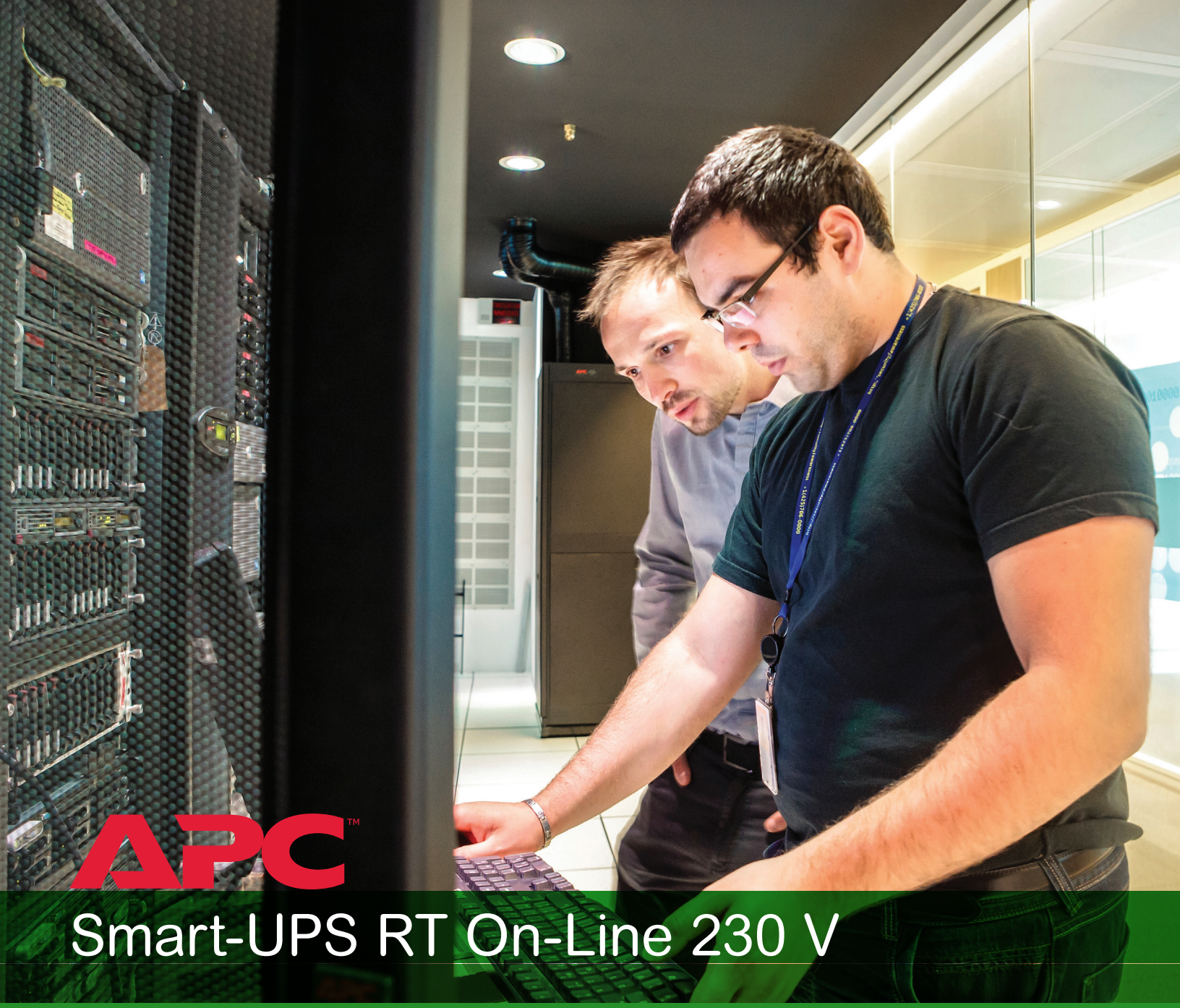


Smart-UPS RT On-Line 230 V

5 – 20 kVA Product Brochure

Ideal for a range of applications, from network and server rooms to branch offices and secure power uses, the new APC™ Smart-UPS RT On-Line provides high-density, double-conversion on-line power protection, scalable runtime, and affordability without sacrificing quality.

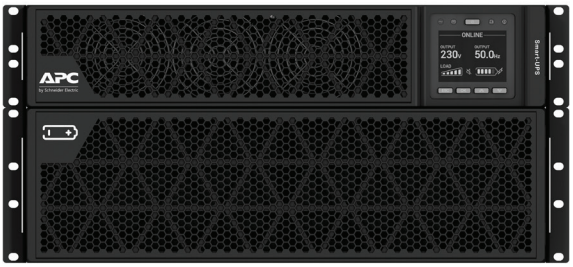
When business systems require runtime in hours, not minutes, Smart-UPS On-Line can be configured with multiple battery packs to meet aggressive runtime demands.

That's Certainty in a Connected World.

Life Is On Schneider Electric

APC Smart-UPS RT On-Line Features

Smart-UPS On-Line is capable of supporting loads from 5 – 20 kVA in a flexible, compact rack/tower convertible form. This On-Line UPS is available at a competitive price, providing refreshed features and value to customers with demanding power conditions.



High Output Power Factor
More real output power in Watts
Unity PF on 5 – 20 kVA models

High Efficiency "Green Mode"
Achieves efficiency greater than 98%, which helps save utility and cooling costs without compromising performance or reliability.

Multi-color LCD Display
Intuitive interface provides detailed and accurate information about UPS status with ability to configure locally.

Pre-installed Network Management Card with Environmental Monitoring (on 5 – 20 kVA 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.

Communication Ports
Serial, USB and SmartSlot for network accessory cards for UPS management.

Wide Input Voltage Range
5000 – 20,000 VA/100 – 285 Vac, works in unstable power conditions and minimizes transfer to battery.

1:1, 3:1, and 3:3 Input Hardwire Options
Product can be wired for 3-PH or 1-PH input (15/20 kVA models only).

Emergency Power Off (EPO)
In the event of emergency, immediately disconnects power to all connected equipment.

Three-year Warranty on Electronics
Additional year of warranty protection for electronics provides peace of mind.

User-replaceable Batteries
Pre-assembled battery replacement cartridges, designed for easy installation, provide convenient and cost-effective user-replaceable battery options.

Smart-UPS RT On-Line LCD Display and Runtime

Red: indication of UPS alarm that requires immediate attention
Amber: on battery, indication of condition that requires attention

Intuitive LCD Display

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
- Audible alarm
- IP address

Test and Diagnostics

- Initiate battery and runtime calibration tests
- Event logs and alarms

About

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

Runtime estimates

Runtime estimates at half and full load (minutes)

Number of Battery Packs	SRTG5KXLI	SRTG6KXLI	SRTG8KXLI	SRTG10KXLI	SRTG15KXLI	SRTG20KXLI
UPS at half/full load	2.5kW/5kW	3kW/6kW	4kW/8kW	5kW/10kW	7.5kW/15kW	10kW/20kW
Internal Battery	10.5/3	8/2	13/4.5	10.5/3	15/5	9/3
(1) Battery Pack	42/17	34/14	33/14	26/11	37/15	26/10
(2) Battery Pack	76/34	63/27	55/24	44/19	56/25	43/19
(3) Battery Pack	115/52	96/43	74/33	63/28	82/37	59/26
(4) Battery Pack	153/70	123/56	103/47	81/37	108/49	76/34

Runtime in the table are approximate only. All measurements taken with new, fully charged batteries, at typical environmental conditions, with no electrical input and balanced resistive load (PF = 1.0) output.

Product Accessories

Network card: AP9643

Dry contact card: AP9613

Management cards

- **AP9640:** UPS Network management card
- **AP9641:** UPS network management card with environmental monitoring
- **AP9643:** UPS Network Management Card with environmental monitoring and Modbus support
- **AP9810:** APC dry contact I/O accessory
- **AP9624:** UPS interface expander
- **AP9613:** APC dry contact I/O SmartSlot card

Battery pack: SRTG192XLBP4

Extension cable: SRTG03

Battery packs

- **SRTG192XLBP4**: APC Smart-UPS SRTG 5/6/8/10 kVA battery pack, 192V 5Ah
- **SRTG192XLBP2:** APC Smart-UPS SRTG 15/20 kVA battery pack, 192V 9Ah
- **SRTG03:** 5 m extension cable for APC Smart-UPS SRTG 15/20 kVA battery pack, 192V 9Ah

RBC: APCRBC174

Replacement Battery Cartridges (RBC)

- **APCRBC170**: APC Replacement Battery Cartridge #170 (16 pcs of 12V 5Ah batteries) for Smart-UPS SRTG 5/6 kVA
- **APCRBC172**: APC Replacement Battery Cartridge #172 (16 pcs of 12V 9Ah batteries) for Smart-UPS SRTG 15/20 kVA, and external battery pack SRTG192XLBP2 (Customer needs to order 2 numbers)
- **APCRBC174:** APC Replacement Battery Cartridge #174 (16 pcs of 12V/5Ah batteries) for Smart-UPS SRTG 8/10 kVA, and external battery pack SRTG192XLBP4 (Customer needs to order 2 numbers)

Rail kit: SRTGRK1

Rail kits

- **SRTGRK1**: 19-inch rail kit for Smart-UPS SRTG 5/6/8/10/15/20 kVA models and external battery pack SRTG192XLBP4
- **SRTGRK2**: 19-inch rail kit for external battery pack SRTG192XLBP4

Parallel kit: SRTGPK01

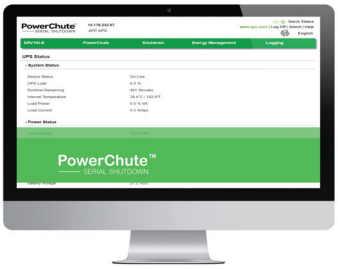
Parallel kit

- **SRTGPK01:** Parallel Kit for Smart-UPS 15/20 kVA models

Smart-UPS Management Solutions

PowerChute™ Network Shutdown

Power protection for your server and hyper-converged infrastructures



In conjunction with the APC UPS Network Management Card, PowerChute Network Shutdown is a UPS management software enabling graceful unattended system shutdown and start-up of your IT infrastructure, and providing energy management capabilities. For more information, visit /pcns.

EcoStruxure IT

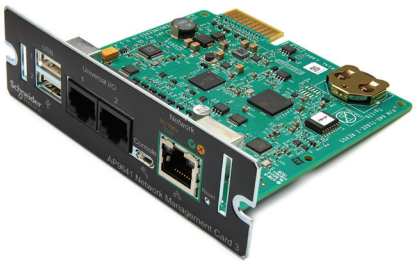
Maximize the performance of your APC Smart-UPS

Bring your IT infrastructure to a new level of resilience,security, and sustainability with EcoStruxure IT software solutions. Gain operational excellence and ensure business continuity by enabling secure monitoring, management, insights, planning, and modeling. For more information, visit /dcim.

UPS Network Management Card 3

Remote monitoring and control of an individual UPS by connecting it directly to the network

The Schneider Electric Network Management Card 3 AP9641 enables essential and secure remote monitoring and management of your critical power and cooling infrastructure, giving you mission critical visibility. For more information, visit /nmc.



Key Features

Enhanced Security

- Secure Boot with Root of Trust for enhanced security
- Independently assessed cybersecurity certification for NMC firmware v3.0 and above (IEC 62443-4-2)
- Increased password security with stricter credentials and force password policy configurations
- 3-tier user access (read only, device and administrator)
- Secure access SSH, HTTPS (TLS 1.2) secure email authentication, and secure file transfer (SCP)
- 2048-bit encryption key support (SSH/web)
- 5-tier user access (Super User, Administrator, Device User, Read-Only User, Network-Only User)

Easy-to-use Integrations

- **EcoStruxure IT integration**: Monitor and manage your equipment more efficiently with our vendor-neutral Data Center Infrastructure Management (DCIM) portfolio; the new standard for proactive insights
- **PowerChute Network Shutdown**: Graceful shutdown, unattended start-up and VM migration options for disaster avoidance and business continuity
- **Network Management System (NMS) compatible**: Make device information available to your preferred NMS by forwarding SNMP traps (events) or polling across SNMP (v1//v3) using the PowerNet MIB

Notifications and Logging

Take proactive actions and troubleshoot easily with detailed data and event logging for timely resolution, including:

- Data Logging
- Event Logging
- Syslog Support
- Email Notification

Smart-UPS RT Rackmount/Tower Models

SKU technical specifications

Product feature	SRTG5KXLI	SRTG6KXLI	SRTG8KXLI	SRTG10KXLI
Power rating	5000 VA/5000 W	6000 VA/6000 W	8000 VA/8000 W	10,000 VA/10,000 W
Input				
Nominal input voltage	230 V			
Input voltage range at full load (half load)	160 – 285 V (100 – 285 V)			
Input frequency	40 – 70 Hz auto-selecting			
Input connection	(1) Hard wire 3-wire (1P+N+G)			
Output				
Nominal output voltage	230 V (220 V, 240 V user selectable)			
Output frequency	50/60 Hz ± 4 Hz (On Mains) 50/60 Hz ± 0.1 Hz (On Battery)			
Topology	Double-conversion on-line			
Waveform type	Pure sine wave			
Efficiency:Double conversion mode (typical)	Upto > 93.5%			
Efficiency: ECO mode (typical)	Upto > 98%			
Output connections	2 IEC 320 C13, 1 IEC 320 C19, 1 Hard wire 3-wire (1P+N+G)			
Battery and Runtime*				
Battery type	Maintenance free sealed lead-acid battery with suspended electrolyte, leak proof			
Battery capacity	12 V 5 Ah (16)		12 V 5 Ah (32)	
Battery voltage	±96 V			
Typical recharge time	4 hours to recover 90% of capacity			
Runtime at half load (min)	10.5	8	13	10.5
Runtime at full load (min)	3	2	4.5	3
Replacement Battery Cartridge (quantity)	1 APCRBC170		2 APCRBC174	
External battery pack	SRTG192XLBP4			
Communications and management				
Interface ports	Serial (RJ45), USB (Type B) and SmartSlot (Pre-installed with A9641 includes ethernet port)			
Control panel	Multi-color LCD with 5 front panel buttons			
Emergency power off (EPO)	Yes (NC contacts)			
Physical				
Rack height (U)	4U		5U	
Dimensions W x H x D (mm)	440 x 175 x 620		440 x 217.5 x 680	
Net weight (kg)	55.9		101.5	
Color	RAL 7010			
Environment				
Operating temperature	0 to 40 °C			
Relative humidity	0 to 95% non-condensing			
Operating elevation	0 to 1,000 m at 100% load			
Audible noise at 1m from unit	Less than 55 dBA			58 dBA
International Protection Code	IP20			
Conformance				
Regulatory approvals	CE, UKCA, TISI, IEC 62040-1, IEC 62040-2			
Standard warranty	3 years repair or replace (excluding battery) and 2 years for battery			

All specifications are subject to change without prior notice.
* Runtime in the table are approximate only. All measurements taken with new, fully charged batteries, at typical environmental conditions, with no electrical input and balanced resistive load (PF = 1.0) output

Smart-UPS RT Rackmount/Tower Models

SKU technical specifications

Product feature	SRTG15KXLI	SRTG20KXLI
Power rating	15,000 VA/15,000 W	20,000 VA/20,000 W
Input		
Nominal input voltage	230 V (PH-N) (default) /400 V (PH-PH)	
Input voltage range at full load (half load)	160 – 285 V (100 – 285 V)	
Input frequency	40 – 70 Hz auto-selecting	
Input connection	1 Hard wire 3-wire (1P+N+G) or 1 Hard wire 5-wire (3P+N+G)	
Output		
Nominal output voltage	230 V (220 V, 240 V user selectable) or 400 V (380 V, 415 V user selectable)	
Output frequency	50/60 Hz ± 4 Hz (On Mains) 50/60 Hz ± 0.1 Hz (On Battery)	
Topology	Double-conversion on-line	
Waveform type	Pure sine wave	
Efficiency:Double conversion mode (typical)	Upto > 94%	
Efficiency: ECO mode (typical)	Upto > 98%	
Output Connections	1 IEC 320 C19, 1 Hard wire 3-wire (1P+N+G) or 1 Hard wire 5-wire (3P+N+G)	
Battery and Runtime*		
Battery type	Maintenance free sealed lead-acid battery with suspended electrolyte, leak proof	
Battery capacity	12 V 9 Ah (32)	
Battery voltage	± 192 V	
Typical recharge time	4 hours to recover 90% of capacity	
Runtime at half load (min)	15	9
Runtime at full load (min)	5	3
Replacement Battery Cartridge (quantity)	2 APCRBC172	
External battery pack	SRTG192XLBP2	
Communications and management		
Interface ports	Serial (RJ45), USB (Type B) and SmartSlot (Pre-installed with A9641 includes ethernet port)	
Control panel	Multi-color LCD with 5 front panel buttons	
Emergency power off (EPO)	Yes (NO/NC contacts)	
Physical		
Rack height (U)	7U	
Dimensions W x H x D (mm)	440 x 306 x 700	
Net weight (kg)	142.5	
Color	RAL 7010	
Environment		
Operating temperature	0 to 40 °C	
Relative humidity	0 to 95% non-condensing	
Operating elevation	0 to 1,000 m at 100% load	
Audible noise at 1m from unit	Less than 58 dBA	
International Protection Code	IP20	
Conformance		
Regulatory approvals	CE, UKCA, TISI, IEC 62040-1, IEC 62040-2	
Standard warranty	3 years repair or replace (excluding battery) and 2 years for battery	

All specifications are subject to change without prior notice.
* Runtime in the table are approximate only. All measurements taken with new, fully charged batteries, at typical environmental conditions, with no electrical input and balanced resistive load (PF = 1.0) output

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April 2025