Tripp Lite UPS Systems

Reliable, efficient, manageable power and battery backup
It would be nice if utility power was always reliable, but it isn’t. Between the aging grid, growing demand, severe weather and hazards lurking inside your own walls, your equipment is under constant attack. You can prevent equipment damage, data loss and downtime by installing a UPS system to regulate incoming AC power and provide battery backup during outages.

Whether you’re supporting racks of mission-critical servers in your data center or a single desktop computer in your home office, Tripp Lite can provide the UPS you need to get the job done. And with Tripp Lite, you’ll get more for your money.

But with so many models to choose from, how can you determine which UPS is best for your application? Consider the five questions on the next page to help you choose.
Five Basic Questions to Consider When Choosing a UPS System

1. **Do you need a Network/Server UPS or a Desktop UPS?**
   - Network/Server UPS Systems protect equipment in high-availability environments like data centers. Desktop UPS Systems protect computers, peripherals and other electronics in your home or office.
   - **You need a Network/Server UPS if you answer yes to any of these questions:**
     - Will the UPS support mission-critical equipment?
     - Will the UPS support a load higher than 750 watts?
     - Will the UPS be installed in a rack or rack enclosure?
     - Does your equipment require pure sine wave power?
     - Do you want the UPS to have expandable runtime?
     - Will the UPS support high-voltage (200-250V) loads?

2. **How much UPS capacity do you need?**
   - To estimate capacity requirements, add up the wattage of all the equipment you plan to connect. (Refer to the equipment manufacturer’s documentation to find the wattage. If output is listed in amps, multiply by the AC voltage to estimate wattage. If you can’t find documentation, refer to the equipment nameplate.) Check the UPS system specifications to see which models will handle your requirements.
   - **Note:** This method provides a rough estimate, but we recommend that you use our UPS product selector at [www.tripplite.com/upsguide](http://www.tripplite.com/upsguide) or contact your Tripp Lite representative for a more precise estimate.

3. **Which input and output power connections do you need?**
   - Check the UPS specifications to make sure the UPS can connect to a compatible AC circuit/outlet in the installation location. You also need to make sure the UPS system’s outlets match the plugs and voltage requirements of your equipment. You can provide additional outlets, placement flexibility and management capabilities by connecting one or more Tripp Lite PDUs to the UPS output.

4. **How much battery backup runtime do you need?**
   - With an 80% load, included UPS batteries typically provide five to ten minutes of runtime. That’s long enough to outlast most outages. If you need additional runtime, choose a UPS system that supports connecting external battery packs. Go to [www.tripplite.com/runtime](http://www.tripplite.com/runtime) for interactive battery backup runtime charts for every UPS model. You can see how battery pack options affect runtime at any wattage level, download traditional runtime chart PDFs and determine the wattage requirements of your equipment.

5. **What other UPS features do you need?**
   - Tripp Lite manufactures more than 200 different UPS systems suitable for a wide range of applications and budgets. See pp. 4-5 for a comparison of the key features available in each UPS family.
Desktop UPS Systems

### Extra Protection / Higher Capacity

<table>
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<tr>
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<td>300VA to 1400VA</td>
<td>300VA to 1500VA</td>
<td>500VA to 1500VA</td>
</tr>
<tr>
<td>Surge/Noise Protection</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Data Line Protection</td>
<td>Select Models</td>
<td>Select Models</td>
<td>Select Models</td>
</tr>
<tr>
<td>Voltage Regulation</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Expandable Runtime</td>
<td>No</td>
<td>Two Models</td>
<td>Select Models</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Convenience</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Compact Form Factors</td>
<td>Low-Profile or Tower</td>
<td>Low-Profile or Tower</td>
<td>Tower or Rack/Tower</td>
</tr>
<tr>
<td>Simple Operation</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
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<td><strong>Green Backup Power</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>High Efficiency</td>
<td>Most Models</td>
<td>Most Models</td>
<td>Most Models</td>
</tr>
<tr>
<td>Green Outlet™ Technology</td>
<td>ECO-UPS Models</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>Communications and Management</strong></td>
<td></td>
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</tr>
<tr>
<td>Diagnostic LEDs</td>
<td>Most Models</td>
<td>Most Models</td>
<td>Select Models</td>
</tr>
<tr>
<td>LCD Status Screen</td>
<td>Select Models</td>
<td>Digital (LCD) Models</td>
<td>Select Models</td>
</tr>
<tr>
<td>Serial and/or USB Ports</td>
<td>Most Models</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Switchable Outlet Banks</td>
<td>No</td>
<td>No</td>
<td>Select Models</td>
</tr>
<tr>
<td>Manageable via Host Computer</td>
<td>Most Models</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Centrally Manageable</td>
<td>Most Models</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

* Although small Network/Server UPS Systems can be ideal for important desktop applications (such as protecting critical workstations), some Network/Server UPS Systems have high-speed cooling fans that may not be suitable for low-noise environments. Contact your Tripp Lite representative for assistance if you are considering this option.
# Network/Server UPS Systems

## Higher Capacity Extra Protection / Higher Capacity

<table>
<thead>
<tr>
<th>Features</th>
<th>Line-Interactive Protection</th>
<th>On-Line Protection</th>
<th>Hot-Swappable On-Line Protection</th>
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</thead>
<tbody>
<tr>
<td>SmartPro Tower UPS (pp. 12-13)</td>
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<td>SmartOnline Rack/Tower UPS (pp. 14-19)</td>
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</table>

### Power Protection

<table>
<thead>
<tr>
<th>Available Load Capacities</th>
<th>750VA to 3kVA</th>
<th>500VA to 5kVA</th>
<th>750VA to 3kVA</th>
<th>750VA to 5kVA</th>
<th>5kVA to 20kVA</th>
<th>20kVA to 80kVA</th>
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</thead>
<tbody>
<tr>
<td>Surge/Noise Protection</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Expandable Runtime</td>
<td>Select Models</td>
<td>Select Models</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Voltage Regulation</td>
<td>Yes</td>
<td>Yes</td>
<td>Advanced (±2%)</td>
<td>Advanced (±2% or ±3%)</td>
<td>Advanced (±3%)</td>
<td>Advanced (±3%)</td>
</tr>
<tr>
<td>Pure Sine Wave Output</td>
<td>Select Models</td>
<td>All Models &gt;500VA</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>True On-Line Operation</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
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<td>Yes</td>
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</table>

### Green Backup Power

<table>
<thead>
<tr>
<th>High Efficiency</th>
<th>Most Models</th>
<th>Yes</th>
<th>Yes</th>
<th>Yes</th>
<th>Yes</th>
<th>Yes</th>
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<tbody>
<tr>
<td>High Power Factor</td>
<td>One Model</td>
<td>Most Models</td>
<td>Most Models</td>
<td>Most Models</td>
<td>Most Models</td>
<td>Yes</td>
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<tr>
<td>Economy Mode Operation</td>
<td>N/A</td>
<td>N/A</td>
<td>Yes</td>
<td>Yes</td>
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### High Availability

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<thead>
<tr>
<th>Input Voltage Range</th>
<th>Wide</th>
<th>Wide</th>
<th>Very Wide</th>
<th>Very Wide</th>
<th>Very Wide</th>
<th>Very Wide</th>
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<tbody>
<tr>
<td>Industrial Overload Capacity</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<tr>
<td>Automatic Bypass</td>
<td>No</td>
<td>One Model</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Hot-Swappable Battery</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Hot-Swappable Power Module(s)</td>
<td>No</td>
<td>One Model</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Built-in N+1 Redundancy</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>N+1 Models</td>
<td>Modular Models</td>
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</table>

### Communications and Management

<table>
<thead>
<tr>
<th>Control Panel</th>
<th>LEDs</th>
<th>LEDs or LCD</th>
<th>LEDs or LCD</th>
<th>LEDs and/or LCD</th>
<th>LEDs and LCD</th>
<th>LEDs and LCD</th>
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</thead>
<tbody>
<tr>
<td>Serial and/or USB Ports</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Switchable Outlet Banks</td>
<td>Select Models</td>
<td>Most Models</td>
<td>Yes</td>
<td>Select Models</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Manageable via Host Computer</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Manageable via Network Card</td>
<td>Select Models</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Centrally Manageable</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Conserve Space—Slim as 1U!

SmartPro Rackmount/Tower UPS Systems provide more battery backup (up to 5000VA) and premium features in compact cases (as slim as 1U) which make the best use of available rack space.

Protect Every Application

SmartPro Rackmount/Tower UPS Systems are available in a wide variety of capacities to protect every size computer application from downtime, damage and data loss due to power problems. SmartPro Rackmount/Tower UPS Systems provide protection against all types of power problems, including brownouts, blackouts, surges and line noise. Line-interactive operation—also known as automatic voltage regulation (AVR)—automatically regulates incoming voltage to keep equipment working through low voltage (brownouts) and high voltage conditions* indefinitely, without draining battery power. SmartPro Rackmount/Tower UPS Systems provide reliable battery power to keep computers up and running through short blackouts and allow enough time to save data and shut down during longer ones. In addition, all AC outlets are backed by internal surge suppression and line noise filtering components to protect equipment from damage due to lightning and surges or malfunctions and poor performance due to line noise.

* SMART500RT1U models supply battery power during high voltage conditions.
Extend Runtime

Select models accept external battery packs to provide extended runtime. Without enough runtime, businesses stand to lose up to $70,000 per hour according to a survey on the cost of lost productivity for an hour of network downtime. *
* IDC.

Extending runtime is as simple as plugging in additional external battery packs.

Manage Multiple Servers

Multiple built-in communication ports provide the ability to simultaneously manage multiple servers without the need for accessories. Using PowerAlert software, models with multiple communication ports will simultaneously provide intelligent communications, shutdown commands and reporting on multiple servers—even if they are running different operating systems. * Intelligent communications allow you to check UPS status (including battery charge level) and AC power status as well as reboot switched outlet banks.
* Additional PowerAlert features: pages 30 and 31.

Protect Telecom Applications

Protect large telecom equipment and servers with a specially designed SmartPro Rackmount/Tower UPS System—SMART5000TEL3U. The SMART5000TEL3U allows you to power and protect multiple pieces of high-voltage equipment from a single 208V circuit. In addition, the SMART5000TEL3U features two 120V outlets to support low-voltage monitors and peripherals used with high-voltage equipment.

Control Individual Outlets

Prioritize the uptime of mission-critical loads during a power failure with switched outlet banks featured on select models. Switched outlet banks can be controlled independently through PowerAlert. Use PowerAlert to reboot a locked-up computer by cycling the power on and off to select outlets on the UPS system. You can also program PowerAlert to shut down less important systems during an extended blackout, preserving battery runtime for critical equipment.

* 1U models include hardware to adapt to tower mounting. Optional base stands (model: 2-9USTAND) are available to adapt any combination of models, from 2U to 9U wide, to tower mounting.
A **Extended Runtime Capability**
Select models feature connectors that accept optional external battery packs for additional runtime. External batteries can be “hot-swapped”. Go to www.tripplite.com/runtime for interactive runtime charts for every UPS model.

B **Switched Outlet Banks**
Prioritize the uptime of mission-critical loads during a power failure. Select models feature switched outlet banks that you can control independently through PowerAlert software. Use PowerAlert to reboot a locked-up computer or to shut down less important systems during extended blackouts, preserving battery runtime for critical equipment.

C **Variety of Output Options**
15-, 20- and 30-amp outlets on select models ensure maximum connection flexibility. Multiple Server Support
Up to four built-in communication ports on select models simultaneously provide shutdown commands and reporting on multiple servers.

D **Accessory Card Slot**
Accepts optional internal SNMPWEBCARD. SNMPWEBCARD provides network interface for monitoring and control via SNMP, Web or telnet, enabling remote reboots, shutdowns and more. Select models ( ) include a preinstalled SNMPWEBCARD.

E **Short Circuit Protection**
Breakers safeguard your equipment and the UPS.

F **Emergency Power Off (EPO)**
A jack included with all models allows remote emergency shutdown.

G **Complete Performance Conditions Displayed**
Front panel LCD or LEDs alert you to a variety of performance conditions, including AC line automatic voltage regulation, UPS load and replace battery.

H **Bypass Operation (not shown)**
SMART3000RM02U includes a bypass feature that allows the power module to be hot-swapped without powering down connected equipment.

I **Front Panel Battery Replacement (not shown)**
Most models feature a removable panel which allows for internal battery replacement.* Internal batteries can be “hot-swapped”.

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### Specifications

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<th>Nominal Capacity</th>
<th>Typical Runtime (Watt-Hour)</th>
<th>Extended Runtime</th>
<th>Nominal Input Voltage (Vac/Hz)</th>
<th>AC Outlet</th>
<th>Switched Outlet Banks</th>
<th>USB Ports</th>
<th>Serial Ports</th>
<th>Input Plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMART5000RMX1U</td>
<td>5000VA/3000W</td>
<td>14.6/3.2 min.</td>
<td>10/3.5 min.</td>
<td>120V</td>
<td>7 (5-15P)</td>
<td>2x1 1 1 5-15P</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SMART7500RMX1U</td>
<td>7500VA/4500W</td>
<td>18.3/5.3 min.</td>
<td>15/3.5 min.</td>
<td>120V</td>
<td>8 (5-15P)</td>
<td>2x1 1 1 5-15P</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SMART10000RX1U</td>
<td>10000VA/6000W</td>
<td>20.7/5.3 min.</td>
<td>20/3.5 min.</td>
<td>120V</td>
<td>6 (5-15P)</td>
<td>2x1 1 1 5-15P</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SMART15000RX1U</td>
<td>15000VA/9000W</td>
<td>25.2/6.3 min.</td>
<td>25/4.5 min.</td>
<td>120V</td>
<td>8 (5-15P)</td>
<td>2x1 1 1 5-15P</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SMART20000RX1U</td>
<td>20000VA/12000W</td>
<td>30.0/7.5 min.</td>
<td>30/4.5 min.</td>
<td>120V</td>
<td>10 (5-15P)</td>
<td>2x1 1 1 5-15P</td>
<td></td>
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</tr>
</tbody>
</table>

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Visit www.tripplite.com/smartpro for the latest specifications, including weights and dimensions.
Support Network/Telecom Wiring Closets

Shallow mounting depth matches popular network/telecom equipment and allows UPS systems to fit in confined spaces. High load capacity and internal battery capacity allow you to attach more equipment safely without installing additional circuits and UPS systems. Shallow-depth SMART3000CRMXL, SMART2200CRMXL and the matching BP48V48RT4U external battery pack include all hardware required for secure mounting in 2-post network/telecom racks. Combine with Tripp Lite’s SR2POST or SR2POST2S 2-post racks to create ideal solutions for organizing, protecting and powering important equipment in cramped network/telecom wiring closets.

Extend Runtime

All models accept external battery packs to provide extended runtime. Without enough runtime, businesses stand to lose up to $70,000 per hour according to a survey on the cost of lost productivity for an hour of network downtime.*

* IDC.

Lower Operating Costs

AC-to-AC efficiency up to 97% reduces power consumption and lowers operating costs. Each two watts saved by increased UPS efficiency saves an additional watt in cooling requirements. Higher efficiency also lowers your facility’s environmental impact.

Protect Sensitive Equipment

Line-interactive operation—also known as automatic voltage regulation (AVR)—automatically adjusts incoming voltage to safe levels without draining battery power. Reliable battery backup keeps equipment operating through power failures. Pure sine wave output guarantees maximum stability and compatibility with sensitive equipment. All outlets include network-grade surge suppression and noise filtering.

Go to www.tripplite.com/runtime for interactive battery backup runtime charts for every UPS model.
Feature Focus

Accessories

Heavy-duty 2-post rack mounting kit for 2U to 4U UPS modules and battery packs. Order one kit per module or battery pack.

Adapts UPS modules and battery packs for tower installation. One kit adjusts from 2U to 9U. Two kits adjust from 10U to 14U.

Adds programmable contact-closure interface to compatible UPS systems. Includes six outputs and one input.

Connects to SNMPWEBCARD for remote temperature and humidity monitoring. Also monitors contact-closure devices.

Adds Ethernet (RJ45) network interface to UPS for remote monitoring and control via SNMP, Web, SSH or telnet.

Visit www.tripplite.com/smartpro for the latest specifications, including weights and dimensions.

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Capacity (Half/Full Load)</th>
<th>Typical Runtime (F.B)</th>
<th>Nominal Input/Output Voltage (Frequency 60Hz)</th>
<th>AC Outlet Quantity (Type)</th>
<th>Switched Outlet Banks</th>
<th>Comm. Ports</th>
<th>Plug Type</th>
<th>Primary Mounting Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMART1500CRMXL</td>
<td>1500VA/1440W</td>
<td>14/6+ min.</td>
<td>120V</td>
<td>8 (5-15R)</td>
<td>3x1</td>
<td>RS-232, USB, EPO</td>
<td>5-15P</td>
<td>4-Post Rack (2U)</td>
</tr>
<tr>
<td>SMART2200CRMXL</td>
<td>2200VA/1900W</td>
<td>28/11+ min.</td>
<td>120V</td>
<td>4 (5-15R), 4 (5-15/20R)</td>
<td>3x1</td>
<td>RS-232, USB, EPO</td>
<td>5-20P</td>
<td>2-Post Rack (4U)</td>
</tr>
<tr>
<td>SMART3000CRMXL</td>
<td>3000VA/2880W (3600VA/3600W via optional hardwire)</td>
<td>19/7.5+ min.</td>
<td>120V</td>
<td>8 (5-15/20R), 1 (L5-30R)</td>
<td>3x1</td>
<td>RS-232, USB, EPO</td>
<td>L5-30P</td>
<td>(optional hardware) 2-Post Rack (4U)</td>
</tr>
</tbody>
</table>

External Battery Packs (Compatible with all CRM models.)

BP48V48RT4U Expandable 4U battery pack optimized for SMART3000CRMXL and SMART2200CRMXL. Includes 2-post mounting hardware.
BP48V24-2U Non-expandable 2U battery pack optimized for SMART1500CRMXL. Includes 4-post mounting hardware.
BP48V60RT-3U Expandable 3U battery pack. Includes 4-post mounting hardware.

Accessories

SNMPWEBCARD Adds Ethernet (RJ45) network interface to UPS for remote monitoring and control via SNMP, Web, SSH or telnet.
ENVIROSENSE Connects to SNMPWEBCARD for remote temperature and humidity monitoring. Also monitors contact-closure devices.
RELAYIOCARD Adds programmable contact-closure interface to compatible UPS systems. Includes six outputs and one input.
2POSTRMKITHD Heavy-duty 2-post rack mounting kit for 2U to 4U UPS modules and battery packs. Order one kit per module or battery pack.
4POSTRALKIT Mounting kit for 4-post rackmount installation. Order one kit per module or battery pack.

Model with expandable runtime.

Certifications vary by model. All models include an accessory card slot and 10 ft. input cord. (A) Included cord and plug can be removed to permit hardware input for 3600VA/3600W output capacity. (B) Runtime varies with load, battery condition and other factors. “+” Runtimes are expandable using optional external battery packs. (C) Typical runtime is 13/0 min. for optional hardware input.

Visit www.tripplite.com/smartpro for the latest specifications, including weights and dimensions.
Protect Every Application

SmartPro Tower UPS Systems are available in a wide variety of capacities to protect every size computer application from downtime, damage and data loss due to power problems. SmartPro Tower UPS Systems provide protection against all types of power problems, including brownouts, blackouts, surges and line noise. Line-interactive operation—also known as automatic voltage regulation (AVR)—keeps equipment working through low voltage (brownouts) and high voltage conditions indefinitely, without draining battery power. SmartPro Tower UPS Systems provide reliable battery power to keep computers up and running through short blackouts and allow enough time to save data and shut down during longer ones. In addition, all AC outlets stop damaging surges and filter disruptive line noise.

Control Individual Outlets

Prioritize the uptime of mission-critical loads during a power failure with switched outlet banks featured on select models. Use PowerAlert to reboot a locked-up computer by cycling the power on and off to select outlets on the UPS system. You can also program PowerAlert to shut down less important systems during an extended blackout, preserving battery runtime for critical equipment.

Manage Multiple Servers

Multiple built-in communication ports provide the ability to simultaneously manage multiple servers without the need for accessories. Using PowerAlert software, select models with multiple communication ports will simultaneously provide intelligent communications, shutdown commands and reporting on multiple servers—even if they are running different operating systems.*

* Additional PowerAlert features: pages 30 and 31.

Extend Runtime

Select models accept external battery packs to provide extended runtime. Without enough runtime, businesses stand to lose up to $70,000 per hour according to a survey on the cost of lost productivity for an hour of network downtime.*

* IDC.
Feature Focus

**A. Extended Runtime Capability**
Select models feature connectors that accept optional external battery packs for additional runtime. External batteries can be “hot-swapped.” Go to www.tripplite.com/runtime for interactive runtime charts for every UPS model.

**B. Switched Outlet Banks**
Prioritize the uptime of mission-critical loads during a power failure. Select models feature switched outlet banks that you can control independently through PowerAlert software. Use PowerAlert to shut down less important systems first, preserving battery runtime for critical equipment.

**C. Multiple Server Control**
Up to four built-in communication ports on select models simultaneously provide shutdown commands and reporting on multiple servers without the need for accessories.

**D. Variety of Output Options**
15-20- and 30-amp outlets ensure maximum connection flexibility.

---

**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Capacity</th>
<th>Typical Runtime* (Half/Full Load)</th>
<th>Extended Runtime</th>
<th>Input/Output Voltage (Frequency 60Hz)</th>
<th>AC Outlet Quantity (Type)</th>
<th>Switched Outlet Banks</th>
<th>USB Ports</th>
<th>Serial Ports</th>
<th>SNMP Slot</th>
<th>Input Plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMART1550SD</td>
<td>750VA/450W</td>
<td>16.2/5.6 min.</td>
<td></td>
<td>120V</td>
<td>6 (5-15R)</td>
<td>—</td>
<td>1</td>
<td>—</td>
<td>—</td>
<td>5-15P</td>
</tr>
<tr>
<td>SMART1700SE</td>
<td>700VA/450W</td>
<td>16.9/5.9 min.</td>
<td></td>
<td>120V</td>
<td>6 (5-15R)</td>
<td>—</td>
<td>1</td>
<td>1</td>
<td>—</td>
<td>5-15P</td>
</tr>
<tr>
<td>SMART2200V</td>
<td>2200VA/1600W</td>
<td>19/7 min.</td>
<td></td>
<td>120V</td>
<td>6 (5-15R)</td>
<td>1x1</td>
<td>1</td>
<td>1</td>
<td>Y</td>
<td>5-15P</td>
</tr>
<tr>
<td>SMART2200S</td>
<td>2200VA/1600W</td>
<td>13.5 min.</td>
<td></td>
<td>120V</td>
<td>6 (5-15R)</td>
<td>1x1</td>
<td>1</td>
<td>Y</td>
<td>5-15P</td>
<td>5-15P (C14)</td>
</tr>
<tr>
<td>SMART2200VSX</td>
<td>2200VA/1600W</td>
<td>19/7+ min.</td>
<td></td>
<td>120V</td>
<td>7 (5-15R), 2 (5-15/20R)</td>
<td>3x2</td>
<td>2</td>
<td>2</td>
<td>Y</td>
<td>5-20P</td>
</tr>
</tbody>
</table>

---

**B. Battery Replacement**
Tripp Lite UPS batteries will protect equipment for several years with normal use. Most models feature a removable panel which allows for internal battery replacement*. Internal batteries can be “hot-swapped”.

---

**H. Short Circuit Protection**

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**Visit www.tripplite.com/smartpro for the latest specifications, including weights and dimensions.**

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Visit www.tripplite.com/runtime for the latest specifications, including weights and dimensions.
Deliver True On-Line, Pure Sine Wave, Zero Transfer Time Operation

SmartOnline Rackmount/Tower UPS Systems provide mission-critical equipment with the highest level of power protection. Double-conversion technology continually converts incoming AC power into filtered DC power, and then resynthesizes it back into AC power with a pure sine wave. Constant on-line operation completely isolates sensitive equipment from every power problem on the AC line. SmartOnline models accept the widest range of incoming voltage and frequency variations, delivering the most consistently pure, highly regulated power: ±3% or ±2% VAC.

SmartOnline Rackmount/Tower UPS Systems provide reliable battery power with zero transfer time to keep networks up and running through short blackouts and allow enough time to save data and shut down during longer ones. In addition, they stop damaging surges and filter disruptive line noise.

TRUE ON-LINE

- 750VA - 20kVA
- Zero Transfer Time, Double Conversion
- Wide Input Voltage Range with Precision-Regulated Output
- Extended Runtime Options
- Automatic Internal Bypass
- Maintenance Bypass and Detachable PDU Options

Manage Multiple Servers

Using PowerAlert software, select models with multiple communication ports will simultaneously provide intelligent communications, shutdown commands and reporting on multiple servers—even if they are running different operating systems.* Intelligent communications allow you to check UPS status (including battery charge level and runtime remaining) and AC power status as well as reboot switched outlet banks.

* Additional PowerAlert features: pages 30 and 31.

Control Individual Outlets

Switched outlet banks on select models can be controlled independently through PowerAlert. Use PowerAlert to reboot a locked-up computer by cycling the power on and off to select outlets on the UPS system. You can also program PowerAlert to shut down less important systems during an extended blackout, preserving battery runtime for critical equipment.

Save Electricity & Reduce Costs

SmartOnline UPS Systems are up to 97% efficient in economy mode, a potential increase of 10% or more versus comparable on-line UPS systems. Economy mode can make your data center significantly cooler, greener and more cost-effective.
Provide Maximum Availability with Hot-Swappable Design

Hot-Swap the Power Module . . .

All SmartOnline Rackmount/Tower UPS Systems include an automatic internal bypass that ensures maximum availability of connected equipment by passing through utility power in the event of an internal fault or overload. Hot-swappable models include two additional features that ensure continuous availability: a maintenance bypass switch and a modular design. When the switch is set to “bypass”, the power module can be removed for maintenance while the detachable PDU remains installed, continuing to power connected equipment as long as utility power is present. Hot-swappable models are designated by the \( \text{\textcircled{A}} \) symbol in the specifications chart.

Select hot-swappable models (designated by the \( \text{\textcircled{A}} \) symbol) include dual power modules for built-in N+1 redundancy.

. . . Detachable PDU Continues Powering Equipment

Adapt to Rack / Tower / Stack Applications

Adapt all models from rackmount to tower or stacking applications.
- Removable rack hardware
- Optional tower base stands (2-9USTAND)

Display Power Conditions

Front-panel LEDs and/or LCD help you identify power problems and solutions.

Extend Runtime

All models accept external battery packs to provide extended runtime. Without enough runtime, businesses stand to lose up to $70,000 per hour according to a survey on the cost of lost productivity for an hour of network downtime.*

* IDC.

Extending runtime is as simple as plugging in additional external battery packs.

Extended Runtime Charts

Go to www.tripplite.com/runtime for interactive battery backup runtime charts for every UPS model.
Feature Focus

A Extended Runtime Capability
All models feature connectors that accept optional external battery packs for additional runtime. External batteries can be "hot-swapped". Go to www.tripplite.com/runtime for interactive runtime charts for every UPS model.

B Detachable Bypass PDU
Passes through power to connected equipment if power module is removed for maintenance.

C Switched Outlet Banks
Select models feature switched outlet banks that you can control independently through PowerAlert software.

D Server Support
Up to two built-in communication ports on select models simultaneously provide shutdown commands and reporting on multiple servers without the need for accessories.

E Bypass Operation
A bypass switch allows the power module to be removed for maintenance, repair or replacement while continuously passing through utility power to connected equipment.

F Accessory Card Slot
Accepts optional internal SNMPWEBCARD or RELAYIOCARD. SNMPWEBCARD provides network interface for monitoring and control via SNMP, Web, SSH or telnet, enabling remote reboots, shutdowns and more. Use with optional ENVIROSENSE to monitor temperature and humidity or to monitor alarms and security systems. RELAYIOCARD provides a programmable contact closure interface with 6 outputs and 1 input.

G Short Circuit Protection
Circuit breakers help guard against input/output short circuits and overloads.

H Emergency Power Off
A jack included with select models allows remote emergency shutdown. All other models can perform emergency shutdown by attaching an optional cable (model 730909, sold separately) to the communication port. The optional cable includes a DB9 connector to allow server support and a jack to allow emergency shutdown.

Standard Models
Maximum Availability Features: Internal Bypass • Hot-Swappable Batteries

SU2200RTXL2UA UPS System Rear Panel with Internal Batteries.

SU3000RTXL3U/ SU3000RTXR3U UPS System Rear Panel with Internal Batteries.

SU5000RT3U UPS System Rear Panel with Isolation Transformer and External Battery Pack.
1. **Hardwire, Single-Phase Input (select models)**
   To convert select models to hardwire input and output, select optional hardwire input/output PDUs. To add an input plug and outlets to SU6000RT3U and SU6000RT3UHV select SUPDM alternate back panel accessories.

2. **TEL/DSL/Ethernet Surge Protection (select models)**
   Protect Internet-connected or networked computers from damage on a single telephone or Ethernet line with surge-protected jacks featured on select models.

3. **Variety of Output Options**
   15-, 20- and 30-amp outlets on select models ensure maximum connection flexibility.

4. **Front Panel Battery Replacement (not shown)**
   1,000 to 3,000VA models feature a convenient front access door to replace internal batteries.* All models allow “hot-swap” battery replacement.

* Tripp Lite offers a complete line of replacement battery cartridges (R.B.C.); visit www.tripplite.com.

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**Hot-Swappable Modular Models**

*Maximum Availability Features:*
- Internal Bypass
- Bypass Switch
- Hot-Swappable Power Module
- Hot-Swappable Batteries
## Specifications

<table>
<thead>
<tr>
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<th>Input Voltage Range</th>
<th>Nominal Output Voltage</th>
<th>AC Outlet Quantity</th>
<th>USB Ports</th>
<th>Serial Ports</th>
<th>CC Ports</th>
<th>Input Plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>SU750RTXL2U</td>
<td>750VA/600W</td>
<td>11/4 + min.</td>
<td></td>
<td>2U</td>
<td>85-150V</td>
<td>120V (100/110/120)</td>
<td>6 (5-15R); [2x1]</td>
<td>1</td>
<td>1</td>
<td>—</td>
<td>5-15P</td>
</tr>
<tr>
<td>SU1000RTXL2U</td>
<td>1000VA/800W</td>
<td>14/5 + min.</td>
<td></td>
<td>2U</td>
<td>55-150V</td>
<td>120V (100/110/120)</td>
<td>6 (5-15R); [2x1]</td>
<td>1</td>
<td>1</td>
<td>—</td>
<td>5-15P</td>
</tr>
<tr>
<td>SU1500RTXL2U</td>
<td>1500VA/1200W</td>
<td>14/5 + min.</td>
<td></td>
<td>2U</td>
<td>65-150V</td>
<td>120V (100/110/120)</td>
<td>6 (5-15R); [2x1]</td>
<td>1</td>
<td>1</td>
<td>—</td>
<td>5-15P</td>
</tr>
<tr>
<td>SU2200RTXL2U</td>
<td>2200VA/1800W</td>
<td>12/4 + min.</td>
<td></td>
<td>2U</td>
<td>55-150V</td>
<td>120V (100/110/120)</td>
<td>6 (5-15R); [2x1]</td>
<td>1</td>
<td>1</td>
<td>—</td>
<td>5-20P</td>
</tr>
<tr>
<td>SU3000RTXL2U</td>
<td>3000VA/2500W</td>
<td>15/6 + min.</td>
<td></td>
<td>2U</td>
<td>60-144V</td>
<td>120V (100/110/120)</td>
<td>6 (5-15R); [2x1]</td>
<td>1</td>
<td>1</td>
<td>—</td>
<td>L5-30P</td>
</tr>
<tr>
<td>SU3000RTXL3U</td>
<td>3000VA/2400W</td>
<td>14/5 + min.</td>
<td></td>
<td>3U</td>
<td>65-150V</td>
<td>120V (10/110/120)</td>
<td>4 (5-15R), 4 (5-15/20R), [2x4]</td>
<td>1</td>
<td>1</td>
<td>—</td>
<td>L5-30P</td>
</tr>
<tr>
<td>SU3000RTXL3UHV</td>
<td>3000VA/2400W</td>
<td>14/5 + min.</td>
<td></td>
<td>3U</td>
<td>160-275V</td>
<td>208/240V</td>
<td>6 (6-15R, 2 (6-20R); [1x2, 1x4]</td>
<td>—</td>
<td>1</td>
<td>—</td>
<td>L6-20P</td>
</tr>
<tr>
<td>SU5000RT3UHV</td>
<td>3000VA/2700W</td>
<td>11/4 + min.</td>
<td></td>
<td>3U</td>
<td>55-150V</td>
<td>120V (100/110/120)</td>
<td>4 (5-15R), 4 (5-15/20R), 1 (5-30R); [2x4]</td>
<td>1</td>
<td>1</td>
<td>—</td>
<td>L5-30P</td>
</tr>
<tr>
<td>SU5000RT3UHV2U</td>
<td>3000VA/2400W</td>
<td>13/2 + min.</td>
<td></td>
<td>3U</td>
<td>65-150V</td>
<td>120V (10/110/120)</td>
<td>4 (5-15R), 4 (5-15/20R), 1 (5-30R); [2x4]</td>
<td>1</td>
<td>1</td>
<td>—</td>
<td>L5-30P</td>
</tr>
<tr>
<td>SU6000RT4UTF</td>
<td>6kVA/5.4kW</td>
<td>20/8 + min.</td>
<td></td>
<td>4U</td>
<td>156-276V</td>
<td>208/240V</td>
<td>2 (L6-20R, 2 (L6-30R), 12 (5-15/20R))</td>
<td>1</td>
<td>1</td>
<td>—</td>
<td>L6-30P</td>
</tr>
<tr>
<td>SU6000RT4UTF</td>
<td>6kVA/5.4kW</td>
<td>11/3 + min.</td>
<td></td>
<td>6U</td>
<td>100-300V</td>
<td>208/240V</td>
<td>2 (L6-20R, 2 (L6-30R), 12 (5-15/20R))</td>
<td>1</td>
<td>1</td>
<td>—</td>
<td>L6-30P</td>
</tr>
<tr>
<td>SU6000RT4UTF9</td>
<td>6kVA/5.4kW</td>
<td>8/5 + min.</td>
<td></td>
<td>6U</td>
<td>100-300V</td>
<td>208/240V + 120V</td>
<td>2 (L6-20R, 2 (L6-30R), 12 (5-15/20R))</td>
<td>1</td>
<td>1</td>
<td>—</td>
<td>L6-30P</td>
</tr>
<tr>
<td>SU6000RT4UTF9W</td>
<td>6kVA/5.4kW</td>
<td>8/5 + min.</td>
<td></td>
<td>6U</td>
<td>100-300V</td>
<td>208/240V + 120V</td>
<td>2 (L6-20R, 2 (L6-30R), 12 (5-15/20R))</td>
<td>1</td>
<td>1</td>
<td>—</td>
<td>L6-30P</td>
</tr>
<tr>
<td>SU8000RT3U</td>
<td>8kVA/7.2kW</td>
<td>13/5.5 + min.</td>
<td></td>
<td>6U</td>
<td>100-300V</td>
<td>208/240V + 120V</td>
<td>2 (L6-20R, 2 (L6-30R), 4 (5-15R), 8 (5-15/20R), 12 (5-15/20R))</td>
<td>1</td>
<td>1</td>
<td>—</td>
<td>Hardwire</td>
</tr>
<tr>
<td>SU8000RT3U1TF</td>
<td>8kVA/7.2kW</td>
<td>13/5.5 + min.</td>
<td></td>
<td>8U</td>
<td>100-300V</td>
<td>208V + 120V (60Hz)</td>
<td>4 (5-15R), 2 (L6-30R), 12 (5-15/20R))</td>
<td>1</td>
<td>1</td>
<td>—</td>
<td>Hardwire</td>
</tr>
<tr>
<td>SU8000RT3U5</td>
<td>8kVA/7.2kW</td>
<td>13/5.5 + min.</td>
<td></td>
<td>8U</td>
<td>100-300V</td>
<td>208V + 120V (60Hz)</td>
<td>4 (5-15R), 2 (L6-30R), 12 (5-15/20R))</td>
<td>1</td>
<td>1</td>
<td>—</td>
<td>Hardwire</td>
</tr>
<tr>
<td>SU10000RT3U</td>
<td>10kVA/8.2kW</td>
<td>12/4.3 + min.</td>
<td></td>
<td>6U</td>
<td>100-300V</td>
<td>208/240V + 120V</td>
<td>4 (5-15R), 2 (L6-30R), 12 (5-15/20R))</td>
<td>1</td>
<td>1</td>
<td>—</td>
<td>Hardwire</td>
</tr>
</tbody>
</table>

(C) Model with hot-swappable power module(s).  (E) Model with LCD.  (F) Model with expandable runtime.
### Specifications

**SmartOnline Single-Phase UPS Systems (3-wire input) with Dual Power Modules and Built-in N+1 Redundancy (N+1 if load is 50% or less)**

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Capacity</th>
<th>Typical Runtime</th>
<th>Extended Runtime</th>
<th>Total Rack Size</th>
<th>Input Voltage Range</th>
<th>Nominal Output Voltage</th>
<th>AC Outlet</th>
<th>USB Ports</th>
<th>Serial Ports</th>
<th>CC Ports</th>
<th>Input Plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>SU12KRT4UHW</td>
<td>12kVA/9.8kW</td>
<td>8.5/2 + min.</td>
<td>8U</td>
<td>100-300V</td>
<td>208/240V</td>
<td>8 (5-15R), 8 (C19)</td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
<td>Hardware</td>
</tr>
<tr>
<td>SU12KRTHW</td>
<td>12kVA/9.8kW</td>
<td>8.5/2 + min.</td>
<td>8U</td>
<td>100-300V</td>
<td>208/240V</td>
<td>8 (5-15R), 8 (C19)</td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
<td>Hardware</td>
</tr>
</tbody>
</table>

**SmartOnline Split-Phase UPS Systems (4-wire input)**

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Capacity</th>
<th>Typical Runtime</th>
<th>Extended Runtime</th>
<th>Total Rack Size</th>
<th>Input Voltage Range</th>
<th>Nominal Output Voltage</th>
<th>AC Outlet</th>
<th>USB Ports</th>
<th>Serial Ports</th>
<th>CC Ports</th>
<th>Input Plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>SU5000RT4U</td>
<td>5kVA/3.8kW</td>
<td>14/6 + min.</td>
<td>4U</td>
<td>65-140V (L-N)</td>
<td>208/240V + 120V</td>
<td>8 (5-15R), 2 (L6-20R), 2 (L6-30R)</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td>L14-30P</td>
</tr>
<tr>
<td>SU6000RT4U</td>
<td>6kVA/4.2kW</td>
<td>20/8 + min.</td>
<td>4U</td>
<td>65-140V (L-N)</td>
<td>208/240V + 120V</td>
<td>8 (5-15R), 2 (L6-20R), 2 (L6-30R)</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td>L14-30P</td>
</tr>
<tr>
<td>SU8000RT4U</td>
<td>8kVA/5.6kW</td>
<td>12.5/5 + min.</td>
<td>4U</td>
<td>65-140V (L-N)</td>
<td>208/240V + 120V</td>
<td>4 (5-15R), 2 (L6-20R), 2 (L6-30R), Hardwire</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td>Hardwire</td>
</tr>
<tr>
<td>SU12000RT4U</td>
<td>12kVA/8.4kW</td>
<td>12/5.4 + min.</td>
<td>8U</td>
<td>85-140V (L-N)</td>
<td>208/240V + 120V</td>
<td>5 (5-15R), 2 (L6-30R), 6 (C19), Hardwire</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td>Hardware</td>
</tr>
<tr>
<td>SU16000RT4U</td>
<td>16kVA/11.2kW</td>
<td>12/5.4 + min.</td>
<td>8U</td>
<td>85-140V (L-N)</td>
<td>208/240V + 120V</td>
<td>5 (5-15R), 2 (L6-30R), 6 (C19), Hardwire</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td>Hardware</td>
</tr>
</tbody>
</table>

**External Battery Packs and Accessories**

- BP24V70-3U: 24V external battery pack and cable, 3U. Expandable. RED/BLACK 2-point connector.
- BP48V60RT-3U: 48V external battery pack and cable, 3U. Expandable. BLUE 2-point connector.
- BP192V18-4U: 192V external battery pack and cable, 4U. Expandable. YELLOW INSULATED 2-point connector.
- BP240V10RT3U: 240V external battery pack and cable, 3U. Expandable. BLACK 3-point connector.
- SU5000XFMRT2U: 5kVA transformer, 208V input, 208V+120V output. L6-30P input. 12 (5-15R)+8 (5-15R)+1 (L6-30P) outlets.
- SU6000XFMRT2U: 6kVA transformer, 208/240V input, 208/240V+120V output. L6-30P or hardwire input. 4 (5-15R)+8 (5-15R)+1 (L6-30P) outlets + hardwire.

Visit [www.tripplite.com/smartonline](http://www.tripplite.com/smartonline) for the latest specifications, including weights and dimensions.
SmartOnline True On-Line Tower UPS Systems

Deliver True On-Line, Pure Sine Wave, Zero Transfer Time Operation

SmartOnline Tower UPS Systems provide mission-critical equipment with the highest level of power protection. Double-conversion technology continually converts incoming AC power into filtered DC power, and then resynthesizes it back into AC power with a pure sine wave. Constant on-line operation completely isolates sensitive equipment from every power problem on the AC line. SmartOnline models accept the widest range of incoming voltage and frequency variations, delivering the most consistently pure, highly-regulated power: ±3% or ±2% VAC and ±0.05 Hz.

SmartOnline Tower UPS Systems provide reliable battery power with zero transfer time to keep networks up and running through short blackouts and allow enough time to save data and shut down during longer ones. In addition, they stop damaging surges and filter disruptive line noise. All models ensure maximum availability with an automatic internal bypass which passes through utility power in the event of an internal fault or overload.

Manage Multiple Servers

Using PowerAlert software, simultaneously manage multiple servers—even if they are running different operating systems.* Intelligent communications allow you to check UPS status (including battery charge level and runtime remaining) and AC power status. You can use PowerAlert to reboot a locked-up server by cycling the power to select UPS outlets or shut down nonessential systems during a blackout, preserving runtime for critical equipment.

* Additional PowerAlert features: pages 30 and 31.

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► Zero Transfer Time, Double Conversion
► Wide Input Voltage Range with Precision-Regulated Output
► Automatic Internal Bypass
► Internal Batteries and Extended Runtime Options

Extend Runtime

All models accept external battery packs to provide extended runtime. Without enough runtime, businesses stand to lose up to $70,000 per hour according to a survey on the cost of lost productivity for an hour of network downtime.*

* IDC.

Extended Runtime Charts

Go to www.tripplite.com/runtime for interactive battery backup runtime charts for every UPS model.
Feature Focus

A Extended Runtime Capability
All models feature connectors that accept optional external battery packs for additional runtime.

B Switched Outlet Banks
Prioritize the uptime of mission-critical loads during a power failure. All models feature switched outlet banks that you can control independently through PowerAlert software. Use PowerAlert to reboot a locked-up computer or to shut down less important systems, preserving battery runtime for critical equipment.

C Accessory Card Slot
Accepts optional internal SNMPWEBCARD or RELAYIOCARD.

D Multiple Server Support
Built-in communication ports provide shutdown commands and reporting on multiple servers.

E Short Circuit Protection
Circuit breakers help guard against input short circuits and system overloads.

F Emergency Power Off
All models include a jack that allows remote emergency shutdown.

G Tel/Network Surge Protection
Protect Internet-connected or networked computers from damage on a single telephone or Ethernet line.

Display Critical Operational Conditions

SmartOnline Tower UPS Systems feature a front panel LCD or LED display which displays a variety of UPS operational modes and conditions. This interface provides more information than comparable models, allowing you to react more rapidly to an alert before your systems are put at risk.

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Capacity</th>
<th>Typical Runtime(^\text{a}) (Half/Full Load)</th>
<th>Extended Runtime</th>
<th>AC Outlet Quantity (Type)</th>
<th>Input Voltage Range(^\text{b})</th>
<th>Nominal Output Voltage</th>
<th>Switched Outlet Banks</th>
<th>USB Ports</th>
<th>Serial Ports</th>
<th>Input Plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>SU750XL</td>
<td>750VA/600W</td>
<td>11/4+ min.</td>
<td></td>
<td>6 (5-15R)</td>
<td>65-150V</td>
<td>120V (100/110/120V)</td>
<td>2x1</td>
<td>1</td>
<td>1&quot;</td>
<td>5-15P</td>
</tr>
<tr>
<td>SU1000XLA</td>
<td>1000VA/800W</td>
<td>14/4.5+ min.</td>
<td></td>
<td>6 (5-15R)</td>
<td>65-150V</td>
<td>120V (100/110/120V)</td>
<td>2x1</td>
<td>1</td>
<td>1&quot;</td>
<td>5-15P</td>
</tr>
<tr>
<td>SU1000XLCD</td>
<td>1000VA/900W</td>
<td>12/3.6+ min.</td>
<td></td>
<td>6 (5-15R)</td>
<td>55-150V</td>
<td>120V (100/110/120V)</td>
<td>2x1</td>
<td>1</td>
<td>1&quot;</td>
<td>5-15P</td>
</tr>
<tr>
<td>SU1500XLA</td>
<td>1500VA/1200W</td>
<td>14/4.5+ min.</td>
<td></td>
<td>6 (5-15R)</td>
<td>65-150V</td>
<td>120V (100/110/120V)</td>
<td>2x1</td>
<td>1</td>
<td>1&quot;</td>
<td>5-15P</td>
</tr>
<tr>
<td>SU1500XLCD</td>
<td>1500VA/1350W</td>
<td>14/4.5+ min.</td>
<td></td>
<td>6 (5-15R)</td>
<td>55-150V</td>
<td>120V (100/110/120V/127V)</td>
<td>2x3</td>
<td>1</td>
<td>1</td>
<td>5-15P</td>
</tr>
<tr>
<td>SU2200XLA</td>
<td>2200VA/1600W</td>
<td>14/4.5+ min.</td>
<td></td>
<td>6 (5-15/20R), 1 (5-20R)</td>
<td>65-150V</td>
<td>120V (110/120V)</td>
<td>2x3</td>
<td>1</td>
<td>1</td>
<td>5-20P</td>
</tr>
<tr>
<td>SU2200XLCD</td>
<td>2200VA/1800W</td>
<td>13/4.5+ min.</td>
<td></td>
<td>6 (5-15/20R), 1 (5-20R)</td>
<td>55-150V</td>
<td>120V (100/110/120V/127V)</td>
<td>2x3</td>
<td>1</td>
<td>1</td>
<td>5-20P</td>
</tr>
<tr>
<td>SU3000XL</td>
<td>3000VA/2400W</td>
<td>14/4.5+ min.</td>
<td></td>
<td>6 (5-15/20R), 1 (5-20R)</td>
<td>65-150V</td>
<td>120V (110/120V)</td>
<td>2x4</td>
<td>1</td>
<td>1</td>
<td>L5-30P</td>
</tr>
<tr>
<td>SU3000XLCD</td>
<td>3000VA/2700W</td>
<td>13/4.1+ min.</td>
<td></td>
<td>6 (5-15/20R), 1 (5-30R)</td>
<td>55-150V</td>
<td>120V (100/110/120/127V)</td>
<td>2x4</td>
<td>1</td>
<td>1</td>
<td>L5-30P</td>
</tr>
</tbody>
</table>

External Battery Packs and Accessories


- SNMPWEBCARD: Adds Ethernet (RJ45) network interface to UPS for remote monitoring and control via SNMP, Web, SSH or telnet.
- ENVIROSENSE: Connects to SNMPWEBCARD for remote temperature and humidity monitoring. Also monitors contact-closure devices.
- RELAYIOCARD: Adds programmable contact-closure interface to compatible UPS systems. Includes six outputs and one input.

Certifications vary by model. All models include an accessory card slot, 10 ft. power cord, EPO jack and Tel/Network line surge protection. (A) Runtime varies with load, battery condition and other factors. Runtimes are expandable using optional external battery packs. (B) Frequency is 50/60Hz. Input voltage range varies with load. Maximum range shown. (C) Includes a combination RS-232 serial and contact-closure port.

Visit www.tripplite.com/smartonline for the latest specifications, including weights and dimensions.
SmartOnline Modular 3-Phase
True On-Line Tower UPS Systems

Deliver True On-Line, Pure Sine Wave, Zero Transfer Time Operation

SmartOnline Modular 3-Phase UPS Systems provide mission-critical equipment with the highest level of power protection. Double-conversion technology continually converts incoming AC power into filtered DC power, and then resynthesizes it back into AC power with a pure sine wave. Constant on-line operation completely isolates sensitive equipment from every power problem on the AC line. SmartOnline Modular 3-Phase UPS Systems automatically correct the widest range of incoming voltages of any models in their class. A wider voltage correction range saves battery power and decreases battery wear by up to 40%, reducing battery replacement costs. SmartOnline Modular 3-Phase models provide reliable battery power with zero transfer time to keep networks up and running safely through short blackouts and allow enough time to safely shut down or switch to generator backup during longer ones. In addition, all models stop damaging surges and filter disruptive line noise.

SmartOnline Modular 3-Phase UPS Systems are ideal for protecting critical equipment in computing, networking or telecommunications environments.

TRUE ON-LINE
- 40 - 80kVA (Up to 160kVA in Parallel)
- 3-Phase Hardwire (120/208V or 277/480V)
- N+1 Modular Architecture
- 1+1 Parallel Capability with Patented Dual DSP Control
- Low THDi for 1:1 Generator Sizing
- Zero Transfer Time, Double Conversion
- Advanced IGBT Rectifier and Inverter Technology with Power Factor Correction (PFC)
- Real-Time Log of 500 Events

Save Installation Costs (1:1 Generator Sizing)

SmartOnline Modular 3-Phase UPS Systems include a generator-friendly design that lowers installation costs. The SmartOnline UPS System’s high input power factor and Digital Signal Processor (DSP) technology create less than 4% input Total Harmonic Distortion (THDi), enabling a 1:1 sizing of the UPS System to a generator set. Generators are affected by the THDi that a UPS system passes back through its input into the overall power system. If the THDi is high, managers are forced to oversize generators in order to compensate. With the SmartOnline UPS System’s low THDi, generators run cooler and last longer, allowing managers to save installation costs by installing a generator with a capacity equal to their equipment load (a 1:1 ratio). In addition, low THDi eliminates the need to oversize cables and breakers and eliminates nuisance breaker tripping and overheated transformers.
Save Operating Costs

SmartOnline Modular 3-Phase UPS Systems include advanced IGBT inverter technology that provides the highest efficiency (up to 96% in economy mode) of any UPS system in their class. High efficiency operation lowers UPS system operating and related cooling costs and lengthens UPS system service life. Since inverter components are smaller, SmartOnline models also save significant facility floor space compared to legacy systems.

Include Additional Availability Features

A manual bypass breaker as well as an automatic bypass function included on SmartOnline Modular 3-Phase UPS Systems ensure the constant availability of connected equipment by safely passing through AC power if the UPS system requires maintenance. In addition, a battery cold-start function (initiated through the control panel) allows you to restart your UPS system and connected equipment during an extended blackout for periodic system access or retrieval of vital data.

Provide Optional Extended Service / Support Programs

Start-Up and On-Site Service Programs are recommended and available separately to enhance the reliability of the installation. Preventative maintenance services are also available for added peace of mind.

Provide Maximum System Availability with N+1 Modular Architecture & 1+1 Parallel Capability

N+1 Modular Architecture

Maximum Availability with N+1 Redundancy

- Multiple, Redundant Power Modules
- Dual, Redundant Controller Power Supplies

All SmartOnline Modular 3-Phase UPS Systems include multiple, self-contained power modules that provide fail-safe redundancy. In an N+1 configuration, a power module can be hot-swapped (with the load powered) if maintenance is required.

Modular Architecture Provides N+1 (and Greater) Redundancy

<table>
<thead>
<tr>
<th>Equipment Load (&quot;N&quot;)</th>
<th>UPS System Model</th>
<th>20kVA</th>
<th>40kVA</th>
<th>60kVA</th>
<th>80kVA</th>
</tr>
</thead>
<tbody>
<tr>
<td>SU40K</td>
<td>N+1</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>SU60K &amp; SU60KTV</td>
<td>N+2</td>
<td>N+1</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>SU80K &amp; SU80KTV</td>
<td>N+3</td>
<td>N+2</td>
<td>N+1</td>
<td>N</td>
<td></td>
</tr>
</tbody>
</table>

1+1 Parallel Capability

Provides Redundancy

Connect two SmartOnline UPS Systems in parallel (1+1) to provide redundancy for the power distribution system. If one UPS is removed or taken offline for maintenance, the second UPS supports the equipment load automatically—without requiring additional programming. SmartOnline UPS Systems are parallel-ready and use a non-proprietary, wall-mounted parallel distribution panel. Patented dual DSP technology provides state-of-the-art parallel control.

Increases Capacity

Connect two SmartOnline Modular 3-Phase UPS Systems in parallel to double the capacity offered to a single equipment load.

Note: UPS systems connected in parallel must have the same capacity and voltage. Parallel connection also requires a wall-mounted parallel tie cabinet.
The UPS System’s power module cabinet delivers true on-line, pure sine wave power to connected equipment.

**Extended Runtime Capability** (rear panel access, not shown)

40KVA models include internal batteries. 60KVA and 80KVA models require a stand-alone, hardwired external battery cabinet (available separately from Tripp Lite) to provide battery backup support. All models accept connection of additional external battery cabinets for extended runtime. Contact Tripp Lite for a runtime solution customized for your application.

**Advanced Communications Capabilities**

**RS-232 Interface**

Provides shutdown commands and reporting on a single server.

**Accessory Card Slot**

Accepts optional internal SNMPWEBCARD.

SNMPWEBCARD provides network interface for monitoring and control via SNMP, Web, SSH or telnet, enabling remote reboots, shutdowns and more. Use with optional ENVIROSENSE to monitor temperature and humidity or to control and monitor alarms and security systems.

**1+1 Parallel Interface**

Allows two UPS systems to support a single equipment load.

**Dry-Contact Interface**

(including “EPO” emergency power off function)

Allows remote emergency shutdown of the UPS system. Also allows the UPS system to monitor a variety of input/output conditions, including external battery module conditions.

**Hardwire, 3-Phase (4-wire, wye) Output**

(rear panel access, not shown)

Connects the power module directly to your equipment or a PDU (power distribution unit).

**Hardwire, 3-Phase (4-wire, wye) Input**

(rear panel access, not shown)

Connects the power module directly to the 3-Phase utility power source.

**Cooling Fans**

Keep UPS system at optimal operating temperature, prolonging service life.

**Removable Mounting Brackets, Rolling Casters & Levelers**

Provide added mobility and stability during installation.

**Multiple, Redundant Hot-Swappable 20kVA Power Modules**

All SmartOnline Modular 3-Phase UPS Systems include multiple, self-contained power modules that provide the ultimate level of fail-safe redundancy. In an N+1 configuration, a power module can be hot-swapped (with the load powered) if maintenance is required.

**Bypass Operation**

A manual bypass breaker as well as an automatic static bypass ensure maximum availability of connected equipment by safely passing through AC power if the UPS system requires maintenance.

**Short Circuit Protection**

Breakers safeguard your equipment, the UPS system and your electrical infrastructure against potential damage due to input or output short circuits and system overloads.
Display & Control Panel
This interface includes a variety of UPS operational modes and conditions, allowing you to react more rapidly to an alert before your systems are put at risk.

1. LCD Screen: lets you access more precise information than provided by LEDs alone. Text and intuitive operational block diagrams communicate a variety of fault/warning and UPS system operational conditions.

Real-Time Event Log Screen (Up to 500 Events Listed)
Event log helps you decisively react to changing conditions by providing a broader context of UPS operation.

Dynamic Battery Management Screen
Use the LCD display and control buttons to select optional settings for charge current and battery equalization—lengthening battery service life. Also use the control panel to “cold start” the UPS system.

2. LED Set: indicates normal on-line operation, on-battery operation, bypass operation or an input fault condition.

3. Inverter On/Off Buttons

4. LCD Screen Control Buttons

5. “EPO” (Emergency Power Off) Button: onsite safety measure (covered to protect against accidental contact) completely shuts down the UPS.

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Capacity</th>
<th>Typical Runtime (Half/Full Load)</th>
<th>Included External Battery String(s) (Required for 60kVA &amp; 80kVA Models)</th>
<th>Input/Output Voltage (Hardwire, 50/60Hz Auto-Selecting)</th>
<th>Input Voltage Range (Frequency 60Hz)</th>
<th>Communication Parallel Interface (USB)</th>
<th>Ports Contact Interface</th>
<th>SNMP/Web Accessory Slot</th>
</tr>
</thead>
<tbody>
<tr>
<td>SU40K</td>
<td>40kVA/32kW</td>
<td>13/5.5+ min.</td>
<td>A</td>
<td>120/208VAC 3a, 4-wire (plus ground), wye</td>
<td>94-150/163-260VAC</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>SU60K</td>
<td>60kVA/48kW</td>
<td>Contact Tripp Lite</td>
<td>A</td>
<td>120/208VAC 3a, 4-wire (plus ground), wye</td>
<td>94-150/163-260VAC</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>SU60KTV</td>
<td>60kVA/48kW</td>
<td>Contact Tripp Lite</td>
<td>A</td>
<td>277/480VAC 3a, 4-wire (plus ground), wye</td>
<td>218-348/378-603VAC</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>SU80K</td>
<td>80kVA/64kW</td>
<td>Contact Tripp Lite</td>
<td>A</td>
<td>120/208VAC 3a, 4-wire (plus ground), wye</td>
<td>94-150/163-260VAC</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>SU80KTV</td>
<td>80kVA/64kW</td>
<td>Contact Tripp Lite</td>
<td>A</td>
<td>277/480VAC 3a, 4-wire (plus ground), wye</td>
<td>218-348/378-603VAC</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

External Battery Cabinets, Internal Battery String and Accessories

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BP480V26B</td>
<td>+/- 240VDC hardwired external battery cabinet. Multiple cabinets can be daisy-chained. Matches UPS cabinet.</td>
</tr>
<tr>
<td>BP480V40C</td>
<td>+/- 240VDC hardwired external battery cabinet. Multiple cabinets can be daisy-chained. Matches UPS cabinet.</td>
</tr>
<tr>
<td>BP480V55</td>
<td>+/- 240VDC hardwired external battery cabinet. Multiple cabinets can be daisy-chained. 10-year design life.</td>
</tr>
<tr>
<td>BP480V75</td>
<td>+/- 240VDC hardwired external battery cabinet. Multiple cabinets can be daisy-chained. 10-year design life.</td>
</tr>
<tr>
<td>BP480V103</td>
<td>+/- 240VDC hardwired external battery cabinet. Multiple cabinets can be daisy-chained. 10-year design life.</td>
</tr>
<tr>
<td>BP480V140</td>
<td>+/- 240VDC hardwired external battery cabinet. Multiple cabinets can be daisy-chained. 10-year design life.</td>
</tr>
<tr>
<td>SUPC2MBP80K</td>
<td>240VDC replacement internal battery string for SU40K only.</td>
</tr>
<tr>
<td>SU40KMB8PK</td>
<td>External maintenance bypass panel for SU40K only. Wall-mount. Kirk Key interlock system prevents sequence of operation errors.</td>
</tr>
<tr>
<td>SU60KMB8PK</td>
<td>External maintenance bypass panel for SU60K only. Wall-mount. Kirk Key interlock system prevents sequence of operation errors.</td>
</tr>
<tr>
<td>SU60KMB8PK</td>
<td>External maintenance bypass panel for SU60K only. Wall-mount. Kirk Key interlock system prevents sequence of operation errors.</td>
</tr>
<tr>
<td>SU80KMB8PK</td>
<td>External maintenance bypass panel for SU80K only. Wall-mount. Kirk Key interlock system prevents sequence of operation errors.</td>
</tr>
<tr>
<td>SU80KMB8PK</td>
<td>External maintenance bypass panel for SU80K only. Wall-mount. Kirk Key interlock system prevents sequence of operation errors.</td>
</tr>
<tr>
<td>SUPC2MBP40K</td>
<td>Parallel tie cabinet for 1+1 parallel connection of SU40K models only. Wall-mount.</td>
</tr>
<tr>
<td>SUPC2MBP60K</td>
<td>Parallel tie cabinet for 1+1 parallel connection of SU60K models only. Wall-mount.</td>
</tr>
<tr>
<td>SUPC2MBP80K</td>
<td>Parallel tie cabinet for 1+1 parallel connection of SU80K models only. Wall-mount.</td>
</tr>
<tr>
<td>SUPC2MBP100K</td>
<td>Parallel tie cabinet for 1+1 parallel connection of SU80KTV models only. Wall-mount.</td>
</tr>
<tr>
<td>SUPC2MBP140K</td>
<td>Parallel tie cabinet for 1+1 parallel connection of SU80KTV models only. Wall-mount.</td>
</tr>
<tr>
<td>SNMPWEBCARD</td>
<td>Adds Ethernet (RJ45) network interface to UPS for remote monitoring and control via SNMP, Web, SSH or telnet.</td>
</tr>
<tr>
<td>ENVIROSENSE</td>
<td>Connects to SNMPWEBCARD for remote temperature and humidity monitoring. Also monitors contact-closure devices.</td>
</tr>
</tbody>
</table>

Visit www.tripplite.com/3phase for the latest specifications, including weights and dimensions.
SmartOnline 3-Phase
True On-Line Tower UPS Systems

Deliver True On-Line, Pure Sine Wave, Zero Transfer Time Operation

SmartOnline 3-Phase UPS Systems provide mission-critical 3-phase equipment with the highest level of power protection. Double-conversion technology continually converts incoming AC power into filtered DC power, and then resynthesizes it back into AC power with a pure sine wave. Constant on-line operation completely isolates sensitive equipment from every power problem on the AC line. SmartOnline models include a wide incoming voltage tolerance, automatically correcting a wide range of incoming voltages* to save battery power for when it's needed during a blackout. SmartOnline 3-Phase UPS Systems provide reliable battery power with zero transfer time to keep networks up and running safely through short blackouts and allow enough time to safely shut down during longer ones. In addition, they stop damaging surges and filter disruptive line noise.

SmartOnline 3-Phase UPS Systems are ideal for protecting critical equipment in computing, networking or telecommunications environments.

* Voltage Correction Range: 96-144V/166-250V.

Deliver Superior Reliability

SmartOnline 3-Phase UPS Systems provide some of the lowest THD (total harmonic distortion) output available, allowing your connected equipment to continuously perform at its peak. In addition, SmartOnline 3-Phase models provide a 3:1 crest factor to safely support a variety of equipment, even equipment with wildly fluctuating power demands.

Provide Maximum Availability

A manual bypass switch and automatic bypass function ensure the constant availability of connected equipment by safely passing through AC power even if the UPS system requires maintenance. In addition, a battery cold-start switch allows you to restart your UPS system and connected equipment during an extended blackout for periodic system access or retrieval of vital data.
**Extend Runtime**

All models feature a robust internal battery capability. Additional internal batteries can be added to provide extended runtime. If more runtime is required, an optional stand-alone battery compartment can be added and configured with additional batteries. Without enough runtime, businesses stand to lose up to $70,000 per hour according to a survey on the cost of lost productivity for an hour of network downtime.*  * IDC.

**Lower Your Cost of Ownership**

Lower your cost of ownership with the superior efficiency of SmartOnline 3-Phase UPS Systems. Extremely efficient operation saves money by lowering electricity consumption. As an extra measure of efficiency, SmartOnline 3-Phase models feature a high power density (packing more capacity into a smaller footprint cabinet) which saves valuable facility space.

**Include Enhanced Communication Capability**

SmartOnline 3-Phase UPS Systems include three communications ports, an SNMP slot and a remote EPO jack. PowerAlert software provides power management, monitoring and control locally or remotely through TCP/IP. Intelligent communications allow you to check UPS status (including battery charge level) and AC power status.*  * Additional PowerAlert features: pages 30 and 31.

**Provide Greater Product Availability**

Since SmartOnline 3-Phase UPS Systems are fully stocked, they feature the lowest lead time (between ordering and installation) in the industry. On average, SmartOnline 3-Phase UPS Systems ship within several days compared to the industry average of 3 to 4 weeks.

**Save Space**

SmartOnline 3-Phase UPS Systems feature the smallest footprints in their class. While many competitive solutions require two bulky modules that must be installed side by side, SmartOnline 3-Phase UPS Systems combine power and battery components into a single, small-footprint module. SmartOnline models save valuable facility floor space in every environment.

**Simplify Runtime Scalability**

In addition to a space-optimized design, SmartOnline UPS Systems include convenient front-panel battery access that simplifies runtime scalability. A robust internal battery capability can be easily extended by installing additional optional internal batteries through the front panel access door.

Room for additional internal battery strings is built into each SmartOnline 3-Phase UPS System—so runtime can be significantly extended without changing the UPS system’s space-saving footprint. SU20K3/3 models provide room for two additional internal battery strings. SU30K3/3 models provide room for one additional internal battery string, and SU20K3/3XR5 and SU30K3/3XR5 models provide room for three additional battery strings.

**Extend Runtime Charts**

Go to [www.tripplite.com/runtime](http://www.tripplite.com/runtime) for interactive battery backup runtime charts for every UPS model.

**Lower Your Cost of Service / Support Programs**

Start-up and on-site service programs are recommended and available separately to enhance the reliability of the installation. Preventative maintenance services are also available for added peace of mind.

**3-Phase Accessories Ease Deployment**

Non-proprietary accessories are available to integrate SmartOnline 3-Phase UPS Systems into your existing infrastructure, including external maintenance bypass panels (with Kirk Key interlock), external battery cabinets and more.
Feature Focus

UPS System Rear Panel (Power & Battery Components in One Module)

The UPS System's power components (located within the top half of the unit) deliver true on-line, pure sine wave power to connected equipment. The power components work with internal batteries (located within the bottom half of the unit) to supply connected equipment with battery backup during a blackout. The internal battery compartment includes vacant slots to accept additional battery strings for extended runtime.

Bypass Operation:
A manual bypass switch as well as an automatic bypass function ensure maximum availability of connected equipment by safely passing through AC power when the UPS system requires maintenance.

Increase Runtime in the Same Small Footprint
SU20K3/3XR5 and SU30K3/3XR5 models integrate an additional internal battery compartment into the UPS design without altering its small footprint. Within the two compartments, both models include 5 internal battery strings (for increased runtime) and room for 3 additional internal battery strings (for runtime scalability).
Extended Runtime Capability (front panel, not shown)

All models feature a robust internal battery capability. Additional internal batteries can be added to provide extended runtime. If more runtime is required, an optional, stand-alone battery compartment can be added and configured with additional batteries. Go to www.tripplite.com/runtime for interactive runtime charts for every UPS model.

Multiple Server Support

Multiple built-in communication ports simultaneously provide shutdown commands and reporting on multiple servers without the need for accessories.

Short Circuit Protection

Multi-pole breakers safeguard your equipment, the UPS system and your electrical infrastructure against potential damage due to input or output short circuits and system overloads.

Hardwire, 3-Phase (4-wire, wye) Output

Connects the power module directly to your equipment or a PDU (power distribution unit).

Hardwire, 3-Phase (4-wire, wye) Input

Connects the power module directly to the 3-phase utility power source.

Accessory Card Slot

Accepts optional internal SNMPWEBCARD or RELAYIOCARD. SNMPWEBCARD provides a network interface for monitoring and control via SNMP, Web, SSH or telnet, enabling remote reboots, shutdowns and more. Use with optional ENVIROSENSE to monitor temperature and humidity. RELAYIOCARD provides a programmable contact closure interface.

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Capacity</th>
<th>Typical Runtime</th>
<th>Included Internal Battery Strings</th>
<th>Optional Internal Battery Strings</th>
<th>Additional Capacity for Optional Internal Battery Strings</th>
<th>Input/Output Voltage (Hardwired)</th>
<th>Input Voltage Range (Frequency 60Hz)</th>
<th>Communication Ports</th>
<th>Contact Closure</th>
<th>AS-400 (DB9)</th>
<th>Accessory Card Slot</th>
</tr>
</thead>
<tbody>
<tr>
<td>SU20K3/3</td>
<td>20kVA/16kW</td>
<td>13/5+ min.</td>
<td>2</td>
<td></td>
<td></td>
<td>120/208VAC</td>
<td>96-144/166-250VAC</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>SU20K3/3XR5</td>
<td>20kVA/16kW</td>
<td>42/17+ min.</td>
<td>5</td>
<td></td>
<td></td>
<td>120/208VAC</td>
<td>96-144/166-250VAC</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>SU30K3/3</td>
<td>30kVA/24kW</td>
<td>13/5+ min.</td>
<td>3</td>
<td></td>
<td></td>
<td>120/208VAC</td>
<td>96-144/166-250VAC</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>SU30K3/3XR5</td>
<td>30kVA/24kW</td>
<td>25/11+ min.</td>
<td>5</td>
<td></td>
<td></td>
<td>120/208VAC</td>
<td>96-144/166-250VAC</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Internal Battery Pack and Accessories

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SURBC2030</td>
<td>240V internal battery string (for all models).</td>
</tr>
<tr>
<td>SU20KMBPK</td>
<td>External maintenance bypass panel (for 20kVA models only). Wall-mount. Three 70A breakers. Kirk Key interlock system prevents sequence of operation errors.</td>
</tr>
<tr>
<td>SU30KMBPK</td>
<td>External maintenance bypass panel (for 30kVA models only). Wall-mount. Three 100A breakers. Kirk Key interlock system prevents sequence of operation errors.</td>
</tr>
<tr>
<td>SNMPWEBCARD</td>
<td>Adds Ethernet (RJ45) network interface to UPS for remote monitoring and control via SNMP, Web, SSH or telnet.</td>
</tr>
<tr>
<td>ENVIROSENSE</td>
<td>Connects to SNMPWEBCARD for remote temperature and humidity monitoring. Also monitors contact-closure devices.</td>
</tr>
<tr>
<td>RELAYIOCARD</td>
<td>Adds programmable contact-closure interface to compatible UPS systems. Includes six outputs and one input.</td>
</tr>
</tbody>
</table>

LD: LCD model
LD+: LCD model with hot-swap capability
LD++: LCD model with expandable runtime

(A) Runtime varies with load, battery condition and other factors. Runtimes for all models are expandable using additional internal battery strings and/or external battery cabinets.

Visit www.tripplite.com/3phase for the latest specifications, including weights and dimensions.
PowerAlert Software

Monitors and Controls Hundreds of UPS Systems, PDUs or Cooling Systems, plus ENVIROSENSE® Modules

Software-Only Solution Requires No Additional Hardware or Licenses

Available FREE—Included CD or Download

PowerAlert software monitors and controls power for hundreds of UPS systems, PDUs or cooling systems and the equipment they support. Since PowerAlert is a FREE, software-only solution, it saves network managers significant costs compared to competitive solutions that require additional hardware or license purchases.*

Using JAVA® and SNMP standards, PowerAlert simplifies power management for every network—from a single server to a global enterprise. PowerAlert allows managers to centrally monitor every UPS, PDU and cooling system on their network. In addition, PowerAlert allows users to set parameters for graceful, automatic file saves and system shut down in the event of an extended blackout.

* FREE PowerAlert CD included with select models. FREE download available at www.tripplite.com/pa.

Reduced Deployment Time

• Mass Configuration of Devices
  PowerAlert saves time and money by allowing managers to mass configure multiple remote device settings from a single location.

• Device Auto-Discovery
  Managers can set PowerAlert to auto-discover devices in specific network segments or IP address ranges.

Reduced Troubleshooting Time

• Alarm Log
  PowerAlert speeds up alarm resolution by pooling all network alarms into a single, sortable easy-to-read list. Alarm entries feature intuitive color coding, including white (normal), yellow (warning) and red (critical).

• “Recommended Action” Messaging
  PowerAlert takes the guesswork out of how to respond to alarms. When managers select a device from the Network Management Screen, the device’s real-time power status is displayed along with the alarm’s “cause” and recommended “response.”

Simplifies Network Power Management

• SNMP Control
  Any UPS connected to PowerAlert via a USB or serial cable can now be monitored via SNMP—without an internal SNMPWEBCARD and its additional IP address. PowerAlert’s built-in SNMP agent can make even a basic desktop UPS a monitored device on your network, visible to PowerAlert NMS or any third-party NMS.

• Alarm Notification
  PowerAlert keeps managers continuously apprised of conditions through emails and SNMP traps, enabling them to proactively manage problems before they affect productivity.

• Individual Outlet Control
  PowerAlert allows managers to reboot locked devices or preserve runtime for critical equipment by remotely controlling the outlet power of UPS and power distribution units that offer control capability. Select UPS and PDU devices can also be configured to perform custom, sequential startup and shutdown sequences.

• Redundant UPS System Management
  PowerAlert is smart enough to manage multiple UPS systems connected to a single load. For example, when two UPS systems are connected to support two power supplies on a server, PowerAlert is typically configured to gracefully shut down the server only after battery power is exhausted on both UPS systems.

• Network Shutdown Commands
  When a UPS communicates with PowerAlert software or via internal SNMPWEBCARD, other computers on the network may also be dependent on the condition of the UPS. Any networked computers with PowerAlert Network Shutdown Agent can detect an outage and automatically shut down before UPS battery power is exhausted. PowerAlert can also execute custom scripts upon any alarm condition.

• Convenient Web-Browser Access
  When the internal SNMPWEBCARD is used, network managers can access its management interface from any networked computer via a secure, password-protected browser session (HTTP or HTTPS).
PowerAlert’s Power-Management Architecture

**Centralized Power Management**

- **Economy Mode Control**
  Manage the energy-saving economy mode settings of SmartOnline UPS Systems in real time, or define a schedule to switch between economy mode and full-time double conversion automatically.

- **SNMP Power Management**

- **Local Power Management**

- **NMS Management**
  Managers can choose to access PowerAlert through a third-party network management system (NMS).

**Real-Time Power Status Screens**
Managers can view power events in real time, responding to power problems before they affect network performance.

Visit [www.tripplite.com/pa](http://www.tripplite.com/pa) for the latest PowerAlert downloads and updates.
OmniSmart, Digital, Smart USB, OmniVS and AVR Series

Line-Interactive Tower and Low-Profile UPS Systems

Protect Every Application

OmniSmart, Digital, Smart USB, OmniVS and AVR Series UPS Systems are available in a wide variety of capacities to protect every size computer application from downtime, damage and data loss due to power problems. These UPS systems provide protection against all types of power problems, including brownouts, blackouts, surges and line noise. Line-interactive operation—also known as automatic voltage regulation (AVR)—keeps equipment working through low voltage (brownouts) indefinitely, without draining battery power. OmniSmart, Digital, Smart USB, OmniVS and AVR Series UPS Systems provide reliable battery power to keep computers up and running through short blackouts and allow enough time to safely shut down during longer ones.

Digital UPS Systems include an LCD status screen that shows power conditions in real time. Monitor input voltage, battery charge level, load status and other power conditions at a glance.

Protect Systems On Telephone, Ethernet or Coaxial Lines

Select UPS systems include surge-protected jacks that safeguard equipment against damaging surges traveling on the telephone, Ethernet or coaxial lines. In addition to protecting equipment against surges, reliable battery backup power maintains Internet, network or coaxial connections during brief blackouts.

Automatically Shut Down Unattended Systems

All models feature at least one built-in communication port. Use with included cabling and PowerAlert software (available as a FREE download) to automatically save open files and shut down unattended equipment during an extended blackout. PowerAlert software waits for a user-specified length of time (during which on-screen notifications are displayed) before saving data and shutting down connected equipment. SMART550USBWD model also includes WatchDog monitoring/rebooting software to automatically reboot locked-up equipment—perfect for kiosk, point-of-sale or other unattended applications.

Go to www.tripplite.com/runtime for interactive battery backup runtime charts for every UPS model.
Feature Focus

A Data Line Surge Protection
Protect computers from damage on the telephone, Ethernet or coaxial line with surge-protected jacks on select models.

B Automatic Data Protection
At least one built-in communication port connects all models to a PC or workstation. Use with FREE PowerAlert software* and included cabling to automatically save open files and shut down equipment during an extended blackout.

* FREE download.

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Specifications

### Digital UPS Systems

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Capacity</th>
<th>Typical Runtime</th>
<th>Extended Runtime</th>
<th>AC Outlet Quantity (5-15R)</th>
<th>Comm. Ports</th>
<th>Data Line Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMNIS1500</td>
<td>1500VA/900W</td>
<td>13+ min.</td>
<td>10 (5 surge-only) USB</td>
<td>8 (3 surge-only) USB</td>
<td>1 (Network)</td>
<td>120V/60Hz input/output and 5-15P input plug.</td>
</tr>
<tr>
<td>OMNIS2000</td>
<td>2000VA/1130W</td>
<td>16+ min.</td>
<td>10 (6 surge-only) USB</td>
<td>10 (4 surge-only) USB</td>
<td>1 (Network)</td>
<td>24V external battery pack and cable. Tower or 3U rack. Expandable. Small RED/BLACK connector.</td>
</tr>
</tbody>
</table>

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Visit www.tripplite.com/avr for the latest specifications, including weights and dimensions.
ECO-UPS, Internet Office, BC Pro and BC Personal
Standby Tower and Low-Profile UPS Systems

Protect Every Application
Designed for desktop applications, ECO-UPS, Internet Office, BC Pro and BC Personal UPS Systems are available in a wide variety of capacities to protect every size computer from downtime, damage and data loss due to power problems. They provide protection against all types of power problems, including brownouts, blackouts, surges and line noise. They provide reliable battery power to keep computers up and running through short blackouts and brownouts, allowing enough time to save data and shut down during longer ones.

Protect Internet-Connected & Networked Systems
Computers connected to the Internet or Ethernet require additional protection against damaging surges traveling on phone or network lines. Select models include surge-protected jacks which safeguard modems and other communication hardware.

Protect the Planet & Save Money
ECO-UPS Systems use less electricity than conventional models, reducing your costs and your environmental impact:
- Green Outlet™ technology automatically cuts power to idle peripherals when your computer is turned off or in standby mode.*
- Superior power efficiency (up to 99%) conserves energy around the clock.
- Eco-friendly design and recyclable materials minimize hazardous substances and waste.
* USB connection required.

Automatically Shut Down Unattended Systems
Most models feature a built-in communication port. Use with included cabling and PowerAlert software (available as a FREE download) to automatically save open files and shut down unattended equipment during an extended blackout. PowerAlert software waits for a user-specified length of time (during which on-screen notifications are displayed) before safely shutting down connected equipment.
A. **Data Line Surge Protection**

Protect Internet-connected or networked PCs from damage on the Ethernet and/or telephone line with surge-protected jacks featured on select models.

B. **Automatic Data Protection**

Built-in communication port connects select models to a PC or workstation. Use with FREE PowerAlert software* and included cabling to automatically save open files and shut down equipment during an extended blackout.

C. **Battery-Supported and Surge-Protected Outlets**

All models include outlets that provide reliable battery support for PCs and monitors during a blackout as well as surge suppression and line noise filtering.

D. **Surge-Only Protected Outlets**

Select models include outlets that provide surge suppression and line noise filtering for printers and peripherals. These outlets allow you to connect and protect peripherals without overloading the UPS system and diverting precious battery support.

E. **Battery Replacement Panel**

Tripp Lite UPS batteries will protect equipment for several years with normal use. Select models feature a removable panel which allows battery replacement.*

F. **Wide-Spaced Outlets**

Select models feature outlets that accept multiple transformers without blocking access to other outlets.

G. **Space-Saving Cabinets**

All models feature space-saving cabinets. Select models feature low-profile cabinets.

H. **Performance Conditions Displayed**

Most models feature LEDs to alert you to potential power problems before they affect your equipment. ECO650LCD and ECO850LCD feature an LCD status screen.

I. **Green Outlet Technology**

ECO-UPS Systems include special energy-saving outlets. The UPS system automatically cuts power to the energy-saving outlets when it detects that your computer is turned off or in standby mode. (USB connection required.)

### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Capacity</th>
<th>Typical Runtime (Half Load)</th>
<th>AC Outlet Quantity</th>
<th>Comm. Ports</th>
<th>Data Line</th>
<th>Form Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INTERNETOFFICE500</strong></td>
<td>500VA/280W</td>
<td>14.8 min.</td>
<td>6 (3 surge-only)</td>
<td>USB Tel/Network</td>
<td>Low-Profile</td>
<td></td>
</tr>
<tr>
<td><strong>INTERNET300U</strong></td>
<td>300VA/150W</td>
<td>10 min.</td>
<td>6 (3 surge-only)</td>
<td>USB Tel/Modem</td>
<td>Low-Profile</td>
<td></td>
</tr>
<tr>
<td><strong>INTERNET550U</strong></td>
<td>550VA/300W</td>
<td>12.4 min.</td>
<td>6 (3 surge-only)</td>
<td>USB Tel/Modem</td>
<td>Low-Profile</td>
<td></td>
</tr>
<tr>
<td><strong>INTERNETOFFICE300</strong></td>
<td>300VA/150W</td>
<td>10 min.</td>
<td>6 (3 surge-only)</td>
<td>USB Tel/Network</td>
<td>Low-Profile</td>
<td></td>
</tr>
<tr>
<td><strong>INTERNET550SER</strong></td>
<td>550VA/300W</td>
<td>10 min.</td>
<td>6 (3 surge-only)</td>
<td>USB Tel/Modem</td>
<td>Low-Profile</td>
<td></td>
</tr>
<tr>
<td><strong>INTERNET750U</strong></td>
<td>750VA/450W</td>
<td>14 min.</td>
<td>12 (6 surge-only)</td>
<td>USB Tel/Modem</td>
<td>Low-Profile</td>
<td></td>
</tr>
</tbody>
</table>

Visit www.tripplite.com/standby for the latest specifications, including weights and dimensions.
Tripp Lite Manufactures More Than 2,500 Vendor-Neutral IT Infrastructure Solutions!

Rack & Cooling Solutions
Tripp Lite makes more than 100 EIA-compliant rack enclosures, open frame racks, wall-mount racks, close-coupled cooling solutions and rack accessories.

Power Distribution Units (PDUs)
Tripp Lite makes more than 100 basic, metered, monitored and switched rack PDUs in horizontal (1U/2U) and vertical (0U) form factors.

KVM/Console Solutions
Tripp Lite makes more than 50 KVM switches, rack consoles and IP console servers, with or without built-in remote access (KVM over IP), built-in LCD monitor, multiuser support and Cat5/UTP cabling.

Cables and Connectivity
Tripp Lite makes hundreds of cables, adapters and patch panels to connect high-speed data networks and power outlets to switches, routers and servers in high-density environments.

Working on an IT infrastructure expansion or upgrade? Visit www.tripplite.com/integrate for help from our experienced project engineers!