

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

MODEL NUMBER: **SMART500RT1U**



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 Network Management Card options, such as Tripp Lite's [SNMPWEBCARD](#) network interface. 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

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

- 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
- Optional Network Management Card options, such as Tripp Lite's [SNMPWEBCARD](#) network interface
- 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
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)	4.5

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
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)	4.4 x 44.0 x 28.6
Rack Height (U Spaces)	1
Minimum Required Rack Depth (inches)	14.3
Minimum Required Rack Depth (cm)	36.2
UPS Power Module Weight (lbs.)	17.6
UPS Power Module Weight (kg)	8
UPS Shipping Dimensions (hwd / in.)	5 x 22.5 x 16
UPS Shipping Dimensions (hwd / 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
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 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
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
Green Energy-Saving 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)
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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