

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 WEBCARDLX Network Interface Offers 24/7 Access

An accessory slot accommodates the optional Java-free HTML5-based WEBCARDLX 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

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 WEBCARDLX 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



accidental overloads, power loss and downtime.

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 Tripp Lite's 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-post 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 | |
| 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 |
| Input Phase | Single-Phase |
| OUTPUT | |
| Output Volt Amp Capacity (VA) | 500 |
| Output Watt Capacity (Watts) | 300 |
| Frequency Compatibility | 60 Hz |
| Output Voltage Regulation (Line Mode) | -14%, +16% |



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| 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) |
| Full Load Runtime (min.) | 3 min. (300w) |
| Half Load Runtime (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%) |
| 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 |



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| AC Suppression Response Time | Instantaneous |
| PHYSICAL | |
| Included Mounting Accessory Description | Included mounting brackets provide front-rail installation in 2 or 4 post racks, plus upright tower configurations |
| 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) | 36.32 |
| Minimum Required Rack Depth (inches) | 14.3 |
| Primary Form Factor | Rackmount |
| Primary UPS Depth (mm) | 286 |
| Primary UPS Height (mm) | 44 |
| Primary UPS Width (mm) | 440 |
| Rack Height | 1U |
| Shipping Dimensions (hwd / cm) | 10.67 x 39.88 x 54.10 |
| Shipping Dimensions (hwd / in.) | 4.20 x 15.70 x 21.30 |
| Shipping Weight (kg) | 8.67 |
| Shipping Weight (lbs.) | 19.12 |
| UPS Housing Material | Steel |
| UPS Power Module Dimensions (hwd, cm) | 4.39 x 43.99 x 28.60 |
| UPS Power Module Dimensions (hwd, in.) | 1.73 x 17.32 x 11.26 |
| UPS Power Module Weight (kg) | 7.18 |
| UPS Power Module Weight (lbs.) | 15.84 |
| 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) | 48 |
| AC Mode Efficiency Rating (100% Load) | 97% |
| Audible Noise | 45 dBA maximum, front side 1m |
| COMMUNICATIONS | |
| Network Management Cards | WEBCARDLX |
| Network Monitoring Port Description | Supports detailed monitoring of UPS and site power conditions |



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| PowerAlert Software | For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at https://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 |
| 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 |
| 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 | Auto Probe Monitoring and Reboot (requires WEBCARDLX); Automatic Voltage Regulation (AVR); Hot swappable batteries; Remote management; Surge/noise protection |
| STANDARDS & COMPLIANCE | |
| UPS Certifications | ENERGY STAR Qualified; Tested to CSA (Canada); Tested to NOM (Mexico); Tested to UL1778 (USA) |
| Certification Details | Series Number AG-03AA; Safety Standards (Canada) CAN/CSA-C22.2 No. 107.3-14 (3rd Ed); Safety Standards (U.S.) UL1778:2014 (5th Ed) R10.17; FCC/ICES Compliant CLASS A; 47 CFR FCC PART 15 SUBPART B; ICES-003:2016 |
| 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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