kVA Battery Pack
SRT192RMBP: APC Smart-UPS SRT 192 V 5 kVA and 6 kVA RM Battery Pack
SRT192BP2: APC Smart-UPS SRT 192 V 8 kVA and 10 kVA Battery Pack
SRT192RMBP2: APC Smart-UPS SRT 192 V 8 kVA and 10 kVA RM Battery Pack
SRT002: APC Smart-UPS SRT 15ft. Extension Cable for 192 VDC External Battery Packs 5/6 kVA UPS
SRT003: APC Smart-UPS SRT 15ft. Extension Cable for 192 VDC External Battery Packs 8/10 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 5/6/8/10 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

Service Bypass Panels
SBP5KRMT2U: APC Service Bypass Panel- 200/208/240 V; 30A; BBM; L6-30P input; (2) L6-30R (2) L6-20R output
SBP6KRMT2U: APC Service Bypass Panel- 200/208/240 V; 50A; MBB; L6-30P/HW input; (1) L6-30R (2) L6-20R output
SBP10KRMT4U: APC Service Bypass Panel- 200/208/240 V; 100A; MBB; Hardwire input; (3) L6-30R (3) L6-20R output

Step-Down Transformers
SRT5KTF: APC Smart-UPS SRT 5 kVA Tower Isolation/Step-Down Transformer
SRT5KRMTF: APC Smart-UPS SRT 5 kVA 2U RM Step-Down Transformer
SRT10KRMTF: APC Smart-UPS SRT 10 kVA 4U RM Step-Down Transformer

Other
SURT013: SURT Equipment Cart

Replacement Battery Cartridge
APCRBC140

Runtime Estimates at Half and Full Load (Minutes)

UPS Half / Full Loads	SRT5KRMXLW-HW 2,250 W / 4,500 W	SRT5KXLT (RM) SRT5KXLT-IEC (RM) 2,125 W / 4,250 W	SRT6KXLT (RM) SRT6KXLT-IEC (RM) 3,000 W / 6,000 W	SRT8KXLT (RM) SRT8KXLT-IEC (RM) 4,000 W / 8,000 W	SRT10KXLT (RM) SRT10KXLT-IEC (RM) 5,000 W / 10,000 W
Internal	11.8 / 4	12.6/4.4	8.3/ 2.3	14.4/ 5.2	11.4/ 3.7
(1) Battery Pack	46.2 / 20.5	49/21.8	34.7/ 14.9	34.2/ 14.6	27.9 / 11.5
(2) Battery Packs	83 / 38	87.8/40.4	62.9/ 28.3	55 / 24.4	45.1 / 19.7
(3) Battery Packs	121 / 56.4	128.1/59.7	92.1/ 42.2	76.4/ 34.6	62.8 28.1
(4) Battery Packs	160.4 / 75.1	169.5/79.5	122.1/ 56.5	98.3/ 45	81 / 36.7

Smart-UPS On-Line SRT 5 kVA and 6 kVA Technical Specifications

PRODUCT FEATURE	SRT5KRMXLW-HW	SRT5KXLT SRT5KRMXLT	SRT5KXLT-IEC SRT5KRMXLT-IEC	SRT6KXLT SRT6KRMXLT	SRT6KXLT-IEC SRT6KRMXLT-IEC
Output					
Power rating	5,000 VA/4,500 W	5,000 VA/4,250 W		6,000 VA/6,000 W	
Nominal Output Voltage	230V (208, 220, 230, 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)	94% (ENERGY STAR)				
Green Mode Efficiency at Full Load (typical)	98%				
Output Connections	HW	(2) L6-20R (2) L6-30R	(4) IEC 320 C13 (4) IEC 320 C19	(4) L6-20R (2) L6-30R, HW	(6) IEC 320 C13 (4) IEC 320 C19, HW
Input					
Nominal Input Voltage	230V (208, 220, 230, 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	Hardwire 3-wire (L1+L2/N+G)	L6-30P		Hardwire 3-wire (L1+L2+G)	
Batteries and Runtime					
Battery Type	Maintenance-free sealed lead-acid battery with suspended electrolyte, leak proof				
Typical Backup Time at ½ Load (min)	11.8 min.	12.6 min.		8.3 min.	
Typical Backup Time at full Load (min)	4 min.	4.4 min.		2.3 min.	
Replacement Battery (Quantity)	APCRBC140 (1)				
External Battery Pack (Tower/Rack Mount)	SRT192BP/SRT192RMBP				
Communication and Management					
Interface Ports	RJ-45 with Status LEDs (10/100 Base-T), Serial (RJ45), USB (Type B) and Smart-Slot				
Control Panel	High Resolution Graphical LCD display				
Emergency Power off (EPO)	Yes (NO/NC connections)				
Embedded Network Management	Yes, with Environmental Monitoring				
Physical					
Maximum Height Rack-Mount SKU Inches (mm)	5.1 (130) 3U			6.85 (174) 4U	
Maximum Width Rack-Mount SKU Inches (mm)	17 (432)			17 (432)	
Maximum Depth Rack-Mount SKU Inches (mm)	28.32 (719)			28.32 (719)	
Net Weight lbs (kg)	123 (55.8)			135 (61.25)	
Conformance					
Regulatory	CE, VDE, UL-1778, FCC Part 15 Class A, cUL	UL-1778, FCC Part 15 Class A, cUL			
Warranty	3 years electronics, 2 years battery				

Smart-UPS On-Line SRT 8kVA and 10 kVA Technical Specifications

PRODUCT FEATURES	SRT8KXLT SRT8KRMXLT	SRT8KXLT30 SRT8KRMXLT30	SRT8KXLT-IEC SRT8KRMXLT-IEC	SRT10KXLT SRT10KRMXLT	SRT10KXLT30 SRT10KRMXLT30	SRT10KXLT-IEC SRT10KRMXLT-IEC
Output						
Power Rating	8000VA/8000W			10000VA/10000W		
Nominal Output Voltage	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)	94% (ENERGY STAR)					
Green Mode Efficiency at Full Load (typical)	98%					
Output Connections	(4) L6-20R (2) L6-30R, HW	(6) L6-30R, HW	(6) IEC 320 C13 (4) IEC 320 C19, HW	(4) L6-20R (2) L6-30R, HW	(6) L6-30R, HW	(6) IEC 320 C13 (4) IEC 320 C19, HW
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	Hardwire 3-wire (L1+L2+G)					
Batteries and Runtime						
Battery Type	Maintenance-free sealed lead-acid battery with suspended electrolyte, leak proof					
Typical Backup Time at ½ Load (min)	14.4 min.			11.4 min.		
Typical Backup Time at Full Load (min)	5.2 min.			3.7 min.		
Replacement Battery (Quantity)	APCRBC140 (2)					
External Battery Pack (Tower/Rack Mount)	SRT192BP2 / SRT192RMBP2					
Communication and Management						
Interface Ports	RJ-45 with Status LEDs (10/100 Base-T), Serial (RJ45), USB (Type B) and Smart-Slot					
Control Panel	High Resolution Graphical LCD display					
Emergency Power off (EPO)	Yes (NO/NC connections)					
Embedded Network	Yes, with Environmental Monitoring					
Physical						
Maximum Height Rack-Mount SKU Inches (mm)	10.35 (263) 6U					
Maximum Width Rack-Mount SKU Inches (mm)	17 (432)					
Maximum Depth Rack-Mount SKU Inches (mm)	28.15 (715)					
Net Weight lbs (kg)	246 (111.82)					
Conformance						
Regulatory	UL-1778, FCC Part 15 Class A, CSA C22.2 No.107.3-05					
Warranty	3 years electronics, 2 years battery					

Smart-UPS On-Line SRT 5 kVA and 6 kVA 120/208V Technical Specifications

PRODUCT FEATURE	SRT5KXLT-5KTF	SRT5RMKXLT-5KTF	SRT6KXLT-5KTF	SRT6RMKXLT-5KTF
Output				
Power rating	5,000 VA/4,250 W		6,000 VA/6,000 W	
Nominal Output Voltage	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)	94% (ENERGY STAR)			
Green Mode Efficiency at Full Load (typical)	98%			
Output Connections	(8) 5-20, (4) L6-20, (2) L6-30, (1) L14-30	(12) 5-20, (2) L6-20, (1) L6-30	(8) 5-20, (4) L6-20, (3) L6-30, (1) L14-30, HW	(12) 5-20, (2) L6-20, (2) L6-30, HW
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	L6-30P		Hardwire 3-wire (L1+L2+G)	
Batteries and Runtime				
Battery Type	Maintenance-free sealed lead-acid battery with suspended electrolyte, leak proof			
Typical Backup Time at ½ Load (min)	12.6 min.		8.3 min.	
Typical Backup Time at full Load (min)	4.4 min.		2.3 min.	
Replacement Battery (Quantity)	APCRBC140 (1)			
External Battery Pack (Tower/Rack Mount)	SRT192BP/SRT192RMBP			
Communication and Management				
Interface Ports	RJ-45 with Status LEDs (10/100 Base-T), Serial (RJ45), USB (Type B) and Smart-Slot			
Control Panel	High Resolution Graphical LCD display			
Emergency Power off (EPO)	Yes (NO/NC connections)			
Embedded Network Management with Environmental Monitoring	Yes, with Environmental Monitoring			
Physical				
Rack Height	Tower	5U	Tower	6U
Maximum Height Inches (mm)	17 in (432 mm)	8.6 in (219 mm)	17 in (432 mm)	10.35 in (263 mm)
Maximum Width Inches (mm)	10.2 in (260 mm)	17.5 in (445 mm)	11.95 in (304 mm)	17 in (432 mm)
Maximum Depth Inches (mm)	28.32 in (719.4 mm)	28.32 in (719.4 mm)	28.32 in (719.4 mm)	28.32 in (719.4 mm)
Net Weight lbs (kg)	248 lbs (112.62 kg)	218 lbs (98.98 kg)	260 lbs (118.07 kg)	230 lbs (104.43 kg)
Conformance				
Regulatory	UL-1778, FCC Part 15 Class A, cUL			
Warranty	3 years electronics, 2 years battery			

Smart-UPS On-Line SRT 8 kVA and 10 kVA 120/208V Technical Specifications

PRODUCT FEATURES	SRT8KXLT-5KTF	SRT8KRMXLT-5KTF	SRT10KRMXLT-10KTF	SRT10KXLT-5KTF2	SRT10KRMXLT-5KTF2
Output					
Power Rating	8000VA/8000W		10000VA/10000W		
Nominal Output Voltage	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)	94% (ENERGY STAR)				
Green Mode Efficiency at Full Load (typical)	98%				
Output Connections	(8) 5-20, (6) L6-20, (2) L6-30, (1) L14-30, HW	(12) 5-20, (4) L6-20, (1) L6-30, HW	(4) L6-20, (2) L6-30, (2) L5-20, (2) L14-30, HW 3-wire (2PH + G), HW 4-wire (2PH + N +G)	(16) 5-20, (4) L6-20, (6) L6-30, (2) L14-30,HW	(24) 5-20, (4) L6-30, HW
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	Hardwire 3-wire (L1+L2+G)				
Batteries and Runtime					
Battery Type	Maintenance-free sealed lead-acid battery with suspended electrolyte, leak proof				
Typical Backup Time at ½ Load (min)	14.4 min.		11.4 min.		
Typical Backup Time at Full Load (min)	5.2 min.		3.7 min.		
Replacement Battery (Quantity)	APCRBC140 (2)				
External Battery Pack (Tower/Rack Mount)	SRT192BP2 / SRT192RMBP2				
Communication and Management					
Interface Ports	RJ-45 with Status LEDs (10/100 Base-T), Serial (RJ45), USB (Type B) and Smart-Slot				
Control Panel	High Resolution Graphical LCD display				
Emergency Power off (EPO)	Yes (NO/NC connections)				
Embedded Network Management	Yes, with Environmental Monitoring				
Physical					
Rack Height	Tower	8U	10U	Tower	10U
Maximum Height Inches (mm)	17 in (432 mm)	13.85 in (352 mm)	17.25 in (438 mm)	17 in (432 mm)	17.35 in (441 mm)
Maximum Width Inches (mm)	15.45 in (393 mm)	17.5 in (445 mm)	17 in (432 mm)	20.55 in (523 mm)	17.5 in (445 mm)
Maximum Depth Inches (mm)	28.15 in (715 mm)	28.15 in (715 mm)	29.5 in (749 mm)	28.15 in (715 mm)	28.15 in (715 mm)
Net Weight lbs (kg)	371 lbs (168.4 kg)	341 lbs (154.76 kg)	466 lbs (211.58 kg)	496 lbs (225.22 kg)	436 lbs (197.94 kg)
Conformance					
Regulatory	UL-1778, FCC Part 15 Class A, CSA C22.2 No.107.3-05				
Warranty	3 years electronics, 2 years battery				