## SmartPro 230V 500VA 300W Line-Interactive UPS, 1 U Rack/Tower, Network Card Options, USB, DB9 Serial

## MODEL NUMBER: SMX500RT1U



Provides complete battery backup and power protection for connected equipment in a network closet or small business network.

## Features

- SMX500RT1U . $5 \mathrm{kVA} / 500 \mathrm{VA} / 300$ watt line interactive UPS
- 1U rack / tower compatible form factor
- IEC C14 input; 6 IEC C13 output receptacles
- Installed depth of only 11.8 in / 29.8 cm
- Large internal batteries offer runtimes of 14.6 minutes at half load ( $250 \mathrm{VA} / 150$ watts) and 3.2 minutes at full load (500VA/300 watts)
- Intelligent battery management system extends battery life
- Maintains regulated 230 V nominal output during brownouts as low as 187 V
- Includes 6 UPS-supported outlets, with one single-outlet load bank 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
- Compatible with UPS management card options TLNETCARD, WEBCARDLX and SNMPWEBCARD
- Optional WEBCARDLX (sold separately) with the latest version of PowerAlert Device Manager firmware (PADM20) provides enhanced remote management capabilities
- PADM20 and PowerAlert Element Manager (PAEM) form a powerful tool for expanding maintenance functions in large installations, including firmware update checks and backup and restoration of device configurations
- IP-based Auto Probe detects lost connectivity and restores service autonomously
- 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
- C14 inlet accepts user-supplied AC power cord with country specific plug


## Highlights

- 500VA line interactive 1 U rack/tower UPS
- 230 V 50 / 60 Hz nominal output
- Optional WEBCARDLX with latest version of PADM20 supports Auto Probe feature
- Front panel status LEDs; 1 switched output load bank
- C14 input; 6 C13 outlets; 2 C13 to C14 cables


## 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, line noise 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

- SMX500RT1U 500VA 300W 230V Line-Interactive UPS with 6 Outlets
- USB cable
- DB9 cable
- EPO cable
- (2) C13-to-C14 AC power cords, 1.8 m
- Rack-mounting hardware
- Owner's manual
- Network-grade AC surge suppression
- Field-replaceable, hot-swappable internal UPS batteries
- Optional PDUBHV10 bypass PDU enables hot-swappable UPS replacement with no disruption to connected equipment


## Specifications

| OVERVIEW |  |
| :---: | :---: |
| UPC Code | 037332119254 |
| UPS Type | Line-Interactive |
| INPUT |  |
| Input Phase | Single-Phase |
| Rated input current (Maximum Load) | 7A (Maximum input with 300W UPS and 1310W surge-only loads) |
| Nominal Input Voltage(s) Supported | 230 V AC |
| Nominal Input Voltage Description | Accepts inputs between 187 and 265V for AC mode operation |
| UPS Input Connection Type | C14 inlet |
| UPS Input Connection Description | C14 inlet accepts user-supplied AC power cord with country-specific plug; Includes 21.8 m C13 to C 14 power cables |
| Input Circuit Breakers | 7A thermal breaker |
| OUTPUT |  |
| Output Capacity (VA) | 500 |
| Output Capacity (kVA) | 0.5 |
| Output Capacity (Watts) | 300 |
| Output Capacity (kW) | 0.3 |
| Power Factor | 0.6 |
| Nominal Voltage Details | 230 v nominal inverter output voltage |
| Frequency Compatibility | $50 / 60 \mathrm{~Hz}$ |
| Frequency Compatibility Details | Automatic frequency selection; $50 \mathrm{~Hz}(46-54 \mathrm{~Hz}) / 60 \mathrm{~Hz}(56-64 \mathrm{~Hz})$ |
| Output Voltage Regulation (Line Mode) | -8\%, +15\% |
| Output Voltage Regulation (Battery Mode) | +/-5\% |
| Included Output Power Cables | Two 1.8m IEC320-C13 to C14 load jumper cables |
| UPS Output Receptacles (Surge Suppression Only) | 5 UPS outlets, 1 surge-only outlet |
| Load Management Receptacles | One switchable single-outlet C13 load bank |
| Hot-Swap PDU options | PDUBHV10 (2U / 8 C13 outlets) |


| Output AC Waveform (AC Mode) | Sine wave |
| :---: | :---: |
| Output AC Waveform (Battery Mode) | PWM sine wave |
| Nominal Output Voltage(s) Supported | 220V; 230V; 240 V |
| Output Receptacles | (6) C13 |
| Output Amp Capacity | 2.17A maximum (UPS outlets) / 7A maximum (UPS + Surge-only Outlets) |
| Individually Controllable Load Banks | Yes |
| BATTERY |  |
| 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 SMX500RT1U models with the Series Number AG-03AD listed on the UPS nameplate (Sold since 2021); For all prior versions of SMX500RT1U, use Tripp Lite \ <a class="productLink" href="//tripplite.eaton.com/1U-UPS-Replacement-12VDC-Battery-Cartridge-Select-Tripp-Lite-SmartPro-UPS~RBC62-1U">RBC62-1U</a>\  replacement battery; Contact Tripp Lite customer service for additonal 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 187 |
| Undervoltage Correction | Input voltages between 187 and 215 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 |  |  |
| UPS AC Suppression Joule Rating | 480 |  |
| EMI / RFI AC Noise Suppression | Yes |  |
|  |  |  |
| PHYSICAL | Rackmount; Tower |  |
| Primary Form Factor | $1 U$ |  |
| Rack Height |  |  |


| 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) | 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.) | $4.20 \times 15.80 \times 21.00$ |
| Shipping Dimensions (hwd/cm) | $10.67 \times 40.13 \times 53.34$ |
| Shipping Weight (lbs.) | 17.70 |
| Shipping Weight (kg) | 8.03 |
| UPS Housing Material | Steel |
| UPS Power Module Dimensions (hwd, cm) | $4.39 \times 43.99 \times 28.60$ |
| UPS Power Module Dimensions (hwd, in.) | $1.73 \times 17.32 \times 11.26$ |
| UPS Power Module Weight (kg) | 8.03 |
| UPS Power Module Weight (lbs.) | 17.7 |
| Unit Dimensions (hwd / in.) | $1.730 \times 17.320 \times 11.260$ |
| Unit Weight (lbs.) | 16.310 |
| Unit Weight (kg) | 7.40 |
| ENVIRONMENTAL |  |
| Operating Temperature Range | $32^{\circ}$ to $104^{\circ} \mathrm{F}\left(0^{\circ}\right.$ to $\left.40^{\circ} \mathrm{C}\right)$ |
| Storage Temperature Range | $5^{\circ}$ to $122^{\circ} \mathrm{F}\left(-15^{\circ}\right.$ to $\left.50^{\circ} \mathrm{C}\right)$ |
| Relative Humidity | 0 to 95\%, non-condensing |
| AC Mode BTU / Hr. (Full Load) | 35 |
| AC Mode Efficiency Rating (100\% Load) | 97\% |
| Audible Noise | 45 dBA maximum, front side 1 m |
| COMMUNICATIONS |  |
| Network Management Cards | \ <a class="productLink" href="//tripplite.eaton.com/Network-Card-Eaton-Tripp-Lite-Series-UPSSystems \(\sim\) 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 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 <br> Description | Network management card optional |
| Communications Interface | USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface |
| LINE / BATTERY TRANSFER | $2-4$ milliseconds |
| Transfer Time | 187 |
| Low Voltage Transfer to Battery <br> Power (Setpoint) | 264 |
| High Voltage Transfer to Battery <br> Power (Setpoint) | FEATURES \& SPECIFICATIONS |
| Cold Start (Startup in Battery Mode | Cold-start operation supported |
| Cold <br> During a Power Failure) | Auto Probe Monitoring and Reboot (requires WEBCARDLX); Automatic Voltage Regulation (AVR); Hot swappable <br> batteries; Remote management; Surge/noise protection |
| High Availability UPS Features | Greater than 95\% efficiency - GREEN UPS; Individually controllable load banks |
| Green Energy-Saving Features | Back panel grounding lug |
| Grounding Details |  |

## APPLICATIONS

| UPS Applications |  |
| :--- | :--- |
| STANDARDS \& COMPLIANCE |  |
| Product Certifications | CSA (Canada); IEC/EN 62040; UL 1778 |
| Product Compliance | RoHS; CE (Europe); EAC (Belarus, Kazakhstan, Russia) |
| WARRANTY \& SUPPORT | 2-year limited warranty |
| Product Warranty Period <br> (International) | Product Warranty Period (Mexico) |
| 2-year limited warranty |  |
| Product Warranty Period (Puerto <br> Rico) | 2-year limited warranty | are the property of their respective owners.

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