500VA 300W 120V Line-Interactive UPS - 6 NEMA 5-15R Outlets, USB, DB9, Network Card Option, 1U Rack/Tower

MODEL NUMBER: **SMART500RT1U**







1U rack-mount UPS offers complete power protection for small network applications, including telecom, security and digital signage.

Features

500VA/300W/120V Battery Backup for PC Networks, Security Systems or Digital Signage
The SmartPro® line-interactive SMART500RT1U UPS system with AVR protection provides reliable battery backup and AC power protection against blackouts, brownouts, surges and line noise that can damage valuable electronics or destroy data. The 120V battery backup is ideal protection for point-of-sale and kiosk applications, a small business VoIP network, or rack-mount equipment in your server room or network closet.

Allows Time to Back Up Critical Files During a Blackout
Backup support allows you to work through short power failures and gives you enough time to safely save files and shut down your system in case of a prolonged blackout. Backup time varies according to load, but the line-interactive UPS system should keep a half load (150W) powered as long as 14 minutes and a full load (300W) up to three minutes.

6 NEMA Outlets Protect Your Connected Components
Six 5-15R outlets provide battery backup, 567 joules of network-grade surge protection and voltage regulation for your crucial components. Five outlets are UPS-supported, and one is surge-only to connect peripherals not requiring battery backup. One UPS-supported outlet is switchable, allowing you to power its connected device on and off remotely to reset or reboot it or to shed a less significant load to extend battery runtime for more critical equipment.

Automatic Voltage Regulation (AVR) Corrects Low-Voltage Conditions
AVR protects your equipment from incremental hardware damage, data loss and performance problems caused by brownouts. The SMART500RT1U maintains regulated 120V nominal output during brownouts as low as 90V, while keeping the battery fully charged and ready to take over in case of power failure. The fast-to-recharge internal batteries are field-replaceable and hot-swappable.

Optional WEBCARDLXE Network Interface Offers 24/7 Access
An accessory slot accommodates the optional Java-free HTML5-based WEBCARDLXE interface (sold separately), which enables full remote access for site power and UPS status monitoring, configuration, control and email notifications via secure web browser, SNMP, telnet or SSH. It supports 10/100 Mbps auto-sensing for optimal communication with an Ethernet network. Automated alerts help prevent accidental overloads, power loss and downtime.

Highlights

- Protects equipment against blackouts, brownouts, transient surges and line noise
- Keeps AC power running during blackouts to allow time for file saves and safe shutdown
- Maintains continuous 120V nominal output during brownouts as low as 90V
- 6 NEMA 5-15R outlets power and protect networking, telecom and other sensitive equipment
- Optional WEBCARDLXE network interface allows you 24/7 remote access from anywhere

Applications

- Deliver battery-derived AC output to connected equipment in a network closet or small business network
- Protect point-of-sale and VoIP networks against power surges and spikes
- Operate essential equipment during short-term power outages using battery backup power
- Shut down desktop PCs and other equipment without data loss during long-term power outages

Package Includes

- SMART500RT1U 500VA 300W 120V Line-Interactive UPS
- USB cable
- DB9 cable
- EPO cable
- Rack-mounting hardware
- Owner’s manual

Premium Protection from EMI/RFI Line Noise Helps Your Equipment Perform Better
This UPS system filters out disruptive electromagnetic and radio frequency interference that can inflict hardware damage or data loss. This EMI/RFI filtering also helps your connected components perform better and last longer.

Designed for High Efficiency to Help You Save Money and Protect the Environment
A 97% efficiency rating reduces BTU emissions, energy consumption and, ultimately, your energy costs.

LED Indicators and Audible Alarms Keep You Informed
Five front-panel LEDs keep you apprised of line power, battery power, overload, voltage regulation and battery low/replace status at a glance. A multi-function alarm sounds to warn you of power failure, overload and low-battery conditions.

Advanced Communications Ports Allow for Automatic Saves and Shutdowns
RS-232 and HID-compliant USB ports connect to a computer running free downloadable PowerAlert® software to enable safe unattended shutdown in case of a prolonged power failure. The EPO port supports emergency shutdown in large facilities. Cables are included.

Versatile Installation Options
Hardware is included for mounting the UPS in 1U of space in an EIA-standard 19-inch 2-port or 4-post rack or in an upright tower position. The 10-foot power cord with NEMA 5-15P plug connects to any compatible AC outlet.

Specifications

OVERVIEW	
UPC Code	037332119247
UPS Type	Line-Interactive
INPUT	
Input Phase	Single-Phase
Rated input current (Maximum Load)	10A
Nominal Input Voltage(s) Supported	120V AC
UPS Input Connection Type	5-15P
Input Circuit Breakers	10A
UPS Input Cord Length (ft.)	10
UPS Input Cord Length (m)	3.1
Recommended Electrical Service	15A 120V
Maximum Input Amps	10
OUTPUT	
Output Capacity (VA)	500
Output Capacity (kVA)	0.5
Output Capacity (Watts)	300
Output Capacity (kW)	0.3
Output Capacity Details	4.2A @ 120V. (LINE MODE) 120% @ 5 minutes; (BATTERY MODE) 120% @ 5 seconds

Power Factor	0.6
Nominal Voltage Details	120V sinusoidal in line mode and 120V PWM in battery mode
Frequency Compatibility	60 Hz
Frequency Compatibility Details	Output is regulated to +/-0.05Hz when input frequency exceeds +/-5Hz of nominal.
Output Voltage Regulation (Line Mode)	-14%, +16%
Output Voltage Regulation (Battery Mode)	+/- 5%
UPS Output Receptacles (Surge Suppression Only)	5 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
Nominal Output Voltage(s) Supported	120V
Output Receptacles	(6) 5-15R
Individually Controllable Load Banks	Yes
BATTERY	
Battery Type	Valve Regulated Lead Acid (VRLA)
Runtime Full Load (min.)	3 min. (300W)
Runtime Half Load (min.)	14 min. (150W)
Expandable Runtime	No
DC System Voltage (VDC)	12
Battery Recharge Rate (Included Batteries)	Less than 12 hours to 90%
Battery Access	Battery access door
Internal UPS Replacement Battery Cartridge	IMPORTANT BATTERY REPLACEMENT INFORMATION > Use Tripp Lite RBC12V-1U replacement battery for SMART500RT1U models with Series Number AG-03AA listed on the UPS nameplate (sold starting in 2021); For all prior versions of SMART500RT1U, use Tripp Lite RBC62-1U replacement battery; Contact Tripp Lite customer service for additional information
Battery Replacement Description	Hot-swappable, user replaceable batteries
VOLTAGE REGULATION	
Voltage Regulation Description	Automatic voltage regulation (AVR) maintains line power operation with input voltage as low as 90 (±5%). Input voltage range of 90 to 139
Undervoltage Correction	Input voltages between 90 and 105 (±5%) 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

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	
EMI / RFI AC Noise Suppression	Yes
AC Suppression Joule Rating	567
AC Suppression Response Time	Instantaneous
PHYSICAL	
Primary Form Factor	Rackmount; Tower
Rack Height	1U
Installation Form Factors Supported with Included Accessories	2 post 19 inch rackmount; 2 post front mount; 4 post 19 inch rackmount; Tower
Minimum Required Rack Depth (cm)	38.10
Minimum Required Rack Depth (inches)	15
Primary UPS Depth (mm)	286
Primary UPS Height (mm)	44
Primary UPS Width (mm)	440
Shipping Dimensions (hwd / in.)	4.20 x 15.70 x 21.30
Shipping Dimensions (hwd / cm)	10.67 x 39.88 x 54.10
Shipping Weight (lbs.)	21.25
Shipping Weight (kg)	9.64
UPS Housing Material	Steel
UPS Power Module Dimensions (hwd, cm)	4.39 x 43.99 x 28.60
UPS Power Module Dimensions (hwd, in.)	1.730 x 17.32 x 11.26
UPS Power Module Weight (kg)	7.18
UPS Power Module Weight (lbs.)	15.84
Unit Dimensions (hwd / in.)	1.730 x 17.320 x 11.260
Unit Weight (lbs.)	15.84
Unit Weight (kg)	7.17
Mounting Details	Included mounting brackets provide front-rail installation in 2 or 4 post racks, plus upright tower configurations
ENVIRONMENTAL	
Operating Temperature Range	32° to 104°F (0° to 40°C)
Storage Temperature Range	5° to 122°F (-15° to 50°C)
Relative Humidity	0-95% non-condensing

AC Mode BTU / Hr. (Full Load)	48
AC Mode Efficiency Rating (100% Load)	97%
AC Economy Mode Efficiency Rating (100% Load)	0.97
Operating Elevation	0-6562 ft. (0-2000 m)
Audible Noise	45 dBA maximum, front side 1m
COMMUNICATIONS	
Network Management Cards	WEBCARDLXE
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 software at https://tripplite.eaton.com/products/power-alert
Communications Cable	USB and DB9 cabling included
WatchDog Compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
Network Management Card Description	Network management card optional
Communications Interface	DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface; USB (HID enabled)
LINE / BATTERY TRANSFER	
Transfer Time	4-6 ms typical (< 10 ms max)
Low Voltage Transfer to Battery Power (Setpoint)	90
High Voltage Transfer to Battery Power (Setpoint)	139
FEATURES & SPECIFICATIONS	
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Automatic Voltage Regulation (AVR); Hot swappable batteries; Remote management; Surge/noise protection; Auto Probe Monitoring (requires WEBCARDLXE)
Grounding Details	Back panel grounding lug
APPLICATIONS	
UPS Applications	High-End Desktop/Small Network; Retail/Point of Sale; Hospitality
STANDARDS & COMPLIANCE	
Product Certifications	CSA (Canada); ICES (Canada); NOM (Mexico); UL 1778
Product Compliance	ENERGY STAR Qualified; FCC Part 15 Class B (USA); RoHS
WARRANTY & SUPPORT	

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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