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

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**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 SURTD UPS models)
- AP9622: Modbus®/Jbus Interface Card (not compatible with SURTD UPS 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 SURTD UPS models)
- AP9620: Legacy Communications SmartSlot Card (compatible with SURTD UPS models only)

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

Other
- SURT013: SURT Equipment Cart

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
- SURT48XLB: APC Smart-UPS RT 48 V Battery Pack
- SURT48RMXLB: APC Smart-UPS RT 48 V RM Battery Pack
- SURT192XLB: APC Smart-UPS RT 192 V Battery Pack
- SURT192RMXLB: APC Smart-UPS RT 192 V RM Battery Pack
- SURT192RMXLB2: APC Smart-UPS RT 192 V RM Battery Pack 2 Rows

Service bypass panels
- SBP3000: APC Service Bypass Panel 100 – 240 V; 30 A; BBM; Hardwire Input/Output
- SBP6KRMi2U: APC Service Bypass Panel 230 V; 50 A; MBB; Hardwire Input; (4) IEC 320 C19 Output
- SBP10KRMi4U: APC Service Bypass Panel 230 V; 100 A; MBB; Hardwire Input; IEC 320 Output (8) C13 (2) C19
- SBP20KRMi4U: 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</td>
<td>(8) IEC 320 C13, (2) IEC 320 C19</td>
<td>(1) Hardwire 3-wire (H + N + G); (4) IEC 320 C13, (6) IEC 320 C19</td>
<td>(1) Hardwire 3-wire (H + N + G); (1) Hardwire 5-wire (3PH + N + G); (8) IEC 320 C19</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

### Input

<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>Nominal input voltage</td>
<td>230 V</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input frequency</td>
<td>45 – 65 Hz (auto sensing)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input connections</td>
<td>British BS1363A; IEC 320 C20; Schuko CEE 7/EU1-16P</td>
<td>Hardwire 3-wire (1PH + N + G)</td>
<td>Hardwire 3-wire (1PH + N + G); Hardwire 5-wire (3PH + N + G)</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

### Bypass

- Automatic and Manual (Built-in)

### Battery

- Maintenance-free sealed lead-acid battery with suspended electrolyte: leak proof
- Replacement battery: RBC31, RBC44

### Communications and Management

- Interface port(s): DB-9 RS-232, SmartSlot, USB
- Pre-installed SmartSlot card: AP9631
- Emergency power off (EPO): No, Yes
- Control panel: LEDs, LCD Display

### Physical

<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>Rack height</td>
<td>2 U</td>
<td>3 U</td>
<td>6 U</td>
<td>12 U</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Maximum height</td>
<td>432 mm</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Maximum width</td>
<td>130 mm</td>
<td></td>
<td></td>
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<tr>
<td>Maximum depth</td>
<td>660 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net weight</td>
<td>25.00 kg</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

## 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>135/63</td>
<td>107/49</td>
<td>150/69</td>
<td>104/50</td>
</tr>
</tbody>
</table>