

Smart-UPS On-Line
Lithium Ion UPS 230V

Single-phase, double conversion online UPS with Li-Ion batteries and advanced management features



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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. Lithium Ion batteries allow for greater performance at higher temperatures and greater overall 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 included PowerChute" Business Edition software provides unattended graceful shutdown of network operating systems . 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.



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.



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 4 battery packs, total of 5, to expand runtime.

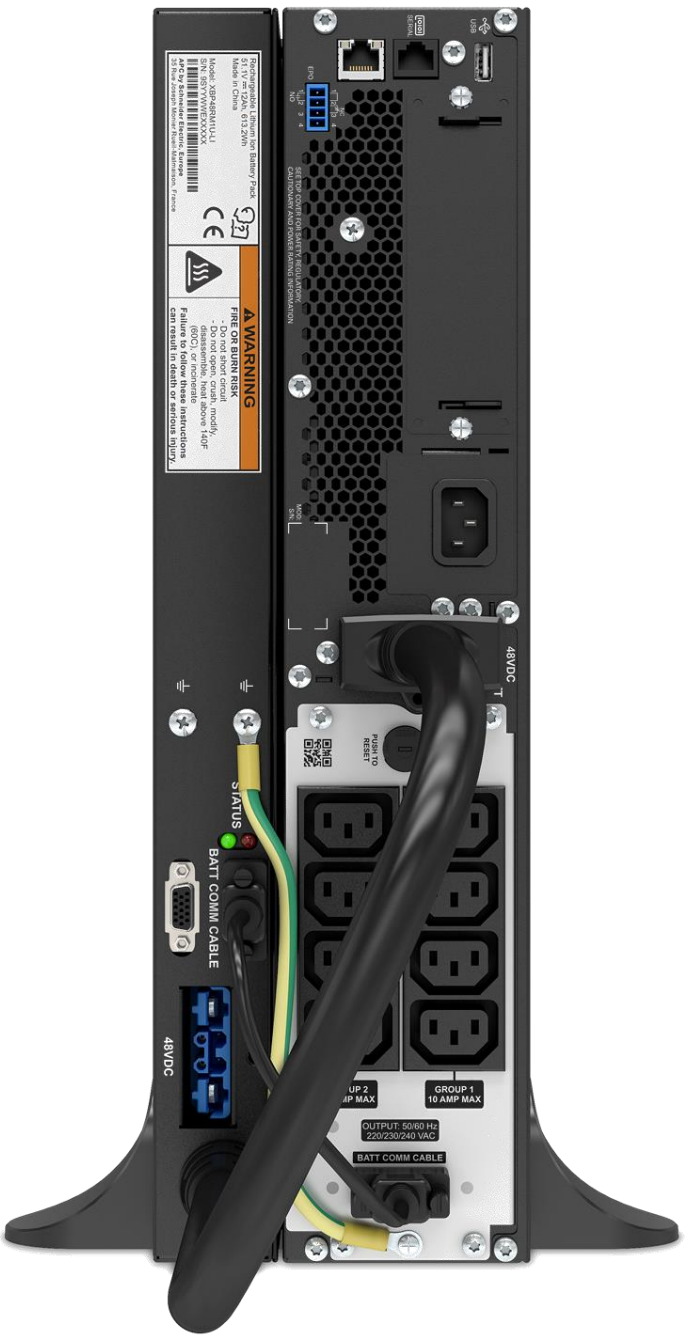
Operate without battery
Ability to immediately protect equipment when power returns after a complete discharge of the battery.

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.



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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Product Family

SKU technical specifications



	SRTL1000RMXLI SRTL1000RMXLI-NC*	SRTL1500RMXLI SRTL1500RMXLI-NC*
Topology	Double Conversion On-Line	
Output		
Output Power Capacity	900 Watts / 1000 VA	1350 Watts / 1500 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	Sine wave	
Output Connections	(8) IEC320 C13	
Switched outlet Groups	Yes	
Efficiency at Full Load	>91%	>92%
Input		
Nominal Input Voltage	230V	
Input Frequency	40 - 70Hz (±0.1Hz) auto-sensing	
Input Connections	IEC320 C14	
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
Replacement Battery	XBP48RM1U-LI	(external Li-Ion battery pack)
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 587mm
Rack Height	2U	2U
Net Weight	13.7kg	13.7kg
Shipping Weight -	21kg	21kg
Shipping HxWxD	445mm x 600mm x 850mm	445mm x 600mm x 850mm
Color	Black	Black
Lithium Ion External Battery Pack		
Net HxWxD	85mm x 432mm x 510mm	
Rack Height	1U	
Net Weight	12kg	
Shipping Weight -	16.4kg	
Shipping HxWxD	200mm x 600mm x 850mm	
Environmental		
Operating Environment	32 - 104 °F (0 - 40 °C)	
Operating Relative Humidity	0 - 95% (Non-condensing)	
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% (Non-condensing)	
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
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	

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