

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

MODEL NUMBER: **SMART500RT1UTAA**



### Description

This SMART500RT1UTAA intelligent line-interactive rack/vertical UPS system 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. 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/300W power handling capability is compatible with networking, telecom and other sensitive electronic applications. Includes six 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 one 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 via 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. Multi-function audible alarms and set of five 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

- Federal Trade Agreements Act / TAA compliant for GSA schedule purchases
- SMART500RT1UTAA .5 kVA / 500VA / 300 watt line interactive UPS
- 1U rack / vertical 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
- USB & Serial ports enable data-saving unattended shutdown when used with PowerAlert software, available via FREE download from [tripplite.eaton.com/products/power-alert](http://tripplite.eaton.com/products/power-alert)

### Highlights

- Federal Trade Agreements Act / TAA compliant for GSA schedule purchases
- 500VA line-interactive 1U rack/vertical 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
- To use the Auto Probe feature, this product requires a WEBCARDLX network interface (sold separately) running LX firmware update 15.5.2 or later

### Package Includes

- SMART500RT1UTAA UPS System
- Mounting hardware
- Cabling for USB & DB9 monitoring and EPO switching
- Instruction manual



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- Supports detailed monitoring of equipment load levels, self-test data, and utility power condition via built-in RS-232 and USB interfaces
- Compatible with UPS management card options TLNETCARD, WEBCARDLX and SNMPWEBCARD
- Supports 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

| OVERVIEW                                        |                                              |
|-------------------------------------------------|----------------------------------------------|
| UPC Code                                        | 037332204134                                 |
| UPS Type                                        | Line-Interactive                             |
| INPUT                                           |                                              |
| Input Phase                                     | Single-Phase                                 |
| 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)                       | 3.1                                          |
| Recommended Electrical Service                  | 15A 120V                                     |
| OUTPUT                                          |                                              |
| Output Capacity (VA)                            | 500                                          |
| Output Capacity (kVA)                           | 0.5                                          |
| Output Capacity (Watts)                         | 300                                          |
| Output Capacity (kW)                            | 0.3                                          |
| 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%                                       |
| UPS Output Receptacles (Surge Suppression Only) | 6 UPS outlets, 1 surge-only outlet           |
| Load Management Receptacles                     | One switchable single-outlet 5-15R load bank |



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|                                              |                                                                                                                                                                 |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output AC Waveform (AC Mode)                 | Sine wave                                                                                                                                                       |
| Output AC Waveform (Battery Mode)            | PWM sine wave                                                                                                                                                   |
| Nominal Output Voltage(s) Supported          | 110V; 115V; 120V                                                                                                                                                |
| Output Receptacles                           | (6) 5-15R                                                                                                                                                       |
| Individually Controllable Load Banks         | Yes                                                                                                                                                             |
| <b>BATTERY</b>                               |                                                                                                                                                                 |
| Battery Type                                 | Valve Regulated Lead Acid (VRLA)                                                                                                                                |
| Runtime Full Load (min.)                     | 3.2 min. (300W)                                                                                                                                                 |
| Runtime Half Load (min.)                     | 14.6 min. (150W)                                                                                                                                                |
| Expandable Runtime                           | No                                                                                                                                                              |
| DC System Voltage (VDC)                      | 12                                                                                                                                                              |
| Battery Recharge Rate (Included Batteries)   | Less than 4 hours from 10% to 90%                                                                                                                               |
| Battery Access                               | Battery access door                                                                                                                                             |
| Internal UPS Replacement Battery Cartridge   | &nbsp;<a class="productLink" href="//tripplite.eaton.com/1U-UPS-Replacement-12VDC-Battery-Cartridge-Select-Tripp-Lite-SmartPro-UPS-RBC62-1U">RBC62-1U</a>&nbsp; |
| Battery Replacement Description              | Hot-swappable, user replaceable batteries                                                                                                                       |
| <b>VOLTAGE REGULATION</b>                    |                                                                                                                                                                 |
| 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%                                                                                                            |
| <b>USER INTERFACE, ALERTS &amp; CONTROLS</b> |                                                                                                                                                                 |
| 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                                                          |
| <b>SURGE / NOISE SUPPRESSION</b>             |                                                                                                                                                                 |
| UPS AC Suppression Joule Rating              | 567                                                                                                                                                             |
| UPS Dataline Suppression                     | 1 line TEL/DSL (1 in / 1 out)                                                                                                                                   |
| EMI / RFI AC Noise Suppression               | Yes                                                                                                                                                             |
| AC Suppression Joule Rating                  | 567                                                                                                                                                             |
| AC Suppression Response Time                 | Instantaneous                                                                                                                                                   |
| <b>PHYSICAL</b>                              |                                                                                                                                                                 |
| Primary Form Factor                          | Rackmount; Vertical                                                                                                                                             |



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|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rack Height                                                   | 1U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Included Mounting Accessory Description                       | Included mounting brackets provide front-rail installation in 2 or 4 post racks                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Installation Form Factors Supported with Included Accessories | 2 post 19 inch rackmount; 2 post front mount; 4 post 19 inch rackmount                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Installation Form Factors Supported with Optional Accessories | Vertical Mount Enclosures ( <a href="//tripplite.eaton.com/SmartRack-5U-Low-Profile-Vertical-Mount-Server-Depth-Wall-Mount-Rack-Enclosure-Cabinet~SRWF5U36">SRWF5U36</a> ), <a href="//tripplite.eaton.com/SmartRack-5U-Low-Profile-Vertical-Mount-Switch-Depth-Wall-Mount-Rack-Enclosure-Cabinet~SRWF5U">SRWF5U</a> , <a href="//tripplite.eaton.com/SmartRack-5U-Low-Profile-Vertical-Mount-Switch-Depth-Wall-Mount-Structured-Wiring-Enclosure-Adjustable-Equipment-Brackets~SRWF10UMOD">SRWF10UMOD</a> ) |
| 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.)                               | 15.40 x 4.80 x 22.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Shipping Dimensions (hwd / cm)                                | 39.12 x 12.19 x 56.13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Shipping Weight (lbs.)                                        | 20.90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Shipping Weight (kg)                                          | 9.48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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)                                  | 7.98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| UPS Power Module Weight (lbs.)                                | 17.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Unit Weight (lbs.)                                            | 17.6000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Unit Weight (kg)                                              | 7.98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ENVIRONMENTAL</b>                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 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 to 95%, non-condensing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| AC Mode BTU / Hr. (Full Load)                                 | 44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| AC Mode Efficiency Rating (100% Load)                         | 96%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Audible Noise                                                 | 45 dBA maximum, front side 1m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>COMMUNICATIONS</b>                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |



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|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network Management Cards                                    | <a href="https://tripplite.eaton.com/Web-Management-Accessory-Card-SmartPro-SmartOnline-UPS-Systems~TLNETCARD">TLNETCARD</a> & <a href="https://tripplite.eaton.com/Network-Card-Eaton-Tripp-Lite-Series-UPS-Systems~WEBCARDLXE">WEBCARDLXE</a> |
| 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 <a href="https://tripplite.eaton.com/products/power-alert">https://tripplite.eaton.com/products/power-alert</a>                                |
| Communications Cable                                        | USB and DB9 cabling included                                                                                                                                                                                                                    |
| WatchDog Compatibility                                      | Supports Watchdog application, OS and hard-reboot restart options for remote applications                                                                                                                                                       |
| Network UPS Tools (NUT) Compatibility                       | NUT compatible. See a full list of NUT compatible Tripp Lite UPS systems at <a href="https://networkupstools.org/stable-hcl.html?manufacturer=Tripp%20Lite">https://networkupstools.org/stable-hcl.html?manufacturer=Tripp%20Lite</a>           |
| Network Management Card Description                         | Network management card optional                                                                                                                                                                                                                |
| Communications Interface                                    | DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface; USB (HID enabled)                                                                                                                                                           |
| <b>LINE / BATTERY TRANSFER</b>                              |                                                                                                                                                                                                                                                 |
| Transfer Time                                               | 2-4 milliseconds                                                                                                                                                                                                                                |
| Low Voltage Transfer to Battery Power (Setpoint)            | 90                                                                                                                                                                                                                                              |
| High Voltage Transfer to Battery Power (Setpoint)           | 136                                                                                                                                                                                                                                             |
| <b>FEATURES &amp; SPECIFICATIONS</b>                        |                                                                                                                                                                                                                                                 |
| 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                                                                                   |
| Grounding Details                                           | Back panel grounding lug                                                                                                                                                                                                                        |
| <b>APPLICATIONS</b>                                         |                                                                                                                                                                                                                                                 |
| UPS Applications                                            | Large Network; High-End Desktop/Small Network                                                                                                                                                                                                   |
| <b>STANDARDS &amp; COMPLIANCE</b>                           |                                                                                                                                                                                                                                                 |
| Product Certifications                                      | CSA (Canada); NOM (Mexico); UL 1778                                                                                                                                                                                                             |
| Product Compliance                                          | RoHS; FCC Part 15 Class B (USA); Trade Agreements Act (TAA)                                                                                                                                                                                     |
| <b>WARRANTY &amp; SUPPORT</b>                               |                                                                                                                                                                                                                                                 |
| Product Warranty Period (Worldwide)                         | 2-year limited warranty                                                                                                                                                                                                                         |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico)  | \$250,000 & <a href="https://tripplite.eaton.com/support/insurance-policy">Ultimate Lifetime Insurance</a>                                                                                                                                      |



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