Smart-UPS On-Line

230 V

Unity output power factor single-phase, double-conversion online UPS with advanced management features

A versatile UPS developed for 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 is capable of supporting loads from 5 kVA – 10 kVA in a rack/tower convertible chassis. The 6 kVA, 8 kVA, and 10 kVA models feature unity output power factor enabling them to support power-hungry blade servers or heavily loaded equipment racks. When business-critical systems require runtime in hours, not minutes, Smart-UPS On-Line can be configured with multiple battery packs to meet aggressive runtime demands.

The included PowerChute™ Network Shutdown management software provides unattended graceful shutdown of network operating systems. All models include an integrated network management card for remote management. 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.
Smart-UPS On-Line

Industry-leading power factor maximizing UPS density

Rackmount and Tower SRT 5 kVA – 10 kVA

Standard Features

Best-in-class Power Density:
More real power in watts, 0.9 pf on 5 kVA, Unity on 6 kVA – 10 kVA units

High-efficiency “Green Mode”:
Achieves 98% efficiency, which saves 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

Intelligent Battery Management:
Temperature-compensated charging extends life and advanced algorithms recommend replacement date. The UPS can inform user which batteries need to be replaced and auto detect when additional battery packs are added

Built-in Energy Meter:
Measures energy use and displays UPS efficiency in various modes of operation for easy energy tracking

Operate without Battery:
Ability to immediately protect equipment when power returns

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

[SRT6KXLI shown]
Additional Features

**Embedded Network Management Card with Environmental Monitoring**
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.

**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 non-critical loads based on a variety of parameters (on battery time, runtime remaining, and overload)
- Scheduled time OFF to conserve energy

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

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

**Communication Protocols**
Modbus Serial, USB Power Summary, HTTP, SNMP, and Telnet.

**1:1, 3:1 Input Hard-wire Options**
Product can be wired for 3-PH or 1-PH input (230 V, 8 kVA, and 10 kVA models only).

**Dual Input**
Enables second input source to be connected to UPS bypass (230 V, 8 kVA, and 10 kVA models only).
Smart-UPS On-Line Display

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

Standard 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

Backlight screens:
Amber: Indication of condition that requires attention
Red: Indication of UPS alarm that requires immediate attention
Product Accessories

Management Cards
AP9630: UPS Network Management Card with PowerChute Network Shutdown
AP9631: UPS Network Management Card with PowerChute Network Shutdown & Environmental Monitoring
AP9335TH: APC® Temperature & Humidity Sensor
AP9810: APC Dry Contact I/O Accessory
AP9624: UPS Interface Expander

Battery Packs
SRT192BP: APC Smart-UPS SRT 192 V, 5 kVA, and 6 kVA Battery Pack
SRT192RMBP: APC Smart-UPS SRT 192 V, 5 kVA, and 6 kVA RM Battery Pack
SRT192BP2: APC Smart-UPS SRT 192 V, 8 kVA, and 10 kVA Battery Pack
SRT192RMBP2: APC Smart-UPS SRT 192 V, 8 kVA, and 10 kVA RM Battery Pack
SRT002: APC Smart-UPS SRT 15 ft. Extension Cable for 192 VDC External Battery Packs 5/6 kVA UPS
SRT003: APC Smart-UPS SRT 15 ft. Extension Cable for 192 VDC External Battery Packs 8/10 kVA UPS

Rail Kits
SRTRK2: APC Smart-UPS SRT 19 in. Rail Kit for Smart-UPS SRT 5/6/8/10 kVA
SRTRK3: APC 2-Post Mounting Rail Kit for Smart-UPS SRT

Backplate Kit
SRT001: APC Smart-UPS SRT 5 kVA Output HW Kit

Transformers
SUR002: APC Smart-UPS RT 5,000 VA 230 V Isolation Transformer
APTF10KW01: APC WW 10 kVA Isolation Transformer

Service Bypass Panels
SBP6KRM12U: APC Service Bypass Panel 230 V; 50 A; MBB; Hardwire input; (4) IEC-320 C19 Output
SBP10KRM14U: APC Service Bypass Panel 230 V; 100 A; MBB; Hardwire input; IEC-320 output (8) C13 (2) C19

Other
SUR013: SURT Equipment Cart

Replacement Battery Cartridge
APCRBC140

Runtime Estimates at Half and Full Load (Minutes)

<table>
<thead>
<tr>
<th>UPS Half/Full Loads</th>
<th>SRT5KXI (SRT5KRKMXLW-HW) (2,250 W/4,500 W)</th>
<th>SRT6KXI (3,000 W/6,000 W)</th>
<th>SRT8KXI (4,000 W/8,000 W)</th>
<th>SRT10KXI (5,000 W/10,000 W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal</td>
<td>11.8/4</td>
<td>8.7/2.5</td>
<td>14.5/5.24</td>
<td>11.5/3.8</td>
</tr>
<tr>
<td>(1) Battery pack</td>
<td>46.2/20.5</td>
<td>36/15.5</td>
<td>34.5/14.7</td>
<td>29/11.6</td>
</tr>
<tr>
<td>(2) Battery packs</td>
<td>83/38</td>
<td>65.2/29.4</td>
<td>55.4/24.63</td>
<td>45.3/19.8</td>
</tr>
<tr>
<td>(3) Battery packs</td>
<td>121/56.4</td>
<td>95.5/43.8</td>
<td>77/34.84</td>
<td>63.1/28.2</td>
</tr>
<tr>
<td>(4) Battery packs</td>
<td>160.4/75.1</td>
<td>126.6/58.6</td>
<td>99.1/45.33</td>
<td>81.3/36.8</td>
</tr>
</tbody>
</table>
## Smart-UPS On-Line SRT 5 kVA – 10 kVA
### Technical Specifications

<table>
<thead>
<tr>
<th>Product feature</th>
<th>SRT5KXLI</th>
<th>SRT5KRMXLI</th>
<th>SRT6KXLI</th>
<th>SRT6KRMXLI</th>
<th>SRT8KXLI</th>
<th>SRT8KRMXLI</th>
<th>SRT10KXLI</th>
<th>SRT10KRMXLI</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Output</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power rating</td>
<td>5,000 VA/4,500 W</td>
<td>6,000 VA/6,000 W</td>
<td>8,000 VA/8,000 W</td>
<td>10,000 VA/10,000 W</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nominal output voltage</td>
<td>230 V (220 V, 240 V user selectable)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output frequency</td>
<td>50/60 Hz ± 3 Hz (auto sense)</td>
<td>50/60 Hz ± 0.1 Hz (user selectable)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Topology</td>
<td>Double-conversion Online</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Online efficiency at full load (typical)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Green mode efficiency at full load (typical)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output connections</td>
<td>(6) IEC 320 C13, (4) IEC 320 C19, HW 3-Wire (L+N+G)</td>
<td>(6) IEC 320 C13, (4) IEC 320 C19, HW 3-Wire (L+N+G)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Input</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nominal input voltage</td>
<td>230 V (220 V, 240 V user selectable)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input voltage range full load (half load)</td>
<td>160 – 275 V (100 – 275 V)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input frequency</td>
<td>40 – 70 Hz auto-selecting</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input connection</td>
<td>Hardwire three-wire (1 Ph+N+G), Hardwire five-wire (3 Ph+N+G)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Batteries and runtime</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battery type</td>
<td>Maintenance-free sealed lead-acid battery with suspended electrolyte, leak proof</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Typical backup time at 1/2 load (min.)</td>
<td>11.8 min.</td>
<td>8.7 min.</td>
<td>14.8 min.</td>
<td>11.5 min.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Typical backup time at full load (min.)</td>
<td>4 min.</td>
<td>2.5 min.</td>
<td>5.3 min.</td>
<td>3.8 min.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Replacement battery (quantity)</td>
<td>APCRBC140 (1)</td>
<td>APCRBC140 (2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>External battery pack (tower/rack mount)</td>
<td>SRT192BP/SRT192RMBP</td>
<td>SRT192BP2/SRT192RMBP2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Communication and management</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interface ports</td>
<td>RJ-45 with Status LEDs (10/100 Base-T), Serial (RJ45), USB (Type B) and SmartSlot</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control panel</td>
<td>High Resolution Graphical LCD display</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emergency power off (EPO)</td>
<td>Yes (NO/NC connections)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Embedded Network Management with Environmental Monitoring</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Physical</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rack height</td>
<td>3 U</td>
<td>4 U</td>
<td>6 U</td>
<td>6 U</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum height (RM)</td>
<td>130 mm</td>
<td>174 mm</td>
<td>263 mm</td>
<td>263 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum width (RM)</td>
<td>432 mm</td>
<td>432 mm</td>
<td>432 mm</td>
<td>432 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum depth (RM)</td>
<td>719 mm</td>
<td>719 mm</td>
<td>715 mm</td>
<td>715 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net weight</td>
<td>54.5 kg</td>
<td>60 kg</td>
<td>112 kg</td>
<td>112 kg</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Conformance</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Warranty</td>
<td>Three years for electronics/two years for battery</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>