A versatile UPS developed for unstable power conditions worldwide.

Smart-UPS™ On-Line provides high-density, true double-conversion online power protection for servers, voice/data networks, medical labs, and light industrial applications. Capable of supporting loads from 1 to 20 kVA in a rack/tower convertible form, the Smart-UPS On-Line is available from 2 U to 12 U. The 15 kVA and 20 kVA models enable support of 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 matching battery packs to comply with aggressive runtime demands. The included PowerChute™ management software provides unattended graceful shutdown of network operating systems. All models 5 kVA and above include an integrated network management card for remote management (optional on models below 5 kVA). 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.
Features and benefits

1. Rack/tower convertible
   Ensures integration in various environments

2. Hot-swappable/user-replaceable batteries
   Ensures continuous operation of the load even when the batteries are being replaced

3. Double-conversion online
   Provides tight voltage and frequency regulation and zero transfer time for reactive loads (machinery, lab equipment, etc.)

4. Advanced 16-segment LED display
   Quickly understand unit and power status with visual indicators (LCD on 15 – 20 kVA models)

5. Frequency and voltage regulation
   Gives higher application availability by correcting poor frequency and voltage conditions without using the battery

1. UPS Network Management Card with Environmental Monitoring
   Provides remote user interface, managed via web browser, SNMP, and Telnet. Includes graceful unattended shutdown. The UPS Network Management Card is pre-installed on UPS models 5 kVA through 20 kVA

2. Serial connectivity
   Enables quick and easy configuration of the UPS

3. Scalable runtime
   Allows additional runtime to be quickly added as needed

4. Built-in automatic and manual bypass
   Ensures seamless power to the load even in the event of catastrophic UPS failure

5. Field-replaceable power distribution panels
   Enables quick in-field modification of output receptacles to fit changing needs
Product accessories

Management cards
AP9610: Relay I/O SmartSlot™ Card
(not compatible with SURTDUPS models)
AP9622: Modbus®/Jbus Interface Card
(not compatible with SURTDUPS models)
AP9630: UPS Network Management Card
AP9631: UPS Network Management Card with Environmental Monitoring
AP9810: APC™ by Schneider Electric™ Dry Contact I/O Accessory (not compatible with SURTDUPS models)
AP9620: Legacy Communications SmartSlot Card (compatible with SURTDUPS models only)

Rail kits
SURTRK: APC Smart-UPS RT 482 mm Rail Kit 1 kVA and 2 kVA
SURTRK2: APC Smart-UPS RT 482 mm Rail Kit for Smart-UPS RT 3/5/6/8/10 kVA
SURTRK4: APC Smart-UPS RT 482 mm Rail Kit for Smart-UPS RT 15/20 kVA

Battery packs
SURT48XLBP: APC Smart-UPS RT 48 V Battery Pack
SURT48RMXLBP: APC Smart-UPS RT 48 V RM Battery Pack
SURT192XLBP: APC Smart-UPS RT 192 V Battery Pack
SURT192RMXLBP: APC Smart-UPS RT 192 V RM Battery Pack
SURT192RMXLBP2: APC Smart-UPS RT 192 V RM Battery Pack 2 Rows

Transformers
APTF10KW01: APC WW 10 kVA Isolation Transformer
APTF20KW01: APC WW 20 kVA Isolation Transformer
SURT001: APC Smart-UPS RT 3000 VA 230 V Isolation Transformer
SURT002: APC Smart-UPS RT 5000 VA 230 V Isolation Transformer

Backplate kits
SURT007: APC Smart-UPS RT 3/5/6 kVA Input/Output Hardwire Kit
SYPD10: Symmetra™ RM 230 V Backplate Kit with (2) IEC 320 C19 and (1) IEC 60309

Service bypass panels
SBP3000: APC Service Bypass Panel 100 – 240 V; 30 A; BBM; Hardwire Input/Output
SBP6KRM12U: APC Service Bypass Panel 230 V; 50 A; MBB; Hardwire Input; (4) IEC 320 C19 Output
SBP10KRM4U: APC Service Bypass Panel 230 V; 100 A; MBB; Hardwire Input; IEC 320 Output (8) C13 (2) C19
SBP20KP: APC Service Bypass Panel 200/208/230/240 V 125 A HW Input/Output
SBP20KRM4U: APC Service Bypass Panel 230 V 125 A HW Input IEC 320 Output (8) C19

A comprehensive portfolio of services

Schneider Electric Critical Power & Cooling Services (CPCS) provides the expertise, services, and support you need for your building, industry, power, or data center infrastructure. Our world-class life cycle services offer a smart way to install and maintain your critical applications, ensuring your systems are always running at peak performance.
## Technical specifications

### Output

<table>
<thead>
<tr>
<th>UPS VA</th>
<th>1000</th>
<th>2000</th>
<th>3000</th>
<th>5000</th>
<th>6000</th>
<th>8000</th>
<th>10000</th>
<th>15000</th>
<th>20000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topology</td>
<td>Double-conversion online</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nominal output voltage</td>
<td>Configurable for 220 : 230 or 240 nominal output voltage</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Efficiency at full load</td>
<td>Up to 92%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output frequency (sync to mains)</td>
<td>50/60 Hz +/- 3 Hz user adjustable</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output power capacity</td>
<td>700 W</td>
<td>1400 W</td>
<td>2100 W</td>
<td>3500 W</td>
<td>4200 W</td>
<td>6400 W</td>
<td>8000 W</td>
<td>12 kW</td>
<td>16 kW</td>
</tr>
<tr>
<td>Output connections</td>
<td>(6) IEC 320 C13; (8) IEC 320 C19</td>
<td>(1) Hardwire 3-wire (H + N + G); (4) IEC 320 C13; (4) IEC 320 C19</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

### Input

| Nominal input voltage | 230 V | 230 V or 400 V |
| Input frequency | 45 – 65 Hz (auto sensing) |
| Input connections | British BS1363A; IEC 320 C20; Schuko CEE 7/EU1-16P | Hardwire 3-wire (1PH + N + G); Hardwire 3-wire (1PH + N + G) |

### Bypass

- Automatic and Manual (Built-in)

### Battery

- Battery type: Maintenance-free sealed lead-acid battery with suspended electrolyte: leak proof
- Replacement battery: RBC31, APCRBC140

### Communications and Management

| Interface port(s) | DB-9 RS-232, SmartSlot, USB | RJ-45 10/100 Base-T, RJ-45 Serial, SmartSlot |
| Pre-installed SmartSlot card | | AP9631 |

### Emergency power off (EPO)

- No Yes

### Control panel

- LEDs LCD Display

### Physical

| Rack height | 2 U | 3 U | 6 U | 12 U |
| Maximum height | 432 mm | 533 mm | | |
| Maximum width | 85 mm | 130 mm | 263 mm | 432 mm |
| Maximum depth | 483 mm | 660 mm | 736 mm | 773 mm |
| Net weight | 25.00 kg | 54.55 kg | 110.91 kg | 247.70 kg |

### Runtime estimates at half and full load (minutes)

<table>
<thead>
<tr>
<th>UPS VA</th>
<th>1000</th>
<th>2000</th>
<th>3000</th>
<th>5000</th>
<th>6000</th>
<th>8000</th>
<th>10000</th>
<th>15000</th>
<th>20000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal</td>
<td>32/14</td>
<td>17/6</td>
<td>34/14</td>
<td>18/6</td>
<td>16/5</td>
<td>20/7</td>
<td>15/5</td>
<td>22/8</td>
<td>15/5</td>
</tr>
<tr>
<td>(1) Battery pack</td>
<td>122/69</td>
<td>67/30</td>
<td>122/57</td>
<td>70/31</td>
<td>49/21</td>
<td>48/21</td>
<td>37/15</td>
<td>53/23</td>
<td>38/15</td>
</tr>
<tr>
<td>(2) Battery pack</td>
<td>257/129</td>
<td>121/56</td>
<td>217/102</td>
<td>125/58</td>
<td>88/40</td>
<td>76/35</td>
<td>60/26</td>
<td>84/38</td>
<td>60/27</td>
</tr>
<tr>
<td>(3) Battery pack</td>
<td>360/180</td>
<td>177/83</td>
<td>315/150</td>
<td>183/85</td>
<td>130/60</td>
<td>106/49</td>
<td>83/38</td>
<td>117/54</td>
<td>85/38</td>
</tr>
<tr>
<td>(4) Battery pack</td>
<td>480/240</td>
<td>234/110</td>
<td>416/199</td>
<td>242/113</td>
<td>172/80</td>
<td>136/63</td>
<td>107/49</td>
<td>150/69</td>
<td>104/50</td>
</tr>
</tbody>
</table>

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