

Smart-UPS On-Line Lithium-ion UPS 230V

Single-phase, rack/tower convertible, double conversion on-line UPS with Li-ion batteries and advanced management features



Life Is On

APC by Schneider Electric

A UPS developed for availability of your loads under 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 has a rack/tower convertible chassis with Lithium-ion batteries that allow for greater performance at higher temperatures and increased lifecycle of the UPS. When business-critical systems require runtime in hours, not minutes, Smart-UPS On-Line can be configured with multiple Li-ion battery packs to meet aggressive runtime demands.

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.

The included PowerChute™ Business Edition software provides unattended graceful shutdown of network operating systems.



Total Cost of Ownership decreases up to 53% when using Smart-UPS On-Line Li-ion UPS solutions.

APC™ Smart-UPS with Lithium-ion technology enables IT professionals to **operate more effectively** and **decrease Total Cost of Ownership (TCO)** by minimizing UPS maintenance and offering **remote UPS management** across distributed environments.

- Greater life expectancy - Increase battery lifecycle 2X
- Greater cost savings - Reduce expenses over the lifetime of the UPS compared to UPSs with lead acid batteries
  - € Eliminate cost of replacing batteries every 3-5 years
  - € Eliminate the labor cost of changing the batteries
  - € Eliminate associated costs of shipping and recycling old batteries
  - € Increased life cycle asset management
- Greater temperature tolerance - Excellent battery performance at higher ambient temperatures up to 40°C
- Greater voltage management of the battery discharge cycle
- Greater efficiency in both charge and discharge of the batteries
- Easy installation and handling with lighter external battery packs
- Management options for remote UPS management

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Smart-UPS On-Line Li-ion UPS

Industry-leading power factor and Li-ion batteries maximizing UPS density.

1000 – 3000k VA



Features

High power density
More real power in watts, 0.9 pf

High-efficiency "green mode“
Achieves 96 percent efficiency, which minimizes utility and cooling costs without compromising performance or reliability.

Graphical LCD display with multicolor backlight
Intuitive interface provides detailed and accurate information with ability to configure locally.

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

Intelligent battery management system
Li-ion battery packs are monitored at an individual cell level to manage voltage and temperatures of the set of cells. This helps Li-ion battery pack to provide higher level of safety. Enhanced battery intelligence also allows the UPS to automatically recognize if a battery pack is installed or other packs are added at a later date and adjust the runtimes for the connected load.

Lithium-ion battery pack
Provides long life battery power, ability to operate at higher temperatures without degradation of the performance of the battery. Ability to add an additional battery packs to expand runtime.

Operate without battery
Ability to immediately protect equipment when power returns after a complete discharge of the battery.

Five-year warranty on UPS and battery pack
Peace of mind with a 5 year warranty.

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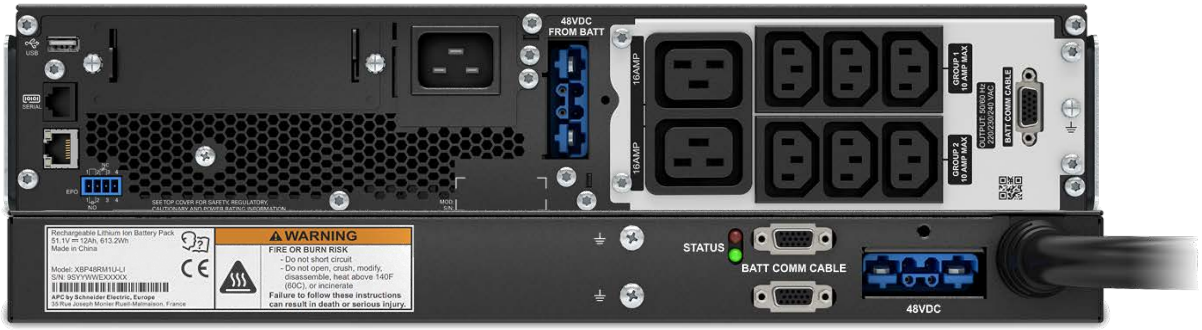
Smart-UPS On-Line Li-ion UPS

Proven performance with the world's largest installed base of single-phase, double-conversion products.

SRT1500RMXLI



SRT3000RMXLI



Features

Optional network management card with environmental monitoring
Remote monitoring and control of the UPS and the environment via Ethernet connection.

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

Flash upgradeable firmware
Allows for field updates of firmware via communication ports or Network Management Card (NMC)

Built-in automatic and manual bypass
Ensures seamless power to the load even when UPS functional failure is detected.

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

Communication protocols
Modbus serial, USB PowerSummary, HTTP, SNMP, and Telnet.

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Smart-UPS On-Line display

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



Backlit screens:
Amber: Indication of condition that requires attention

Red: Indication of UPS visible alarm that requires immediate attention

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
- Runtime
- 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

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Smart-UPS On-Line Li-ion Battery Pack

Long life, lighter weight, higher performance, high density



Features

Longer lifecycle
Double the life expectancy vs. sealed lead acid batteries

Lighter weight
1/3 lighter than sealed lead acid battery pack equivalent

High density
1U rack height, allows more extended run capability in a smaller footprint.

Battery Management System (BMS)
Control energy flow of the battery pack using dedicated Battery Monitoring System.

Overvoltage and overtemperature protection at cell level
Helps to provide higher level of safety

Overload, short circuit and thermal runaway protection
Helps to provide higher level of safety

Battery Pack with dedicated internal fuse for multi-level protection
Helps to provide higher level of safety
IEC62133
UL1973 (Section 5.7 & 5.8)
EN38.3

Cell Certifications
IEC62133
EN38.3

5-Year Warranty

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Smart-UPS management solutions

PowerChute Business Edition
For graceful UPS shutdown

Built-in manageability for your UPS unit

PowerChute™ Business Edition software provides UPS management, safe system shutdown, and innovative energy reporting capabilities. Energy usage, cost, and CO2 reporting provides a greater understanding of the energy consumed by IT equipment, enabling improved energy efficiency. Advanced analysis features help to identify the causes of potential power-related problems before they occur, ensuring the health of your protected equipment.



PowerChute Business Edition features:

- Graceful system shutdown
- Fault notifications
- Risk-assessment reporting
- Scheduled shutdowns
- Energy-usage reporting
- Centralized monitoring
- Recommended actions
- Battery status
- Outlet-aware shutdown
- Event and data logging
- Power-event summary
- Voltage analysis

PowerChute Network Shutdown
For machine prioritization

Reliable, virtualized shutdown of multiple devices

PowerChute™ Network Shutdown Edition software provides UPS management, safe system shutdown, and innovative energy reporting capabilities. Energy usage, cost, and CO2 reporting provides a greater understanding of the energy consumed by IT equipment, enabling improved energy efficiency. Advanced analysis features help to identify the causes of potential power-related problems before they occur, ensuring the health of your protected equipment.



PowerChute Network Shutdown features:

- Graceful network-based shutdown
- Sequenced server shutdown
- Integration with Vmware and Microsoft Hyper-V
- Support for virtual clusters
- Virtual machine migration / shutdown
- IPv6 support
- Virtual machine prioritization
- Command file integration
- Redundant and parallel UPS support
- Event logging
- HTTPS communications
- Scalable architecture for host of client systems

Smart-UPS Cloud-enabled Management Options

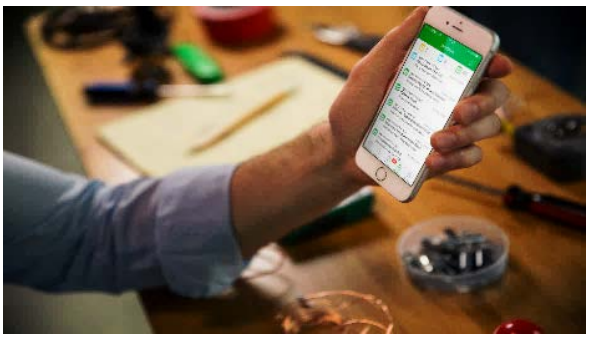
EcoStruxure IT

Connecting hybrid IT environments for advanced insights

Cloud-based vendor-neutral monitoring with EcoStruxure IT

EcoStruxure™ IT monitors and protects your critical equipment, providing 24/7 visibility through live data, smart alarming, and data-driven insights on the health of your connected assets directly to your smartphone.

When you upgrade to EcoStruxure Asset Advisor, remote troubleshooting is provided by the experts monitoring your connected assets 24x7



Remote Service
Increase your data center's uptime with intelligent 24x7 monitoring & remote troubleshooting service

Analytics
Gain insight into how well your data center runs - receive recommendations & data-driven intelligence

Mobile Insights
Stay connected to your data center with live data & alarms on your smartphone app

Learn more at: schneider-electric.com/ecostruxure

EcoStruxure IT Expert

Simplify local edge and distributed IT management by synthesizing performance and alarming data into proactive recommendations and enabling secure, wherever-you-go visibility.

- **Monitoring;** Centralized, vendor-neutral, devices monitoring with real-time data
- **Benchmarking;** Data from UPSs, cooling systems and other data center infrastructure equipment is stored in the EcoStruxure data lake, anonymized and analyzed so you can compare your devices' performance with the industry.
- **Alarm consolidation;** Alarms are consolidated into groups to see the ones that matters with a recommendation on what to do. Enable to understand the root cause of an issue faster.



EcoStruxure IT Expert is a cloud-based application for real time vendor-neutral device monitoring, trending, and root cause analysis.

UPS Network Management Cards

For remote management and control



AP9631

Connect to your network and enjoy direct control

APC UPS network management cards allow for secure connection and control of an individual APC UPS unit via web browser, command-line interface, or SNMP. The configurable notification features keep you informed of problems as they occur. For protected servers, the included PowerChute Network Shutdown software provides graceful, unattended shutdown in the event of an extended power outage, always keeping business information safe.

Network management card features:

- **Brower accessible:** View the user interface with a browser for quick access from anywhere, on a secure network
- **Remote device management:** Enable management of your UPS by connecting it directly to the network
- **Fault notification:** Get real-tim event notifications, minimizing response time to critical physical infrastructure situations – reducing meantime to repair, improving efficiency, and maximizing uptime
- **Reboot equipment remotely:** Eliminates the need to dispatch technicians to remote locations

Management card options

- **AP9630:** UPS Network Management Card
- **AP9631:** UPS Network Management card with environmental monitoring
- **AP9635:** UPS Network Management card with environmental monitoring, Out of Band Access and Modbus
- **AP9620:** Legacy communications SmartSlot card

Smart-UPS Accessories

Service bypass panels

- **SBP1500RMI:** APC service bypass PDU, 230V; 10amp with (6) IEC C13



SBP1500RMI

- **SBP3000RMI:** APC service bypass PDU, 230V; 10amp with (6) IEC C13 and (1) C19



SBP3000RMI

- **SBP3000:** APC service bypass 100-240V; 30amp; Hardwire Input/Output



SBP3000

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Product Family

SKU technical specifications



	SRTL1000RMXLI SRTL1000RMXLI-NC*	SRTL1500RMXLI SRTL1500RMXLI-NC*	SRTL2200RMXLI SRTL2200RMXLI-NC*	SRTL3000RMXLI SRTL3000RMXLI-NC*
Topology	Double Conversion On-Line			
Output				
Output Power Capacity	900 Watts / 1000 VA	1350 Watts / 1500 VA	1980 Watts / 2200 VA	2700 Watts / 3000 VA
Nominal Output Voltage	230V			
Output Voltage Distortion	Less than 1% at Linear load (Full)			
Output Frequency (sync to mains)	50/60 Hz +/- 3 Hz (auto sensing)			
Waveform Type	Pure Sine wave			
Output Connections	(8) IEC320 C13		(6) IEC320 C13, (2) IEC320 C21	
Switched outlet Groups	Yes			
Efficiency at Full Load	>91%	>92%	>90%	>89%
Input				
Nominal Input Voltage	230V			
Input Frequency	50/60 Hz +/- 3 Hz (auto sensing)			
Input Connections	IEC320 C14		IEC320 C20	
Input voltage range for main operations	160-275V			
Batteries & Runtime				
Battery Type	Lithium-Ion (NMC)			
Standard Runtime at full load	32min at 900W	19min at 1350W	13 min for 1980W	9 min for 2700W
Replacement Battery	XBP48RM1U-LI (external Li-ion battery pack)		XBP48RM1U2-LI (external Li-ion battery pack)	
Total Quantity of External Battery Packs	5		10	
Communications & Management				
Interface Port(s)	Serial (RJ45), Smart-Slot, USB			
Available SmartSlot™ Interface Quantity	1			
Control panel	Multi-function LCD status and control console			
Audible Alarm	Audible and visible alarms prioritized by severity			
Emergency Power Off (EPO)	Yes			
*Preinstalled Network Management Card	included with "NC" suffix SKU			
Physical				
UPS				
Net HxWxD	85mm x 432mm x 587mm		85mm x 432mm x 720.8mm	
Rack Height	2U		2U	
Net Weight	13.7kg		17.5kg	
Shipping Weight -	21kg		25kg	
Shipping HxWxD	445mm x 600mm x 850mm		245mm x 600mm x 870mm	
Color	Black, Aluminum Bezel			
Lithium-ion External Battery Pack				
Net HxWxD	85mm x 432mm x 510mm		43mm x 432mm x 510mm	
Rack Height	1U		1U	
Net Weight	12kg		13kg	
Shipping Weight -	16.4kg		16.4kg	
Shipping HxWxD	200mm x 600mm x 850mm		200mm x 600mm x 850mm	
Environmental				
Operating Environment	32 - 104 °F (0 - 40 °C)			
Operating Relative Humidity	0 - 95%			
Operating Elevation	0-10000 feet (0-3000 meters)			
Storage Temperature	-15 to 45 °C (-30 to 70°C without batteries)			
Storage Relative Humidity	0 - 95%			
Storage Elevation	0-50000 feet (0-15000 meters)			
Audible noise at 1 meter from surface of unit	50.0dBA			
Online Thermal Dissipation	400 BTU/hr	450 BTU/hr	450 BTU/hr	650 BTU/hr
Conformance				
Regulatory Approvals	VDE, EAC, CE, RCM, EN/IEC 62040-1			
Standard Warranty	5 years on UPS and 5 years on battery pack repair or replace			