

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

MODEL NUMBER: SMX5000XLRT3U









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 batteryderived 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

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 & 3 C19 outlets

Package Includes

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



- 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 <u>tripplite.eaton.com/products/power-alert</u>
- 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

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	



Prequency Compatibility Details Automatic frequency selection		
Mode) *** 5% Included Output Power Cables Included S C13 to C14 output power cables Output Circuit Breakers Output AC Waveform (Ac Mode) Sine wave Output AC Waveform (Ac Mode) Output AC Waveform (Battery Mode) Pure Sine wave Nominal Output Voltage(s) Supported (6) C13; (3) C19 Individually Controllable Load Banks No *** *** *** *** ** ** ** **	Frequency Compatibility Details	Automatic frequency selection
Included Output Power Cables Includes 3 C13 to C14 output power cables Output CV waveform (AC Mode) Includes 3 C13 to C14 output power cables Output AC Waveform (AC Mode) Sine wave Output AC Waveform (AC Mode) Sine wave Output AC Waveform (Battery Pure Sine wave Nominal Output Voltage(s) 220V; 230V; 240V Output AC Waveform (Battery Pure Sine wave Nominal Output Voltage(s) 220V; 230V; 240V Output Receptacles (8) C13; (3) C19 Included AC Waveform (Battery Pure Sine wave Nominal Output Voltage(s) 220V; 230V; 240V Output Receptacles (8) C13; (3) C19 Included AC Waveform (Battery Pure Sine wave Nominal Output Voltage(s) Supported Output Receptacles (8) C13; (3) C19 Included AC Waveform (AC Mode) Pure Sine		-17%, +8%
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 Pure Sine wave Nominal Output Voltage(s) 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 Full Load (min.) 20 min. (1875W) Expandable Runtime Yes External Battery Pack Compatibility Shapers and sales "product Link" hype://prippline.aaton.com/External-45V-2U-Rack-Tower-Battery-Pack-Enclosure-DC-Cabling-alexe-Description (multi-pack compatible) DC System Voltage (VDC) 48 Battery Recharge Rate (Included Battery Chart Shapers, and sales "product Link" hype://prippline.aaton.com/External-48V-2U-Rack-Tower-Battery-Pack-For-Gasses-Product Link" hype://prippline.aaton.com/External-48V-2U-Rack-Tower-Battery-Pack-For-Gasses-Product Link" hype://prippline.aaton.com/External-48V-2U-Rack-Tower-Battery-Pack-For-Gasses-Product Link" hype://prippline.aaton.com/External-48V-2U-Rack-Tower-Battery-Pack-For-Gasses-Product Link" hype://prippline.aaton.com/External-48V-2U-Rack-Tower-Battery-Pack-For-Gasses-Product-Link" hype://prippline.aaton.com/External-48V-2U-Rack-Tower-Battery-Pack-For-Gasses-Product-Link" hype://prippline.aaton.com/External-48V-2U-Rack-Tower-Battery-Pack-For-UPS-Systems-BP48V27-2US-S-BP48V27		+/- 5%
Output AC Waveform (AC Mode) Output AC Waveform (Battery Mode) Output AC Waveform (Battery Pure Sine wave Nominal Output Voltage(s) Supported (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 Full Load (min.) 20 min. (1875W) Expandable Runtime Yes External Battery Pack Compatibility Systems—B4940VA7-2U-SPA40VS-AU-SPA40VS-AU-SPA40VS-B40VS-AU-SPA4	Included Output Power Cables	Includes 3 C13 to C14 output power cables
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 Anbsp,-ca class="productLink" href="//tripplite.aeton.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosure-DC-Cabling-select-UPS-Systems-BP-48V6RT-3U-SB-P48V2A-2U-SB-P48V2A-2U-Sa-Anbsp; (mint 1), ,-ca class="productLink" href="//tripplite.aeton.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosure-DC-Cabling-select-UPS-Systems-BP-48V6RT-3U-SB-P48V2A-2U-SB-P48V2A-2U-Sa-Anbsp; (mint 1), ,-ca class="productLink" href="//tripplite.aeton.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosure-DC-Cabling-select-UPS-Systems-BP-48V6RT-3U-SB-P48V2A-2U-Sa-Anbsp; (mint 1), ,-ca class="productLink" href="//tripplite.aeton.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosure-DC-Cabling-select-UPS-Systems-BP-48V6RT-3U-SB-P48V2A-2U-Sa-Anbsp; (mint 1), ,-ca class="productLink" href="//tripplite.aeton.com/External-48V-2U-Rack-Tower-Battery-Pack-For-UPS-Systems-BP-48V27-2US'-SB-P48V2A-2U-SB-P48V2A-2U-Sa-Anbsp; (mint 1), ,-ca class="productLink" href="//tripplite.aeton.com/External-48V-2U-Rack-Tower-Battery-Pack-For-UPS-Systems-BP-48V27-2US'-SB-P48V2A-2U	Output Circuit Breakers	15A (x3) breaker supports 1 C19 outlet each, 10A (x2) breaker supports 4 C13 outlets each
Nominal Output Voltage(s) 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 Full Load (min.) 20 min. (1875W) Expandable Runtime Yes External Battery Pack Compatibility Anbsp, <a -sp48w60rt-3u-3d-8p48v27-2us"-sp48w60rt-3u-3d-8p48v27-2us"-sp48w60rt-3u-3d-8p48v27-2us"-sp48w60rt-3u-3d-8p48v27-2us"-sp48w60rt-3u-3d-8p48v27-2us"-sp48w60rt-3u-3d-8p48v27-2us"-sp48w60rt-3u-3d-8p48v27-2us"-sp48w60rt-3u-3d-8p48v27-2us"-sp48w60rt-3u-3d-8p48v27-2us"-sp48w60rt-3u-3d-8p48v27-2us"-sp48w60rt-3u-3d-8p48v27-2us"-sp48w60rt-3u-3d-8p48v27-2us"-sp48w60rt-3u-3d-8p48v27-2us"-sp48w60rt-3u-3d-8p48v27-2us"-sp48w60rt-3u-3d-8p48v27-2us"-sp48w60rt-3u-3d-8p48v27-2us"-sp48w60rt-3u-3d-8p48v27-2us"-sp48w60rt-3u-3d-8p48v27-2us"-sp48w60rt-3u-3d-8p48w27-2us"-sp48w60rt-3u-3d-8p48w27-2us"-sp48w60rt-3u-3d-8p48w27-2us"-sp48w60rt-3u-3d-8p48w27-2us"-sp48w60rt-3u-3d-8p48w27-2us"-sp48w60rt-3u-3d-8p48w27-2us"-sp48w60rt-3u-3d-8p48w27-2us"-sp48w60rt-3us-3d-8p48w27-2us"-sp48w60rt-3us-3d-8p48w27-2us"-sp48w60rt-3us-3d-8p48w27-2us"-sp48w60rt-3us-3d-8p48w27-2us"-sp48w60rt-3us-3d-8p48w27-2us"-sp48w60rt-3us-3d-8p48w27-2us"-sp48w60rt-3us-3d-8p48w27-2us"-sp48w60rt-3us-3d-8p48w27-2us"-sp48w60rt-3us-3d-8p48w27-2us"-sp48w60rt-3us-3d-8p48w27-2us"-sp48w60rt-3us-3d-8p48w27-2us"-sp48w60rt-3us-3d-8p48w27-2us"-sp48w60rt-3us-3d-8p48w27-2us"-sp48w60rt-3us-3d-8p48w27-2us"-sp48w60rt-3us-3d-8p48w27-2us"-sp48w60rt-3us-3d-8p48w27-2us-3d-8p48w27-2us"-sp48w60rt-3us-3d-8p48w27-2u<="" class="productLink" herf="/tripplite.eaton.com/External-48V-3U-Rack-Tower-Battery-Pack-Enclosure-DC-Cabling-select-UPS-Systems-BP48V60RT-3U-3D-8p48V60RT-3U-3D-8p48V60RT-3U-3D-8p48V60RT-3U-3D-8p48V60RT-3U-3D-8p48V27-2US" href="/tripplite.eaton.com/External-48V-2-Pack-Tower-Battery-Pack-Enclosure-DC-Cabling-select-UPS-Systems-BP48V27-2US-Sa-Bb4</td><td>Runtime Half Load (min.)</td><td>20 min. (1875W)</td></tr><tr><td>Cabling-select-UPS-Systems-BP48V24-2U-3a-8nbsp; (limit 1); -ac class=" productlink"="" td=""><td>Expandable Runtime</td><td>Yes</td>	Expandable Runtime	Yes
Battery Recharge Rate (Included Batteries) Battery Access Front panel battery access door Internal UPS Replacement Battery Cartridge 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-	External Battery Pack Compatibility	Cabling-select-UPS-Systems~BP48V24-2U">BP48V24-2U (limit 1); BP48V60RT-3U (multi-pack compatible); BP48V27-US US U
Battery Access Front panel battery access door Internal UPS Replacement Battery Access Front panel battery access door Internal UPS Replacement Battery Access Front panel battery Access Battery Access Front panel battery Access Battery Access Front panel battery Access Battery Access Battery Access Battery Access Battery Replacement Description Battery Battery Battery Replacement Description Battery Battery Battery Replacement Description Battery B	DC System Voltage (VDC)	48
Internal UPS Replacement Battery Cartridge RBC94-3U - (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 Power-fail alarm can be silenced using alarm-cancel switch; once silenced, alarm will re-sound to indicate low-		Less than 4 hours from 10% to 90% (typical, full load discharge)
Tripp-Lite-SmartPro-UPS~RBC94-3U">RBC94-3U> (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 Power-fail alarm can be silenced using alarm-cancel switch; once silenced, alarm will re-sound to indicate low-	Battery Access	Front panel battery access door
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 Power-fail alarm can be silenced using alarm-cancel switch; once silenced, alarm will re-sound to indicate low-		RBC94-3U -8nbsp; (quantity 3)
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 Power-fail alarm can be silenced using alarm-cancel switch; once silenced, alarm will re-sound to indicate low-	Battery Replacement Description	Hot-swappable, user replaceable batteries
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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-	Voltage Regulation Description	Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 170 to 282
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-	Overvoltage Correction	Input voltages between 245 and 282 are reduced by 12%
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-	Undervoltage Correction	Input voltages between 170 and 199 are boosted by 12%
Alarm Cancel Operation Power-fail alarm can be silenced using alarm-cancel switch; once silenced, alarm will re-sound to indicate low-	USER INTERFACE, ALERTS & CONTROLS	
	Switches	2 Switches control off/on power status and alarm-cancel/self-test operation
	Alarm Cancel Operation	



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		
UPS AC Suppression Response	Instantaneous		
EMI / RFI AC Noise Suppression	Yes		
PLIVOIDAL			
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 (2POSTRMKITHD); Tower (2-9USTAND)		
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
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	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
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	
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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