



# 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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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



# 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.

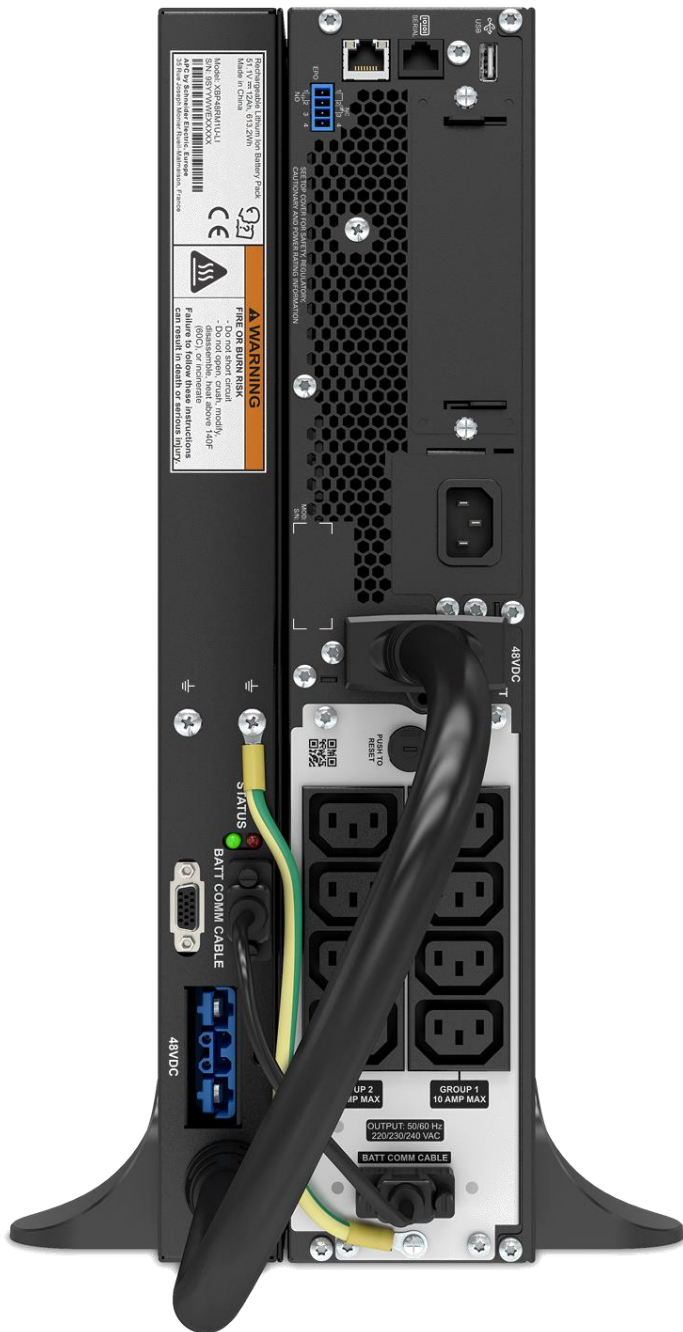
**Five-year warranty on UPS and battery pack** Peace of mind with a 5 year warranty.

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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

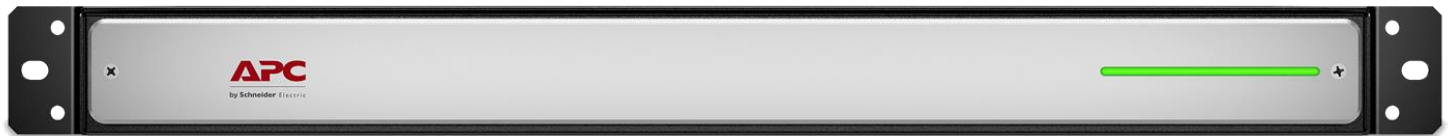
- UPS serial number, battery part number
- Battery install and suggested replacement dates

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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*
<b>Topology</b>	Double Conversion On-Line	
<b>Output</b>		
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%
<b>Input</b>		
Nominal Input Voltage	230V	
Input Frequency	40 - 70Hz (±0.1Hz) auto-sensing	
Input Connections	IEC320 C14	
Input voltage range for main operations	160-275V	
<b>Batteries &amp; Runtime</b>		
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)
<b>Communications &amp; Management</b>		
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	
<b>Physical</b>		
<b>UPS</b>		
Net HxWxD	85mm x 432mm x 587mm	85mm x 432mm x 587mm
Rack Height	2U	
Net Weight	13.7kg	13.7kg
Shipping Weight -	21kg	
Shipping HxWxD	445mm x 600mm x 850mm	445mm x 600mm x 850mm
Color	Black	
<b>Lithium Ion External Battery Pack</b>		
Net HxWxD	85mm x 432mm x 510mm	
Rack Height	1U	
Net Weight	12kg	
Shipping Weight -	16.4kg	
Shipping HxWxD	200mm x 600mm x 850mm	
<b>Environmental</b>		
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
<b>Conformance</b>		
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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