Tripp Lite
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# SmartPro 120V 500VA 300W Line-Interactive UPS, 1U Rack/Tower, Network Card Options, USB, DB9 Serial

MODEL NUMBER: **SMART500RT1U**





### Highlights

- 500VA line-interactive 1U rack/tower UPS
- 120V nominal output during brownouts as low as 90V
- USB, RS232, EPO and slot for Network Management Card options
- Front panel status LEDs; 1 switched output load bank
- NEMA 5-15P input; 7 NEMA 5-15R outlets

### Package Includes

- SMART500RT1U UPS System
- Mounting hardware
- USB, DB9 and EPO cabling
- Instruction manual

### 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. PowerAlert UPS monitoring and unattended shutdown software is available for free download. 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.

### 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)
- Intelligent battery management system extends battery life
- 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
- USB & Serial ports enable data-saving unattended shutdown when used with Tripp Lite's PowerAlert software, available via FREE download from www.tripplite.com/poweralert
- Supports detailed monitoring of equipment load levels,self-test data, and utility power condition via built-in RS-232 and USB interfaces
- Compatible with Tripp Lite UPS management card options TLNETCARD, WEBCARDLX and SNMPWEBCARD
- 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 |
| Nominal Output Voltage(s) Supported | 110V; 115V; 120V |
| Nominal Voltage Details | 120v nominal output in battery mode |
| Frequency Compatibility | 60 Hz |
| Output Voltage Regulation (Line Mode) | -15%, +13% |
| Output Voltage Regulation (Battery Mode) | +/- 5% |
| Output Receptacles | (6) 5-15R |

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|---|---|
| UPS Output Receptacles (Surge Suppression Only) | 6 UPS outlets, 1 surge-only outlet |
| Load Management Receptacles | 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 (Maximum Load) | 5.6A |
| Nominal Input Voltage(s) Supported | 120V AC |
| UPS Input Connection Type | 5-15P |
| Input Circuit Breakers | 15A |
| UPS Input Cord Length (ft.) | 10 |
| UPS Input Cord Length (m) | 3.0 |
| Recommended Electrical Service | 15A 120V |
| Input Phase | Single-Phase |
| **BATTERY** | |
| Full Load Runtime (min.) | 3.2 min. (300w) |
| Half Load Runtime (min.) | 14.6 min. (150w) |
| DC System Voltage (VDC) | 12 |
| Battery Recharge Rate (Included Batteries) | Less than 16 hours from 10% to 90% (typical, full load discharge) |
| Internal UPS Replacement Battery Cartridge | RBC62-1U |
| Battery Access | Battery access door |
| Battery Replacement Description | Hot-swappable, user replaceable batteries |
| Expandable Runtime | No |
| **VOLTAGE REGULATION** | |
| 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% |
| **USER INTERFACE, ALERTS & CONTROLS** | |
| Switches | 2 Switches control off/on power status and alarm-cancel/self-test operation |
| Alarm Cancel Operation | Power-fail alarm can be silenced using alarm-cancel switch; once silenced, alarm will re-sound to indicate low-battery status |
| Audible Alarm | Audible alarm indicates power-failure, overload and low-battery conditions |

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|---|---|
| LED Indicators | 5 LEDs indicate line power, battery power, overload, voltage regulation and battery low/replace status |
| **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** | |
| Included Mounting Accessory Description | Included mounting flanges support rackmount installation in 2 or 4 post racks |
| Primary Form Factor | Rackmount |
| UPS Power Module Dimensions (hwd, in.) | 1.73 x 17.32 x 11.26 |
| UPS Power Module Dimensions (hwd, cm) | 4.39 x 43.99 x 28.60 |
| Rack Height (U Spaces) | 1 |
| Minimum Required Rack Depth (inches) | 14.3 |
| Minimum Required Rack Depth (cm) | 36.32 |
| UPS Power Module Weight (lbs.) | 17.6 |
| UPS Power Module Weight (kg) | 7.98 |
| UPS Shipping Dimensions (hwd / in.) | 5 x 22.5 x 16 |
| UPS Shipping Dimensions (hwd / cm) | 12.70 x 57.15 x 40.64 |
| Shipping Weight (lbs.) | 19.9 |
| Shipping Weight (kg) | 9 |
| UPS Housing Material | Steel |
| Minimum Required Rack Depth (mm) | 363 |
| Primary UPS Height (mm) | 44 |
| Primary UPS Width (mm) | 440 |
| Primary UPS Depth (mm) | 286 |
| Shipping Height (mm) | 127 |
| Shipping Width (mm) | 572 |
| Shipping Depth (mm) | 406 |
| **ENVIRONMENTAL** | |

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| 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) | 44 |
| Battery Mode BTU / Hr. (Full Load) | 360 |
| AC Mode Efficiency Rating (100% Load) | 94% |
| **COMMUNICATIONS** | |
| Communications Interface | USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface |
| Network Management Cards | SNMPWEBCARD; TLNETCARD; WEBCARDLX |
| Network Monitoring Port Description | Supports detailed monitoring of UPS and site power conditions |
| PowerAlert Software | For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert |
| Communications Cable | USB and DB9 cabling included |
| WatchDog Compatibility | Supports Watchdog application, OS and hard-reboot restart options for remote applications |
| Network UPS Tools Compatibility | NUT compatible. See full list of compatible Tripp Lite products at http://www.networkupstools.org/stable-hcl.html?manufacturer=Tripp Lite |
| **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 |
| **CERTIFICATIONS** | |
| UPS Certifications | Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category B (EMI) |
| **WARRANTY** | |
| 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 |

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