# SmartPro 230V 5kVA 3.75kW Line-Interactive Sine Wave UPS, 3U, Extended Run, Network Card Options, USB, DB9

MODEL NUMBER: **SMX5000XLRT3U**









## Highlights

- 5kVA / 5000VA line interactive 3U rack/tower UPS; Sine wave output
- 230V nominal output during brownouts to 170V and overvoltages to 282V
- Add optional WEBCARDLX with latest version of PADM20 for enhanced remote management
- 3U all-in-one chassis; 98% efficiency
- Hardwire input; 8 C13 and 3 C19 outlets

## Package Includes

- SMX5000XLRT3U UPS system
- USB, DB9 and EPO Cabling
- Mounting hardware for 4 post rackmount installation
- Warranty information
- Instruction manual

## Description

5000VA line interactive UPS system for server, network and telecommunications equipment. 5kVA UPS with internal batteries installs in only 3 rack spaces with a depth of only 635mm / 25 inches. High 98% line-power efficiency rating reduces energy consumption and BTU heat output. Expandable battery runtime with optional BP48V24-2U (limit 1), BP48V60RT-3U (multi-pack compatible) and BP48V27-2US (multi-pack compatible) external battery packs. Uninterruptible Power Supply (UPS) switches to battery-derived AC output during power failures and extreme voltage variations. Line interactive Automatic Voltage Regulation (AVR) offers voltage boost during brownouts and voltage reduction during overvoltage conditions to maintain regulated 230v output over an input range of 170-282V. Supports hardwire input. Includes C19 and C13 output receptacles. Network-grade AC surge and noise suppression. Network management interfaces support communications via USB, DB9 serial and slot for network management card options. Supports simultaneous detailed monitoring of equipment load levels, self-test data and utility power conditions via all 3 network interfaces at once. PowerAlert UPS monitoring software is available via free download. Emergency Power Off (EPO) interface. 3-stage metered current monitoring and battery charge status LEDs. Utility power and voltage regulation LEDs. Audible alarm. Self-test. 4-post rackmount installation accessories included; 2-9USTAND tower kit and 2POSTRMKITHD two post rack mounting accessories available. Field-replaceable, hot-swappable internal batteries and external battery packs.

## Features

- 5000VA/3750 watt max. output power capacity compatible with International 230V input voltage
- 3U rack/tower UPS installs in standard 19-inch rack enclosures with an installed depth of only 635mm / 25in
- Protects sensitive networking equipment from blackouts, voltage fluctuations and transient surges
- Line Interactive Automatic Voltage Regulation (AVR) corrects 230V nominal input from 170 to 282VAC to usable 230V levels without consuming battery power
- AVR circuits boost undervoltages from 170 to 199V by 12% and reduce overvoltages from 245 to 282V by 12%
- Network interfaces support simultaneous communications via USB, DB9 serial or contact closure and slot for network management card options
- 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

- USB & Serial ports enable data-saving unattended shutdown when used with PowerAlert software, available via FREE download from tripplite.eaton.com/products/power-alert
- Built-in Emergency Power Off (EPO) interface with cable
- Sine wave output in AC and battery mode
- Expandable runtime with optional BP48V24-2U (limit 1), BP48V60RT-3U (multi-pack compatible) and BP48V27-2US (multi-pack compatible) external battery packs
- Half/full load runtime of 20/8.5 minutes with internal batteries
- Intelligent battery management system extends battery life
- Includes 11 output receptacles (3 C19/8 C13)
- Hardwire input AC connection
- 3 stage metered LEDs offer current monitoring and battery charge level
- Mains power and voltage regulation LEDs offer at-a-glance power status information
- Front panel switches support self-test and alarm cancel functions
- Included adjustable mounting rails support installation in 4-post 19-inch racks
- Supports upright tower placement with optional 2-9USTAND accessory
- CE, GOST, SASO listed

# Specifications

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| **OVERVIEW** | |
| UPC Code | 037332121455 |
| UPS Type | Line-Interactive |
| **INPUT** | |
| Input Phase | Single-Phase |
| Rated input current (Maximum Load) | 27A |
| Nominal Input Voltage(s) Supported | 230V AC |
| UPS Input Connection Type | Hardwire |
| UPS Input Connection Description | Hardwire input supports International 230V input (L, N, PE) |
| **OUTPUT** | |
| Output Capacity (VA) | 5000 |
| Output Capacity (kVA) | 5 |
| Output Capacity (Watts) | 3750 |
| Output Capacity (kW) | 3.75 |
| Power Factor | 0.75 |
| Nominal Voltage Details | 230v nominal inverter output voltage |
| Frequency Compatibility | 50 / 60 Hz |
| Frequency Compatibility Details | Automatic frequency selection |

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| Output Voltage Regulation (Line Mode) | -17%, +8% |
| Output Voltage Regulation (Battery Mode) | +/- 5% |
| Included Output Power Cables | Includes 3 C13 to C14 output power cables |
| Output Circuit Breakers | 15A (x3) breaker supports 1 C19 outlet each, 10A (x2) breaker supports 4 C13 outlets each |
| 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 | (8) C13; (3) C19 |
| Individually Controllable Load Banks | No |
| **BATTERY** | |
| Battery Type | Valve Regulated Lead Acid (VRLA) |
| Runtime Full Load (min.) | 8.5 min. (3750W) |
| Runtime Half Load (min.) | 20 min. (1875W) |
| Expandable Runtime | Yes |
| External Battery Pack Compatibility |  <a class="productLink" href="//tripplite.eaton.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosure-DC-Cabling-select-UPS-Systems~BP48V24-2U">BP48V24-2U</a>  (limit 1); BP48V60RT-3U (multi-pack compatible);  <a class="productLink" href="//tripplite.eaton.com/External-48V-2U-Rack-Tower-Battery-Pack-for-UPS-Systems~BP48V27-2US">BP48V27-2US</a>  (multi-pack compatible) |
| DC System Voltage (VDC) | 48 |
| Battery Recharge Rate (Included Batteries) | Less than 4 hours from 10% to 90% (typical, full load discharge) |
| Battery Access | Front panel battery access door |
| Internal UPS Replacement Battery Cartridge |  <a class="productLink" href="//tripplite.eaton.com/3U-UPS-Replacement-48VDC-Battery-Cartridge-select-Tripp-Lite-SmartPro-UPS~RBC94-3U">RBC94-3U</a>  (quantity 3) |
| 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 170 to 282 |
| Overvoltage Correction | Input voltages between 245 and 282 are reduced by 12% |
| Undervoltage Correction | Input voltages between 170 and 199 are boosted by 12% |
| **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; 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 |

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| **SURGE / NOISE SUPPRESSION** | |
| UPS AC Suppression Joule Rating | 480 |
| UPS AC Suppression Response Time | Instantaneous |
| EMI / RFI AC Noise Suppression | Yes |
| **PHYSICAL** | |
| Primary Form Factor | Rackmount |
| Rack Height | 3U |
| Cooling Method | Fans |
| Installation Form Factors Supported with Included Accessories | 4 post 19 inch rackmount |
| Installation Form Factors Supported with Optional Accessories | 2 post rackmount ( <a class="productLink" href="//tripplite.eaton.com/2-Post-Rack-Mount-Installation-Kit-3U-Larger-UPS-Transformer-Battery-Pack-Components~2POSTRMKITHD">2POSTRMKITHD</a> ); Tower ( <a class="productLink" href="//tripplite.eaton.com/2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND">2-9USTAND</a> ) |
| Minimum Required Rack Depth (cm) | 71.12 |
| Minimum Required Rack Depth (inches) | 28 |
| Minimum Required Rack Depth with External Battery Pack (cm) | 81 |
| Minimum Required Rack Depth with External Battery Pack (in.) | 32 |
| Minimum Required Rack Depth without External Battery Pack (cm) | 72 |
| Minimum Required Rack Depth without External Battery Pack (in.) | 28.5 |
| Primary UPS Depth (mm) | 635 |
| Primary UPS Height (mm) | 132 |
| Primary UPS Width (mm) | 445 |
| Shipping Dimensions (hwd / in.) | 11.25 x 22.52 x 31.50 |
| Shipping Dimensions (hwd / cm) | 28.58 x 57.20 x 80.01 |
| Shipping Weight (lbs.) | 182.00 |
| Shipping Weight (kg) | 82.55 |
| UPS Housing Material | Steel |
| UPS Power Module Dimensions (hwd, cm) | 13.21 x 44.45 x 63.50 |
| UPS Power Module Dimensions (hwd, in.) | 5.2 x 17.5 x 25 |
| UPS Power Module Weight (kg) | 64.86 |
| UPS Power Module Weight (lbs.) | 143 |
| Unit Weight (lbs.) | 143.3000 |

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| Unit Weight (kg) | 65.00 |
| **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) | 271 |
| AC Mode Efficiency Rating (100% Load) | 98% |
| Battery Mode Heat Dissipation (BTU/Hr) @ Full Load | 1267 |
| Audible Noise | 45 dBA maximum, front side 1m |
| **COMMUNICATIONS** | |
| Network Management Cards |  <a class="productLink" href="//tripplite.eaton.com/Web-Management-Accessory-Card-SmartPro-SmartOnline-UPS-Systems~TLNETCARD">TLNETCARD</a> ;  <a class="productLink" href="//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 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 |
| **LINE / BATTERY TRANSFER** | |
| Transfer Time | 7 ms (AC to Battery); 1 ms (Battery to AC) typical |
| Low Voltage Transfer to Battery Power (Setpoint) | 170 |
| High Voltage Transfer to Battery Power (Setpoint) | 282 |
| **FEATURES & SPECIFICATIONS** | |
| Cold Start (Startup in Battery Mode During a Power Failure) | Cold-start operation supported |
| High Availability UPS Features | Auto Probe Monitoring (requires WEBCARDLXE); Automatic Voltage Regulation (AVR); Hot swappable batteries; Remote management; Surge/noise protection |
| Green Energy-Saving Features | Greater than 95% efficiency - GREEN UPS |
| Grounding Details | Back panel grounding lug |
| **APPLICATIONS** | |
| UPS Applications | Large Network; High-End Desktop/Small Network |

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| **STANDARDS & COMPLIANCE** | |
| 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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