# Model #: SMART500RT1U

## SmartPro .5kVA Line Interactive UPS, SNMPWEBCARD option, 1U Rack/Tower, USB, Serial, EPO, 120V

### Highlights

- 500VA line interactive 1U rack/tower UPS
- 120V nominal output during brownouts as low as 90V
- USB, RS232, EPO and optional SNMP/Web card are available for simultaneous use
- Front panel status LEDs; 1 switched output load bank
- NEMA 5-15P input; 7 NEMA 5-15R outlets

## 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 14.6 minutes half load runtime and 3.2 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.

Package Includes

- SMART500RT1U UPS System
- Mounting hardware
- Cabling for USB & DB9 monitoring and EPO switching
- PowerAlert unattended shutdown and UPS/Power monitoring software
- Instruction manual

## Features

- Tripp Lite SMART500RT1U .5 kVA / 500VA / 300 watt line interactive UPS
- 1U rack / tower compatible form factor
- NEMA 5-15P input connection; 7 NEMA 5-15R output receptacles
- Installed depth of only 11.8 in / 29.8 cm
- Large internal batteries offer runtimes of 14.6 minutes at half load (250VA/150 watts) and 3.2 minutes at full load (500VA/300 watts)
- Maintains regulated 120V nominal output during brownouts as low as 90V
- Includes 6 UPS-supported outlets and 1 surge-only outlet
- One of the UPS supported outlets is switched for remote load shedding or rebooting of an individual device
- PowerAlert UPS monitoring software enables detailed site power and UPS status updates with support for unattended shutdown of connected systems as UPS batteries become depleted
- Supports detailed monitoring of equipment load levels,self-test data, and utility power condition via built-in RS-232 and USB interfaces
- HID-compliant USB interface enables integration with built-in power management and auto-shutdown of windows and Mac OS X
- Optional SNMPWEBCARD offers communications and control via secure remote web and network interfaces
- Supports Tripp Lite's WatchDog software application to restore operation to locked equipment through soft reboot of application, OS or hard

power off/on reboot of connected equipment - ideal for unattended kiosk applications (requires optional WATCHDOGSW)

- Emergency Power Off (EPO) interface with cable
- Multi-function audible alarms and set of 5 front panel LEDs
- Network-grade AC surge suppression
- Field-replaceable, hot-swappable internal UPS batteries

## 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 | 6 5-15R outlet(s) |
| Surge suppression only outlets | 6 UPS outlets, 1 surge-only outlets |
| Built-in controllable switched load banks | One switchable single-outlet 5-15R load bank |
| Output AC waveform (AC mode) | Sine wave |
| Output AC waveform (battery mode) | PWM sine wave |
| **INPUT** | |
| 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 |
| **BATTERY** | |
| Full load runtime (minutes) | 3.2 min. (300w) |
| Half load runtime (minutes) | 14.6 min. (150w) |
| DC system voltage (VDC) | 12 |

| | |
|---|---|
| **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 |

**VOLTAGE REGULATION**

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|---|---|
| **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% |

**LEDS ALARMS & SWITCHES**

| | |
|---|---|
| **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 |

**SURGE / NOISE SUPPRESSION**

| | |
|---|---|
| **UPS AC suppression joule rating** | 567 joules |
| **EMI / RFI AC noise suppression** | Yes |
| **AC suppression joule rating** | 567 |
| **AC suppression response time** | Instantaneous |

**PHYSICAL**

| | |
|---|---|
| **Installation form factors supported with included accessories** | 4 post 19 inch rackmount (mounting rail kit included); 2 post 19 inch rackmount (mounting rail 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 |

## ENVIRONMENTAL

| 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 |

## COMMUNICATIONS

| Communications interface | USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface |
|---|---|
| Network monitoring port description | Supports detailed monitoring of UPS and site power conditions |
| PowerAlert software | Included |
| Communications cable | USB and DB9 cabling included |
| WatchDog compatibility | Supports Watchdog application, OS and hard-reboot restart options for remote applications |

## LINE / BATTERY TRANSFER

| Transfer time | 2-4 milliseconds |
|---|---|
| Low voltage transfer to battery power (setpoint) | 90 |
| High voltage transfer to battery power (setpoint) | 136 |

## SPECIAL FEATURES

| Grounding lug | Back panel grounding lug |
|---|---|
| Cold Start (startup in battery mode during a power failure) | Cold-start operation supported |
| High availability UPS features | Hot swappable batteries |
| Green & high efficiency features | Individually controllable load banks |

## CERTIFICATIONS

| UPS Certifications | Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category B (EMI) |
|---|---|

## WARRANTY

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|---|---|---|
| **Product Warranty Period (Worldwide)** | 2-year warranty, 3 year with registration. Note: registration is required for 3-year warranty. | |
| **Connected Equipment Insurance (U.S., Canada & Puerto Rico)** | $250,000 Ultimate Lifetime Insurance | |

## Related Items

**Optional Products**

| Related Model | Description | Qty. |
|---|---|---|
| CT120 | Instant-Read- AC Outlet Circuit Tester | 1 |
| DCATV | Network Surge Suppressor - Essential protection for TV/VCR coaxial lines | 1 |
| DNET1 | Network Surge Suppressor - Essential protection for data and communication lines | 1 |
| DTEL2 | Network Surge Suppressor - Essential protection for data and communication lines | 1 |
| ENVIROSENSE | Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.) | 1 |
| PDU1215 | Basic PDU / Power Distribution Unit - Safe, reliable power distribution for critical networking equipment | 1 |
| PS7224 | Tripp Lite Power Strip - Multiple outlets wherever you need them | 1 |
| SNMPWEBCARD | For remote monitoring and control via SNMP, Web, or Telnet. | 1 |
| U022-010 | 10-ft. USB2.0 A/B Gold Device Cable (A Male to B Male) | 1 |
| WATCHDOGSW | WatchDog Service Monitoring / Reboot Software | 1 |
| WEXT5-500-1500 | 5-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 1500VA or less | 1 |
| MODBUSCARD | For remote monitoring and control via MODBUS protocol | 1 |

More information, including related products, owner's manuals, and additional technical specifications, can be found online at

www.tripplite.com/en/products/model.cfm?variables.txtModelID=2853.