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
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
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.
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.

SRT1500RMXLI

SRT3000RMXLI
Smart-UPS On-Line display

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

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
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**
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 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 Business Edition features:
- Graceful system shutdown
- Fault notifications
- Risk-assessment reporting
- Scheduled shutdowns
- Energy-usage reporting
- Centralized monitoring

PowerChute Business Edition features:
- Recommended actions
- Battery status
- Outlet-aware shutdown
- Event and data logging
- Power-event summary
- Voltage analysis

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

PowerChute Network Shutdown features:
- 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

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.

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

Network management card features:

- **Browser 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-time event notifications, minimizing response time to critical physical infrastructure situations – reducing mean time to repair, improving efficiency, and maximizing uptime
- **Reboot equipment remotely**: Eliminates the need to dispatch technicians to remote locations

Smart-UPS Accessories

Service bypass panels

- **SBP1500RMI**: APC service bypass PDU, 230V; 10amp with (6) IEC C13
- **SBP3000RMI**: APC service bypass PDU, 230V; 10amp with (6) IEC C13 and (1) C19
- **SBP3000**: APC service bypass 100-240V; 30amp; Hardwire Input/Output

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