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## Model #: SMART500RT1U

### SmartPro Rack/Tower UPS - Intelligent, line interactive network power management system

#### Highlights

- 500VA line interactive 1U rack/tower UPS
- 6 outlets with 1 switchable load bank
- Simultaneous communications via SNMPWEBCARD slot, USB and DB9 serial ports
- Included PowerAlert UPS monitoring software manages an unlimited number of network UPS systems
- Built-in voltage regulation corrects brownouts to 90V
- \$250,000 [Ultimate Lifetime Insurance](#) (USA, Puerto Rico & Canada only)



#### Description

Tripp Lite's SMART500RT1U intelligent, line interactive rack/tower uninterruptible power supply prevents data loss, downtime and equipment damage due to power outages, voltage fluctuations and transient surges. Requires only one rack space (1U) in a 2 or 4 post rack, with included accessories for upright tower placement. Large internal batteries offer 8 minutes half load runtime and 3 minutes at full load. Maintains regulated 120V nominal output without using battery power during brownouts as low as 90V. 500VA/300 watt power handling capability is compatible with networking, telecom and other sensitive electronic applications. Includes 6 UPS supported outlets with a single outlet load bank that can be individually controlled via software interface to reboot select equipment on demand or shed less significant loads to extend battery runtime for more critical equipment. Includes 1 surge-only outlet for peripherals not requiring battery backup. Supports simultaneous remote monitoring of UPS and site power conditions via built-in USB and DB9 monitoring ports. Includes PowerAlert UPS monitoring and unattended shutdown software with complete cabling. Built-in accessory slot supports SNMP with optional SNMPWEBCARD adapter. Emergency Power Off (EPO) interface offers option for instantaneous power-off of UPS and connected equipment in the case of fire or emergency situation. Multi-function audible alarms and set of 5 front panel LEDs offer at-a-glance notification of UPS and line power status. Network-grade AC surge suppression protects equipment from damage and performance problems resulting from transient surges and line noise. Attractive all-black color scheme. Two year warranty with \$250,000 [connected equipment insurance](#) (USA & Canada only).

#### Package Includes

- SMART 500RT1U UPS System
- Mounting hardware
- Cabling for USB & DB9 monitoring and EPO switching
- PowerAlert unattended shutdown and UPS/Power monitoring software
- Warranty information and instruction manual

#### Features

- SMART500RT1U line interactive UPS offers battery derived sine wave AC output during power outages, voltage regulation during brownouts, plus network-grade AC surge suppression
- 500VA/300 watt power handling capability compatible with networking, telecom and other sensitive electronic devices
- Supports 1U rackmount installation in 2 or 4 post rack enclosures, upright tower placement also supported - mounting accessories included
- Large internal batteries offer runtimes of 17 minutes at half load (250VA/150 watts) and 5 minutes at full load (500VA/300 watts)
- Maintains regulated 120V nominal output during brownouts as low as 90V

- Includes 6 UPS-supported outlets, with one pair of individually controllable outlets that can be powered off and back on again via software interface
- PowerAlert UPS monitoring and unattended shutdown software enables configurable network broadcast messaging, pager & email notification, event logging and running user-defined script commands
- Offers simultaneous monitoring by up to 3 directly-connected devices through included USB, DB9 and SNMP\* interfaces (\*requires optional SNMPWEBCARD), or the monitoring of any number of additional UPS systems over IP with included PowerAlert monitoring software. Free PowerAlert enterprise management software is also available for select opportunities
- Communications ports support messaging of UPS and line power status, including on-battery, low-battery, power restored, AC line voltage, DC battery voltage and remaining battery capacity
- Supports timed inverter shutoff after unattended shutdown, activate self-test and UPS output power control for scheduled or immediate reboot of connected devices
- Supports Tripp Lite's WatchDog software application to restore unresponsive programs by systematically restarting applications, operating systems and ultimately rebooting completely locked computers by momentarily switching UPS power off and back on again (requires optional WATCHDOGSW)
- Built-in accessory slot supports SNMP with optional SNMPWEBCARD adapter
- Emergency Power Off (EPO) interface with cable
- Multi-function audible alarms and set of 5 front panel LEDs
- Network-grade AC surge suppression
- Attractive all-black color scheme
- UPS battery set ships fully assembled and ready for installation, no time consuming connection of internal batteries by user is necessary
- Two year warranty with \$250,000 [connected equipment insurance](#) (USA & Canada only)

## Specifications

| OUTPUT                                    |  |
|---|--|
| Output Volt Amp Capacity (VA)             | 500  |
| Output Watt Capacity (watts)              | 300  |
| Output power factor                       | 0.6  |
| Nominal Output Voltage(s) Supported       | 120v   |
| Frequency compatibility                   | 60 Hz  |
| Output voltage regulation (line mode)     | -15%, +13%   |
| Output voltage regulation (Battery mode)  | +/- 5%   |
| Built-in UPS output receptacles           | 7 5-15R outlet(s)  |
| Surge suppression only outlets            | 6 UPS outlets, 1 surge-only outlet   |
| Built-in controllable switched load banks | One switchable single-outlet 5-15R load bank   |
| Basic PDU options                         | PDU1215 (1U / 13 5-15R outlets); PDUNV (1U / 2 C19, 12 C13 outlets); PDU1415 (0U / 14 5-15R outlets); PDUV15 (0U / 12 5-15R outlets) |
| Metered PDU options                       | PDUMH15 (1U / 13 5-15R outlets); PDUMH15AT (1U / 8 5-15R outlets)*; PDUMV15 (0U / 16 5-15R outlets)                                  |
| Switched PDU options                      | PDUMH15ATNET (1U / 8 5-15R outlets)*; PDUMV15NET (0U / 16 5-15R outlets)   |
| External PDU redundancy options           | *Auto Transfer Switch features utilizing the secondary PDU input cord are compatible with Smart Online UPS models only               |
| Output AC waveform (AC mode)              | Sine wave  |

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| Output AC waveform (battery mode)                                | PWM sine wave   |
| <b>INPUT</b>   |   |
| Rated input current (at maximum load)                            | 5.6A  |
| Nominal Input Voltage(s) Supported                               | 120V AC   |
| UPS input connection type  | 5-15P   |
| Input circuit breaker  | 15A   |
| UPS Input cord length (ft.)                                      | 10  |
| UPS Input cord length (m)  | 4.5   |
| Recommended Electrical Service                                   | 15A 120V  |
| <b>BATTERY</b>   |   |
| Full load runtime (minutes)                                      | 3 min. (300w)   |
| Half load runtime (minutes)                                      | 8 min. (150w)   |
| DC system voltage  | 12V DC  |
| Battery recharge rate (included batteries)                       | Less than 4 hours from 10% to 90%   |
| Replacement battery cartridge (internal UPS battery replacement) | RBC62-1U  |
| Battery Access   | Battery access door   |
| Battery replacement description                                  | Hot-swappable, user replaceable batteries   |
| <b>VOLTAGE REGULATION</b>  |   |
| Voltage regulation description                                   | Automatic voltage regulation (AVR) maintains line power operation with input voltage as low as 90                             |
| Undervoltage correction  | Input voltages between 90 and 108 are boosted by 14%  |
| <b>LEDS ALARMS &amp; SWITCHES</b>                                |   |
| LED Indicators   | 5 LEDs indicate line power, battery power, overload, voltage regulation and battery low/replace status                        |
| Alarms   | Audible alarm indicates power-failure, overload and low-battery conditions  |
| Alarm cancel operation   | Power-fail alarm can be silenced using alarm-cancel switch; once silenced, alarm will re-sound to indicate low-battery status |
| Switches   | 2 Switches control off/on power status and alarm-cancel/self-test operation   |
| <b>SURGE / NOISE SUPPRESSION</b>                                 |   |
| UPS AC suppression joule rating                                  | 510 joules  |
| EMI / RFI AC noise suppression                                   | Yes   |

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| AC suppression joule rating  | 510  |
| AC suppression response time   | Instantaneous  |
| <b>PHYSICAL</b>  |  |
| Installation form factors supported with included accessories                          | 4 post 19 inch rackmount (mounting kit included); 2 post 19 inch rackmount (mounting kit included) |
| Primary form factor  | Rackmount  |
| UPS / Power Module dimensions in primary form factor (height x width x depth / inches) | 1.7 x 17.5 x 11.8  |
| UPS / Power Module dimensions in primary form factor (height x width x depth / cm)     | 4.4 x 44.4 x 29.8  |
| Installed whole system total rack space height (rack spaces)                           | 1U   |
| UPS / Power Module weight (lbs)  | 17.6   |
| UPS / Power Module weight (kg)   | 8  |
| UPS Shipping dimensions (height x width x depth / inches)                              | 5 x 22.5 x 16  |
| UPS Shipping dimensions (height x width x depth / cm)                                  | 12.7 x 57.2 x 40.6   |
| Shipping weight (lbs)  | 19.9   |
| Shipping weight (kg)   | 9  |
| UPS housing material   | Steel  |
| <b>ENVIRONMENTAL</b>   |  |
| Operating Temperature Range  | +32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius  |
| Storage Temperature Range  | +5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius   |
| Relative Humidity  | 0 to 95%, non-condensing   |
| AC mode BTU / hr. (full load)  | 65.1   |
| Battery mode BTU / hr. (full load)   | 287.7  |
| <b>COMMUNICATIONS</b>  |  |
| Communications interface   | USB; DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface                            |
| Network monitoring port description  | Supports detailed monitoring of UPS and site power conditions                                      |

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| <b>PowerAlert software</b>  | Included   |
| <b>Communications cable</b>   | USB and DB9 cabling included   |
| <b>WatchDog compatibility</b>   | Supports Watchdog application, OS and hard-reboot restart options for remote applications  |
| <b>LINE / BATTERY TRANSFER</b>  |  |
| <b>Transfer time</b>  | 2-4 milliseconds   |
| <b>Low voltage transfer to battery power (setpoint)</b>               | 90   |
| <b>High voltage transfer to battery power (setpoint)</b>              | 136  |
| <b>SPECIAL FEATURES</b>   |  |
| <b>Grounding lug</b>  | Back panel grounding lug   |
| <b>Cold Start (startup in battery mode during a power failure)</b>    | Cold-start operation supported   |
| <b>High availability UPS features</b>                                 | Hot swappable batteries  |
| <b>Green &amp; high efficiency features</b>                           | Individually controllable load banks   |
| <b>CERTIFICATIONS</b>   |  |
| <b>UPS Certifications</b>   | Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category B (EMI); ROHS (Reduction of Hazardous Substances) |
| <b>WARRANTY</b>   |  |
| <b>Product Warranty Period (U.S., Canada &amp; Puerto Rico)</b>       | 2 years  |
| <b>Connected Equipment Insurance (U.S., Canada &amp; Puerto Rico)</b> | \$250,000 connected equipment insurance  |

## Related Items

### Optional Products

| Product Type         | Related Model                  | Description   | Qty. |
|----------------------|--------------------------------|---|------|
| Extended Warranties  | <a href="#">WEXT3-500-1500</a> | 3-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 1500VA or less     | -    |
| Extended Warranties  | <a href="#">WEXT5-500-1500</a> | 5-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 1500VA or less     | -    |
| Power Distribution   | <a href="#">PDU1215</a>        | Basic PDU / Power Distribution Unit - Safe, reliable power distribution for critical networking equipment | -    |
| Power Distribution   | <a href="#">PS7224</a>         | Tripp Lite Power Strip - Multiple outlets wherever you need them  | -    |
| SNMP Accessories     | <a href="#">SNMPWEBCARD</a>    | For remote monitoring and control via SNMP, Web, or Telnet.   | -    |
| SNMP Accessories     | <a href="#">ENVIROSENSE</a>    | Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.)        | -    |
| USB Hubs/Accessories | <a href="#">U022-010</a>       | 10-ft. USB2.0 A/B Gold Device Cable (A Male to B Male)  | -    |
| Software             | <a href="#">WATCHDOGSW</a>     | WatchDog Service Monitoring / Reboot Software   | -    |
| Audio Cables         | <a href="#">CT120</a>          | Instant-Read- AC Outlet Circuit Tester  | -    |

|                  |                       |  |   |
|------------------|-----------------------|--|---|
| Surge Protectors | <a href="#">DNET1</a> | Network Surge Suppressor - Essential protection for data and communication lines | - |
| Rack Accessories |                       |  | - |
| Surge Protectors | <a href="#">DTEL2</a> | Network Surge Suppressor - Essential protection for data and communication lines | - |
| Surge Protectors | <a href="#">DCATV</a> | Network Surge Suppressor - Essential protection for TV/VCR coaxial lines         | - |

More information, including related products, owner's manuals, and additional technical specifications, can be found online at [www.tripplite.com/en/products/model.cfm?txtModelID=2853](http://www.tripplite.com/en/products/model.cfm?txtModelID=2853).