

## 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 Tripp Lite's free downloadable PowerAlert® software, the SMX1000RT2U enables safe unattended system shutdown and file saves 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

### 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
- 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

- 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

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.
- 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 Tripp Lite UPS management card options TLNETCARD, WEBCARDLX and SNMPWEBCARD

#### **Communications Ports**

- USB and DB9 ports enable data-saving unattended shutdown when used with Tripp Lite's Power Alert software (available via free download at [www.tripplite.com/poweralert](http://www.tripplite.com/poweralert))
- 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**



| <b>OVERVIEW</b>                          |   |
|--|---|
| UPC Code                                 | 037332119223  |
| UPS Type                                 | Line-Interactive  |
| <b>OUTPUT</b>                            |   |
| Output Volt Amp Capacity (VA)            | 1000  |
| Output kVA Capacity (kVA)                | 1   |
| Output Watt Capacity (Watts)             | 900   |
| 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   |
| <b>INPUT</b>                             |   |
| 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 user supplied detachable C13 output cordsets to match country or site-specific power sources |
| Input Circuit Breakers                   | 10A   |
| Input Phase                              | Single-Phase  |
| <b>BATTERY</b>                           |   |
| Full Load Runtime (min.)                 | 3.6 min. (900w)   |



|   |   |
|---|---|
| Half Load Runtime (min.)                                      | 11.9 min (450w)   |
| DC System Voltage (VDC)                                       | 24  |
| Battery Recharge Rate (Included Batteries)                    | Less than 4.5 hours from 10% to 90% (typical, full load discharge)  |
| Internal UPS Replacement Battery Cartridge                    | See Tripp Lite RBC selector guide   |
| Battery Access  | Front panel battery access door   |
| Battery Replacement Description                               | Hot-swappable, user replaceable batteries   |
| Expandable Runtime  | No  |
| <b>VOLTAGE REGULATION</b>                                     |   |
| 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%   |
| <b>USER INTERFACE, ALERTS &amp; CONTROLS</b>                  |   |
| 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   |
| 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                               | 350   |
| UPS AC Suppression Response Time                              | Instantaneous   |
| EMI / RFI AC Noise Suppression                                | Yes   |
| <b>PHYSICAL</b>   |   |
| 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  |
| Installation Form Factors Supported with Optional Accessories | 2 post rackmount (2POSTRMKITWM); 2-4 post front rail rackmount (UPSHDEARKIT); 4 post rackmount short-depth (4POSTRAILKITWM); Tower (2-9USTAND); Wallmount (2POSTRMKITWM)  |
| Minimum Required Rack Depth (cm)                              | 40.00   |
| Minimum Required Rack Depth (inches)                          | 15.75   |



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|--|--|
| Optional Mounting Accessory Notes      | Optional <a href="#">2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND</a> enables upright tower UPS placement; <a href="#">2-Post-Rack-Mount-Wall-Mount-Adapter-Kit-select-Rack-Mount-UPS-Systems~2POSTRMKITWM</a> enables wall-mount and 2-post rackmount installation; <a href="#">4-Post-1U-Universal-Adjustable-Rack-Mount-Shelf-Kit-for-Wall-Mount-Racks~4POSTRAILKITWM</a> enables installation in 4-post short-depth racks from 14.5 to 23.5 inches (368 to 597mm); <a href="#">Heavy-Duty-2-post-Front-Mounting-Ear-Kit-UPSHDEARKIT</a> enables installation in 2 or 4-post racks using front vertical rails only, without rear support |
| Primary Form Factor                    | Rackmount  |
| Primary UPS Depth (mm)                 | 343  |
| Primary UPS Height (mm)                | 89   |
| Primary UPS Width (mm)                 | 445  |
| Rack Height                            | 2U   |
| Shipping Dimensions (hwd / cm)         | 21.59 x 58.67 x 46.23  |
| Shipping Dimensions (hwd / in.)        | 8.50 x 23.10 x 18.20   |
| Shipping Weight (kg)                   | 20.82  |
| Shipping Weight (lbs.)                 | 45.90  |
| 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   |
| <b>ENVIRONMENTAL</b>                   |  |
| 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)          | 100  |
| Battery Mode BTU / Hr. (Full Load)     | 918  |
| AC Mode Efficiency Rating (100% Load)  | 97%  |
| <b>COMMUNICATIONS</b>                  |  |
| Communications Interface               | DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface; USB (HID enabled)  |
| Network Management Cards               | SNMPWEBCARD; TLNETCARD; <a href="#">Web-Management-Accessory-Card~WEBCARDLX</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 Local software at <a href="http://www.tripplite.com/poweralert">http://www.tripplite.com/poweralert</a>   |
| Communications Cable                   | USB and DB9 cabling included   |



|   |   |
|---|---|
| WatchDog Compatibility                                      | Supports Watchdog application, OS and hard-reboot restart options for remote applications |
| <b>LINE / BATTERY TRANSFER</b>                              |   |
| Transfer Time   | 2-4 milliseconds  |
| Low Voltage Transfer to Battery Power (Setpoint)            | 182   |
| High Voltage Transfer to Battery Power (Setpoint)           | 278   |
| <b>SPECIAL FEATURES</b>                                     |   |
| Grounding Lug   | Back panel grounding lug  |
| Cold Start (Startup in Battery Mode During a Power Failure) | Cold-start operation supported  |
| High Availability UPS Features                              | Hot swappable batteries   |
| Green Energy-Saving Features                                | Greater than 95% efficiency - GREEN UPS; Individually controllable load banks             |
| <b>CERTIFICATIONS</b>                                       |   |
| UPS Certifications  | CE; ROHS (Restriction of Hazardous Substances); Tested to GOST (Russia)                   |
| UPS Certification Details                                   | IEC 62040-1, IEC 62040-2 Class A EMI  |
| <b>WARRANTY</b>   |   |
| 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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