

SmartPro 230V 1kVA 900W Line-Interactive Sine Wave UPS, 2U Rack/Tower, Network Card Options, LCD, USB, DB9, 6 Outlets

MODEL NUMBER: **SMX1000RT2U**



Protects connected mission-critical equipment against damage, downtime and data loss due to blackouts, brownouts, surges and line noise. Ideal solution for point-of-sale applications, VoIP systems and small business networks.

Description

The SMX1000RT2U SmartPro® 230V 1kVA 900W Line-Interactive Sine Wave UPS provides battery backup and AC power protection against blackouts, brownouts, power surges and line noise that can damage electronics or destroy data. Ideal for backing up point-of-sale applications, VoIP systems and small business networks, the SMX1000RT2U switches to battery mode in milliseconds to keep your connected equipment running long enough to save files and shut down safely with no data loss. Featuring six C13 outlets (four switchable) and a C14 inlet that accepts a user-supplied AC power cord, the SMX1000RT2U has an internal battery that provides 11.9 minutes of support at half load and 3.6 minutes at full load. A front-panel LCD screen lets you configure settings and monitor important data, such as load level, voltage, battery charge and estimated runtimes.

Automatic voltage regulation (AVR) maintains 230V nominal output over an input range of 182V to 278V without using battery power. EMI/RFI noise filtering improves your equipment's performance and prevents damage. A 350-joule surge suppression rating protects your equipment from harmful power surges. With free downloadable PowerAlert® software, the SMX1000RT2U enables safe unattended system shutdown in case of a prolonged power failure. Adding an optional Network Management Card permits remote management of the UPS.

Features

Protects Mission-Critical Rack-Mounted Equipment

- Provides fully regulated sine wave AC output for point-of-sale applications, VoIP systems and small business networks
- Audible alarm signals loss of utility power, overload, low battery and fault conditions
- 6 C13 outlets
- C14 inlet accepts user-supplied AC power cord with country-specific plug
- 350-joule surge suppression rating

Reliable Battery Backup

- Supports half load up to 11.9 min. and full load up to 3.6 min.

Highlights

- Corrects under- and overvoltages from 182V to 278V
- 6 C13 outlets—4 switchable via network interface
- Network power management and control capability
- Interactive LCD monitoring screen
- 11.9 min. runtime at half load; 3.6 min. at full load
- Add optional WEBCARDLX with latest version of PADM20 for IP-based Auto Probe feature

Package Includes

- SMX1000RT2U SmartPro 230V 1kVA 900W Line-Interactive Sine Wave UPS
- USB cable
- DB9 cable
- EPO cable
- (2) IEC-320 C13-to-C14 power cables
- Mounting hardware
- Owner's manual

- Internal batteries designed for hot-swap field replacement
- 97% line-power efficiency rating saves money in energy costs

2 Load Banks with Switchable Outlets

- Can control 4 outlets remotely to reboot equipment or shed nonessential loads

Automatic Voltage Regulation (AVR)

- Maintains 230V nominal output over input range of 182V–278V without using battery power

EMI/RFI Line Noise Filtering

- Removes electromagnetic and radio frequency interference that can disrupt or damage equipment's performance

Interactive LCD Screen

- Front-panel LCD signals voltage, battery and load statuses
- Supports multiple advanced user setup and operating preferences
- Rotates for easy viewing in rack-mount or tower configurations

Optional Network Management Cards

- 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

Communications Ports

- USB and DB9 ports enable data-saving unattended shutdown when used with PowerAlert software (available via free download at tripplite.eaton.com/products/power-alert)
- EPO port supports emergency shutdown in large facilities

Versatile Installation Options

- Hardware included for 4-post mounting in 2U of EIA-standard 19 in. rack
- Mounts on wall or 2-post rack with optional 2POSTRMKITWM accessory
- Mounts in upright tower position with optional 2-9USTAND accessory

Specifications

| OVERVIEW | |
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| UPC Code | 037332119223 |
| UPS Type | Line-Interactive |
| INPUT | |

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| Input Phase | Single-Phase |
| Rated input current (Maximum Load) | 4.8A |
| Nominal Input Voltage(s) Supported | 230V AC |
| UPS Input Connection Type | C14 inlet |
| UPS Input Connection Description | IEC320-C14 input connection accepts a variety of detachable cordsets to match country or site-specific wall receptacles |
| Input Circuit Breakers | 10A |
| OUTPUT | |
| Output Capacity (VA) | 1000 |
| Output Capacity (kVA) | 1 |
| Output Capacity (Watts) | 900 |
| Output Capacity (kW) | 0.9 |
| Power Factor | 0.9 |
| Nominal Voltage Details | 230V nominal output in battery mode |
| Frequency Compatibility | 50 / 60 Hz |
| Frequency Compatibility Details | Automatic frequency selection |
| Output Voltage Regulation (Line Mode) | +6%, -11% |
| Output Voltage Regulation (Battery Mode) | +/- 5% |
| Included Output Power Cables | Includes 2 C13 to C14 output power cables |
| Load Management Receptacles | Two switchable two-outlet C13 load banks |
| Hot-Swap PDU options | PDUBHV10 (2U / 8 C13 outlets) |
| Output AC Waveform (AC Mode) | Sine wave |
| Output AC Waveform (Battery Mode) | Pure Sine wave |
| Nominal Output Voltage(s) Supported | 220V; 230V; 240V |
| Output Receptacles | (6) C13 |
| Individually Controllable Load Banks | Yes |
| BATTERY | |
| Battery Type | Valve Regulated Lead Acid (VRLA) |
| Runtime Full Load (min.) | 3.6 min. (900W) |
| Runtime Half Load (min.) | 11.9 min. (450W) |
| Expandable Runtime | No |
| DC System Voltage (VDC) | 24 |

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| Battery Recharge Rate (Included Batteries) | Less than 4.5 hours from 10% to 90% (typical, full load discharge) |
| Battery Access | Front panel battery access door |
| Internal UPS Replacement Battery Cartridge | IMPORTANT BATTERY REPLACEMENT INFORMATION > If your SMX1000RT2U UPS is equipped with a LCD front-panel screen, order Tripp Lite RBC24V-LCD (quantity 1) replacement battery; If your SMX1000RT2U UPS is equipped with LED front-panel indicators, order Tripp Lite RBC92-2U (quantity 1) replacement battery |
| Battery Replacement Description | Hot-swappable, user replaceable batteries |
| VOLTAGE REGULATION | |
| Voltage Regulation Description | Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 182 to 278 |
| Overvoltage Correction | Input voltages between 244 and 278 are reduced by 12% |
| Undervoltage Correction | Input voltages between 182 and 206 are boosted by 12% |
| USER INTERFACE, ALERTS & CONTROLS | |
| Front Panel LCD Display | Front panel LCD information and configuration screen offers detailed UPS and site power status and operating data, plus configuration of voltage, operating mode, alarm function and a variety of additional options (see manual for detailed LCD configuration and monitoring options) |
| Switches | 3 pushbutton switches control OFF / ON power status, MODE selection and MUTE / ENTER control functions |
| Alarm Cancel Operation | Power-fail alarm can be temporarily silenced using alarm-cancel switch; silent mode alarm configuration option available |
| Audible Alarm | Audible alarm indicates UPS startup, power-failure, low-battery, overload, UPS fault and remote shutdown conditions |
| SURGE / NOISE SUPPRESSION | |
| UPS AC Suppression Joule Rating | 350 |
| UPS AC Suppression Response Time | Instantaneous |
| EMI / RFI AC Noise Suppression | Yes |
| PHYSICAL | |
| Primary Form Factor | Rackmount |
| Rack Height | 2U |
| Cooling Method | Fan |
| Included Mounting Accessory Description | Included 4POSTRAILKIT mounting bracket enables installation in 4 post racks from 20.5 to 36 inches (521 to 914mm) |
| Installation Form Factors Supported with Included Accessories | 4 post 19 inch rackmount |

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| Installation Form Factors Supported with Optional Accessories | 2 post rackmount (2-Post-Rack-Mount-Wall-Mount-Adapter-Kit-select-Rack-Mount-UPS-Systems~2POSTRMKITWM); 2-4 post front rail rackmount (Heavy-Duty-2-post-Front-Mounting-Ear-Kit-UPSHDEARKIT); 4 post rackmount short-depth (4-Post-1U-Universal-Adjustable-Rack-Mount-Shelf-Kit-for-Wall-Mount-Racks~4POSTRAILKITWM); Tower (2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND); Wallmount (2-Post-Rack-Mount-Wall-Mount-Adapter-Kit-select-Rack-Mount-UPS-Systems~2POSTRMKITWM); |
| Minimum Required Rack Depth (cm) | 40.64 |
| Minimum Required Rack Depth (inches) | 16 |
| Optional Mounting Accessory Notes | Optional 2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND ; enables upright tower UPS placement; 2-Post-Rack-Mount-Wall-Mount-Adapter-Kit-select-Rack-Mount-UPS-Systems~2POSTRMKITWM ; enables wall-mount and 2-post rackmount installation; 4-Post-1U-Universal-Adjustable-Rack-Mount-Shelf-Kit-for-Wall-Mount-Racks~4POSTRAILKITWM ; enables installation in 4-post short-depth racks from 14.5 to 23.5 inches (368 to 597mm); Heavy-Duty-2-post-Front-Mounting-Ear-Kit-UPSHDEARKIT ; enables installation in 2 or 4-post racks using front vertical rails only, without rear support |
| Primary UPS Depth (mm) | 343 |
| Primary UPS Height (mm) | 89 |
| Primary UPS Width (mm) | 445 |
| Shipping Dimensions (hwd / in.) | 8.50 x 23.10 x 18.20 |
| Shipping Dimensions (hwd / cm) | 21.59 x 58.67 x 46.23 |
| Shipping Weight (lbs.) | 45.90 |
| Shipping Weight (kg) | 20.82 |
| UPS Housing Material | Steel |
| UPS Power Module Dimensions (hwd, cm) | 8.89 x 44.45 x 34.29 |
| UPS Power Module Dimensions (hwd, in.) | 3.5 x 17.5 x 13.5 |
| UPS Power Module Weight (kg) | 15.42 |
| UPS Power Module Weight (lbs.) | 34 |
| Unit Weight (lbs.) | 34.0000 |
| Unit Weight (kg) | 15.42 |
| 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 to 95%, non-condensing |
| AC Mode BTU / Hr. (Full Load) | 100 |
| AC Mode Efficiency Rating (100% Load) | 97% |
| Battery Mode Heat Dissipation (BTU/Hr) @ Full Load | 918 |

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| Audible Noise | 45 dBA maximum, front side 1m |
| COMMUNICATIONS | |
| Network Management Cards | TLNETCARD & 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 | 2-4 milliseconds |
| Low Voltage Transfer to Battery Power (Setpoint) | 182 |
| High Voltage Transfer to Battery Power (Setpoint) | 278 |
| FEATURES & SPECIFICATIONS | |
| 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 |
| Green Energy-Saving Features | Greater than 95% efficiency - GREEN UPS; Individually controllable load banks |
| Grounding Details | Back panel grounding lug |
| APPLICATIONS | |
| UPS Applications | Large Network; High-End Desktop/Small Network |
| STANDARDS & COMPLIANCE | |
| Product Certifications | GOST (Russia); IEC/EN 62040 |
| Product Compliance | RoHS; CE (Europe) |
| WARRANTY & SUPPORT | |
| Product Warranty Period (International) | 2-year limited warranty |
| Product Warranty Period (Mexico) | 2-year limited warranty |
| Product Warranty Period (Puerto Rico) | 2-year limited warranty |



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