



**Tripp Lite**  
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## SmartPro 1kVA Line Interactive Sine Wave UPS, SNMPWEBCARD option, 2U Rack/Tower, USB, Serial, EPO, 230V

MODEL NUMBER: **SMX1000RT2U**



### Description

Tripp Lite's SMX1000RT2U intelligent, line interactive rack/tower uninterruptible power supply prevents data loss, downtime and equipment damage due to power outages, voltage fluctuations and transient surges. Requires only two rack spaces (2U) in a standard rack enclosure, with included accessories for upright tower placement. Maintains regulated 230V nominal output without using battery power during brownouts and overvoltages from 159 to 282V. 1000VA/700 watt power handling capability and full time sine wave output offers guaranteed compatibility with networking, telecom and other sensitive electronic applications. Includes a total of 6 outlets with 2 load banks that are individually controllable via software interface to reboot select equipment on demand or shed less significant loads to extend battery runtime for more critical equipment. Supports remote monitoring of UPS and site power conditions via built-in USB and DB9 monitoring ports. Includes PowerAlert UPS monitoring and unattended shutdown software with complete cabling. Built-in accessory slot supports SNMP with optional SNMPWEBCARD adapter. Emergency Power Off (EPO) interface offers option for instantaneous power-off of UPS and connected equipment in the case of fire or emergency situation. Multi-function audible alarms and set of 5 front panel LEDs offer at-a-glance notification of UPS and line power status. Network-grade AC surge suppression protects equipment from damage and performance problems resulting from transient surges and line noise. Attractive all-black color scheme.

### Features

- SMX1000RT2U line interactive UPS offers battery derived sine wave AC output during power outages, voltage regulation during brownouts and overvoltages, plus network-grade AC surge suppression
- 1000VA/700 watt power handling capability with full-time sine wave output offers guaranteed compatibility with networking, telecom and other sensitive electronic devices
- Supports 2U rackmount installation in 4 post rack enclosures, upright tower placement also supported (2 post installation supported with optional 2POSTRMKITWM accessory)
- Large internal batteries offer runtimes of 17 minutes at half load (500VA/350 watts) and 7 minutes at full load (1000VA/700 watts)
- Maintains regulated 230V nominal output during brownouts and overvoltages from 159 to 282V
- Includes 6 UPS-supported outlets with 2 individually controllable load banks (2 outlets per bank) that can be powered off and back on again via software

### Highlights

- 1kVA / 1000VA line interactive 2U rack/tower UPS; Sine wave output
- 230V nominal output during brownouts to 159 and overvoltages to 282V
- USB, RS232, EPO and optional SNMP/Web card interface
- Detailed status LEDs; 2 switched output load banks
- C14 inlet; 6 C13 outlets; Includes 2 C13 to C14 cables

### Package Includes

- UPS System with 4 post rackmount hardware
- Two 1.8m IEC320-C13 to C14 load jumper cables
- Cabling for USB & DB9 monitoring and EPO switching
- PowerAlert unattended shutdown and UPS/Power monitoring software
- Warranty information and instruction manual



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interface

- C14 inlet accepts user-supplied AC power cord with country specific plug
- PowerAlert UPS monitoring and unattended shutdown software enables configurable network broadcast messaging, email notification, event logging and running user-defined script commands.
- Offers simultaneous monitoring by up to 2 directly-connected devices through included USB and DB9 interface ports, or the monitoring by any number of additional servers over IP with included PowerAlert monitoring software.
- Communications ports support messaging of UPS and line power status, including on-battery, low-battery, power restored, AC line voltage, DC battery voltage and remaining battery capacity
- Supports timed inverter shutoff after unattended shutdown, activate self-test and UPS output power control for delayed or immediate reboot of connected devices
- Supports Tripp Lite's 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)
- Built-in accessory slot supports SNMP with optional SNMPWEBCARD adapter
- Emergency Power Off (EPO) interface with cable
- Multi-function audible alarms and set of 5 front panel LEDs
- Network-grade AC surge suppression
- Attractive all-black color scheme
- UPS battery set ships fully assembled, no time consuming connection of internal batteries by user is necessary
- Optional PDUBHV10 bypass PDU enables hot-swappable UPS replacement with no disruption to connected equipment

## Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	1000
Output kVA capacity (kVA)	1
Output Watt Capacity (watts)	700
Output power factor	0.7
Nominal Output Voltage(s) Supported	220V; 230V; 240V
Nominal Voltage details	230v nominal inverter output voltage
Frequency compatibility	50 / 60 Hz
Output voltage regulation (line mode)	-17%, +8%
Output voltage regulation (Battery mode)	+/- 5%
Built-in UPS output receptacles	6 C13 outlet(s)
Included output power cables	Includes 2 C13 to C14 output power cables
Built-in controllable switched load banks	Two switchable two-outlet C13 load banks
Hot-Swap PDU options	PDUBHV10 (2U / 8 C13 outlets)
Output AC waveform (AC mode)	Sine wave



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Output AC waveform (battery mode)	Pure Sine wave
<b>INPUT</b>	
Rated input current (at maximum load)	3.4A
Nominal Input Voltage(s) Supported	230V AC
UPS input connection type	C14 inlet
UPS input connection description	C14 inlet accepts user-supplied AC power cord with country specific plug.
Input circuit breaker	10A
Phase	Single-Phase
<b>BATTERY</b>	
Full load runtime (minutes)	9 min. (700w)
Half load runtime (minutes)	21 min. (350w)
DC system voltage (VDC)	24
Battery recharge rate (included batteries)	4.5 hours from 10% to 90%
Replacement battery cartridge (internal UPS battery replacement)	See Tripp Lite UPS replacement battery selector
Battery Access	Front panel battery access door
Battery replacement description	Hot-swappable, user replaceable batteries
<b>VOLTAGE REGULATION</b>	
Voltage regulation description	Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 159 to 282
Overvoltage correction	Input voltages between 245 and 282 are reduced by 12%
Undervoltage correction	Input voltages between 159 and 199 are boosted by 14%
<b>LEDS ALARMS &amp; SWITCHES</b>	
LED Indicators	5 LEDs indicate line power, battery power, overload, voltage regulation and battery low/replace status
Alarms	Audible alarm indicates power-failure, overload and low-battery conditions
Alarm cancel operation	Power-fail alarm can be silenced using alarm-cancel switch; once silenced, alarm will re-sound to indicate low-battery status
Switches	2 Switches control off/on power status and alarm-cancel/self-test operation
<b>SURGE / NOISE SUPPRESSION</b>	
UPS AC suppression joule rating	480
UPS AC suppression response time	Instantaneous
EMI / RFI AC noise suppression	Yes



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<b>PHYSICAL</b>	
Installation form factors supported with optional accessories	2 post rackmount (2POSTRMKITWM); Wallmount (2POSTRMKITWM); Tower (2-9USTAND)
Primary form factor	Rackmount
UPS / Power Module dimensions in primary form factor (height x width x depth / inches)	3.5 x 17.5 x 13.5
UPS / Power Module dimensions in primary form factor (height x width x depth / cm)	8.9 x 44.4 x 34.3
Rack Height	2U
Secondary form factor	Tower (requires 2-9USTAND)
UPS / Power Module weight (lbs)	34
UPS / Power Module weight (kg)	15.4
UPS Shipping dimensions (height x width x depth / inches)	9 x 24 x 20.2
UPS Shipping dimensions (height x width x depth / cm)	22.9 x 61 x 51.4
Shipping weight (lbs)	36
Shipping weight (kg)	16.3
Cooling method	Fan
UPS housing material	Steel
<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)	73.6
Battery mode BTU / hr. (full load)	522.4
AC mode efficiency rating (100% load)	97%
<b>COMMUNICATIONS</b>	
Communications interface	USB; DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface
Network monitoring port description	Supports detailed monitoring of UPS and site power conditions
PowerAlert software	Included
Communications cable	USB and DB9 cabling included
WatchDog compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications



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<b>LINE / BATTERY TRANSFER</b>	
Transfer time	2-4 milliseconds
Low voltage transfer to battery power (setpoint)	159
High voltage transfer to battery power (setpoint)	282
<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 & high efficiency features	Greater than 95% efficiency - GREEN UPS; Individually controllable load banks
<b>CERTIFICATIONS</b>	
UPS Certifications	Tested to UL1778 (USA); CE; Tested to GOST (Russia); Tested to SASO (Saudi Arabia); Tested to IRAM (Argentina); Meets FCC Part 15 Category B (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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## SmartPro 1.5kVA 1350W Line Interactive Sine Wave UPS, Extended-run & SNMPWEBCARD options, 2U Rack/Tower, LCD, USB, RS232, EPO, 230V

MODEL NUMBER: **SMX1500XLRT2U**



### Description

Tripp Lite SmartPro Line Interactive UPS with enhanced LCD interface offers network-grade power protection for critical server, network and telecommunications equipment. Line Interactive Uninterruptible Power Supply (UPS) with built-in Auto-Voltage Regulation (AVR) actively corrects brownouts and overvoltages back to usable levels while maintaining a full battery charge in case of power failure. Tripp Lite's unique configuration excels in exceptionally poor-power environments with two separate levels of voltage boost to correct both slight undervoltages and severe brownout conditions. Interactive LCD interface reports UPS operating mode, detailed UPS and site-power data, plus enables a variety of UPS setup and configuration options. Super-fast switchover from line to battery power occurs within milliseconds to maintain operation of connected equipment without interruption or reboot. 97% line-mode efficiency offers reduced heat emissions and operating costs. Network management interfaces support communications via USB, RS-232 and optional SNMPWEBCARD network interface. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. Network communications ports enable detailed monitoring of equipment load levels, self-test data and utility power conditions. Includes PowerAlert monitoring software and complete cabling. Switched output load banks enable scheduled and real-time remote reboot and load shedding of select outlets. Emergency Power Off (EPO) interface. LCD display panel easily rotates for viewing in rackmount or tower configurations. Audible alarm with push-button momentary alarm-cancel and silent-mode configuration options. Programmable self-test. Field-replaceable, hot-swappable battery modules.

### Features

- Tripp Lite SMX1500XLRT2U line interactive 2U rack/tower UPS with 1500VA / 1.5kVA capacity and extended runtime options
- Line interactive UPS with Automatic Voltage Regulation (AVR) corrects brownouts and overvoltages from 158 to 278V
- C14 AC power inlet; 8 C13 output receptacles, Two independently switchable output load banks
- Maintains uninterrupted operation of connected networking equipment during blackouts, surges, brownouts and overvoltages
- High 97% efficiency rating in line-power mode offers reduced power consumption and BTU emissions
- Internal batteries offer 13.6 minutes at 50% load (675W) and 4.9 minutes at 100% load (1350W)
- Extended runtime is available with optional BP36V15-2U (limit 1), BP36V42-3U (multi-pack compatible) and BP36V27-2US (multi-pack compatible) external battery packs

### Highlights

- 1.5kVA / 1500VA / 1350W line interactive 2U rack/tower UPS, Sine Wave
- 230V output, Corrects brownouts and overvoltages from 158V to 278V
- 0.9 Power Factor, Interactive LCD interface
- Extended runtime options up to 1200W
- 4 post compatible mounting accessories
- 97% line-mode efficiency, 2 switched load banks
- USB, RS232, EPO and slot for SNMPWEBCARD option
- 230V C14 inlet, 8 C13 outlets

### Package Includes

- SMX1500XLRT2U UPS System
- PowerAlert Software with USB, Serial & EPO cabling
- 4 post rackmount installation kit
- Set of 2 C13/C14 power cables
- Instruction manual





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- External battery configurations require the use of Tripp Lite's External Battery Configuration Software (see manual)
- Hot-swappable, user-replaceable internal batteries and external battery packs can be replaced with no disruption to connected equipment
- Front panel LCD monitoring screen with MODE and ENTER buttons reports operating mode with 5-bar battery charge graphic, plus 7 selectable screens of detailed UPS and site power information
- LCD interface also supports a number of advanced user setup and operating preferences
- Ships with 4 post rackmount installation hardware; Optional 2POSTRMKITWM enables 2 post rackmount/wallmount installation; Optional 2-9USTAND enables tower placement
- Built-in USB, RS-232 and optional SNMPWEBCARD accessory monitoring options
- HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X
- Included PowerAlert UPS monitoring software; Built-in Emergency Power Off (EPO) interface with cable
- Optional PDUBHV10 bypass PDU enables hot-swappable UPS replacement with no disruption to connected equipment

## Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	1500
Output kVA capacity (kVA)	1.5
Output Watt Capacity (watts)	1350
Output kW capacity	1.35
Output power factor	0.9
Output Capacity Details	Output derates to 1200 watts in all external battery configurations
Nominal Output Voltage(s) Supported	220V; 230V; 240V
Nominal Voltage details	230v nominal inverter output voltage
Frequency compatibility	50 / 60 Hz
Output voltage regulation (line mode)	+6% / -15%
Output voltage regulation (Battery mode)	+/- 5%
Built-in UPS output receptacles	8 C13 outlet(s)
Included output power cables	Set of 2 C13 to C14 power cables included
Built-in controllable switched load banks	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
INPUT	
Rated input current (at maximum load)	6.9A



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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 breaker	10A
Phase	Single-Phase
<b>BATTERY</b>	
Full load runtime (minutes)	4.9 min. (1350w)
Half load runtime (minutes)	13.6 min. (675w)
Expandable battery runtime	Extended runtime supported via optional external battery packs
External battery pack compatibility	BP36V15-2U (limit 1); BP36V42-3U (multi-pack compatible); BP36V27-2US (multi-pack compatible)
DC system voltage (VDC)	36
Battery recharge rate (included batteries)	Less than 4.5 hours from 10% to 90%
Replacement battery cartridge (internal UPS battery replacement)	RBC93-2U
Battery Access	Front panel battery access door
Battery replacement description	Hot-swappable, user replaceable batteries
<b>VOLTAGE REGULATION</b>	
Voltage regulation description	Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 158 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%
Severe undervoltage correction	Input voltages between 158 and 182 are boosted by 24%
<b>LEDS ALARMS &amp; SWITCHES</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)
Alarms	Audible alarm indicates UPS startup, power-failure, low-battery, overload, UPS fault and remote shutdown conditions
Alarm cancel operation	Power-fail alarm can be temporarily silenced using alarm-cancel switch; silent mode alarm configuration option available
Switches	3 pushbutton switches control OFF / ON power status, MODE selection and MUTE / ENTER control functions
<b>SURGE / NOISE SUPPRESSION</b>	
UPS AC suppression joule rating	350
UPS AC suppression response time	Instantaneous
EMI / RFI AC noise suppression	Yes





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<b>PHYSICAL</b>	
Installation form factors supported with optional accessories	2 post rackmount (2POSTRMKITWM); Wallmount (2POSTRMKITWM); Tower (2-9USTAND); 2-4 post front rail rackmount (UPSHDEARKIT)
Primary form factor	Rackmount
UPS / Power Module dimensions in primary form factor (height x width x depth / inches)	3.5 x 17.5 x 13.5
UPS / Power Module dimensions in primary form factor (height x width x depth / cm)	8.9 x 44.4 x 34.3
Rack Height	2U
Secondary form factor	Tower (requires <a href="#">2-9USTAND</a> )
UPS / Power Module weight (lbs)	43.1
UPS / Power Module weight (kg)	19.6
UPS Shipping dimensions (height x width x depth / inches)	9 x 24 x 20.5
UPS Shipping dimensions (height x width x depth / cm)	22.9 x 61 x 52.1
Shipping weight (lbs)	66.5
Shipping weight (kg)	30.2
Cooling method	Fan
UPS housing material	Steel
<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)	139
AC mode efficiency rating (100% load)	97%
<b>COMMUNICATIONS</b>	
Communications interface	USB; DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface
Network monitoring port description	Supports detailed monitoring of UPS and site power conditions
PowerAlert software	Included
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>	



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Transfer time	6 ms. (AC to DC) / 1 ms. (DC to AC)
Low voltage transfer to battery power (setpoint)	158
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 & high efficiency features	Greater than 95% efficiency - GREEN UPS; Individually controllable load banks
<b>CERTIFICATIONS</b>	
UPS Certifications	CE; Tested to GOST (Russia)
UPS Certification details	EN62040-1, 62040-2 (Class A)
<b>WARRANTY</b>	
Product Warranty Period (Worldwide)	2-year limited warranty



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## SmartPro 2.2kVA 1920W Line Interactive Sine Wave UPS, Extended-Run & SNMPWEBCARD options, 2U Rack/Tower, LCD, USB, RS232, EPO, 230V

MODEL NUMBER: **SMX2200XLRT2U**



### Description

Tripp Lite SmartPro Line Interactive UPS with enhanced LCD interface offers network-grade power protection for critical server, network and telecommunications equipment. Line Interactive Uninterruptible Power Supply (UPS) with built-in Auto-Voltage Regulation (AVR) actively corrects brownouts and overvoltages back to usable levels while maintaining a full battery charge in case of power failure. Tripp Lite's unique configuration excels in exceptionally poor-power environments with two separate levels of voltage boost to correct both slight undervoltages and severe brownout conditions. Interactive LCD interface reports UPS operating mode, detailed UPS and site-power data, plus enables a variety of UPS setup and configuration options. Super-fast switchover from line to battery power occurs within milliseconds to maintain operation of connected equipment without interruption or reboot. 98% line-mode efficiency offers reduced heat emissions and operating costs. Network management interfaces support communications via USB, RS-232 and optional SNMPWEBCARD network interface. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. Network communications ports enable detailed monitoring of equipment load levels, self-test data and utility power conditions. Includes PowerAlert monitoring software and complete cabling. Switched output load banks enable scheduled and real-time remote reboot and load shedding of select outlets. Emergency Power Off (EPO) interface. LCD display panel easily rotates for viewing in rackmount or tower configurations. Audible alarm with push-button momentary alarm-cancel and silent-mode configuration options. Programmable self-test. Field-replaceable, hot-swappable battery modules.

### Features

- Line interactive UPS with Automatic Voltage Regulation (AVR) corrects brownouts and overvoltages from 158 to 278V
- C20 AC power inlet; 8 C13 output receptacles, Two independently switchable output load banks
- Maintains uninterrupted operation of connected networking equipment during blackouts, surges, brownouts and overvoltages
- High 98% efficiency rating in line-power mode offers reduced power consumption and BTU emissions
- Internal batteries offer 11.9 minutes at 50% load (960W) and 5 minutes at 100% load (1920W)
- Extended runtime is available with optional BP48V24-2U (limit 1), BP48V60RT3U (no limit) or BP48V27-2US (no limit) external battery packs (max output is reduced to 1600w with external battery packs connected)
- External battery configurations require the use of Tripp Lite's External Battery Configuration Software (see manual)

### Highlights

- 2.2kVA / 2200VA / 1920W line interactive 2U rack/tower UPS, Sine Wave
- 230V output, Corrects brownouts and overvoltages from 158V to 278V
- 0.9 Power Factor, Interactive LCD interface
- Extended runtime options up to 1600W
- 4 post compatible mounting accessories
- 98% line-mode efficiency, 2 switched load banks
- USB, RS232, EPO and slot for SNMPWEBCARD option
- 230V C20 inlet, 8 C13 outlets

### Package Includes

- SMX2200XLRT2U UPS system
- PowerAlert Software with USB, Serial & EPO cabling
- 4 post rackmount installation kit
- Set of 3 C13/C14 power cables
- Instruction manual



- Hot-swappable, user-replaceable internal batteries and external battery packs can be replaced with no disruption to connected equipment
- Front panel LCD monitoring screen with MODE and ENTER buttons reports operating mode with 5-bar battery charge graphic, plus 7 selectable screens of detailed UPS and site power information
- LCD interface also supports a number of advanced user setup and operating preferences
- Ships with 4 post rackmount installation hardware; Optional 2POSTRMKITWM enables 2 post rackmount/wallmount installation; Optional 2-9USTAND enables tower placement
- Built-in USB, RS-232 and optional SNMPWEBCARD accessory monitoring options
- HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X
- Included PowerAlert UPS monitoring software; Built-in Emergency Power Off (EPO) interface with cable
- Optional PDUBHV20 bypass PDU enables hot-swappable UPS replacement with no disruption to connected equipment

## Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	2200
Output kVA capacity (kVA)	2.2
Output Watt Capacity (watts)	1920
Output kW capacity	1.92
Nominal Output Voltage(s) Supported	220V; 230V; 240V
Nominal Voltage details	230V inverter output in battery mode
Frequency compatibility	50 / 60 Hz
Output voltage regulation (line mode)	-15%, +6%
Output voltage regulation (Battery mode)	+/- 5%
Built-in UPS output receptacles	8 C13 outlet(s)
Included output power cables	Includes 3 C13 to C14 output power cables
Built-in controllable switched load banks	Two switchable single-outlet C13 load banks
Hot-Swap PDU options	PDUBHV20 (2U / 6 C13, 2 C19 outlets)
Output AC waveform (AC mode)	Sine wave
Output AC waveform (battery mode)	Pure Sine wave
INPUT	
Rated input current (at maximum load)	10.7A
Nominal Input Voltage(s) Supported	230V AC
UPS input connection type	C20 inlet
UPS input connection description	IEC320-C20 input connection accepts a variety of detachable cordsets to match country or site-specific wall receptacles



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Input circuit breaker	15A
Phase	Single-Phase
<b>BATTERY</b>	
Full load runtime (minutes)	5 min. (1920w)
Half load runtime (minutes)	11.9 min. (960w)
Expandable battery runtime	Extended runtime supported via optional external battery packs
External battery pack compatibility	BP48V24-2U (limit 1); BP48V60RT-3U (multi-pack compatible); BP48V27-2US (multi-pack compatible)
DC system voltage (VDC)	48
Battery recharge rate (included batteries)	Less than 4.5 hours from 10% to 90%
Replacement battery cartridge (internal UPS battery replacement)	RBC94-2U
Battery Access	Front panel battery access door
Battery replacement description	Hot-swappable, user replaceable batteries
<b>VOLTAGE REGULATION</b>	
Voltage regulation description	Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 158 to 278
Overvoltage correction	Voltage reduction of 12% applies when input is between 244-278V
Undervoltage correction	Voltage boost of 12% applies when input voltage is between 183-206V
Severe undervoltage correction	Voltage boost of 24% applies when input voltage is between 158-182V
<b>LEDS ALARMS &amp; SWITCHES</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)
Alarms	Audible alarm indicates UPS startup, power-failure, low-battery, overload, UPS fault and remote shutdown conditions
Alarm cancel operation	Power-fail alarm can be temporarily silenced using alarm-cancel switch; silent mode alarm configuration option available
Switches	3 pushbutton switches control OFF / ON power status, MODE selection and MUTE / ENTER control functions
<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>	
Installation form factors supported with optional accessories	2 post rackmount (2POSTRMKITWM); Wallmount (2POSTRMKITWM); Tower (2-9USTAND)



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Primary form factor	Rackmount
UPS / Power Module dimensions in primary form factor (height x width x depth / inches)	3.5 x 17.5 x 19.5
UPS / Power Module dimensions in primary form factor (height x width x depth / cm)	8.9 x 44.4 x 49.5
Rack Height	2U
Secondary form factor	Tower (requires <a href="#">2-9U STAND</a> )
UPS / Power Module weight (lbs)	68.75
UPS / Power Module weight (kg)	31.2
UPS Shipping dimensions (height x width x depth / inches)	9.25 x 24.75 x 22.5
UPS Shipping dimensions (height x width x depth / cm)	23.5 x 62.9 x 57.2
Shipping weight (lbs)	82.3
Shipping weight (kg)	37.3
Cooling method	Fan
UPS housing material	Steel
<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)	161
AC mode efficiency rating (100% load)	98%
<b>COMMUNICATIONS</b>	
Communications interface	USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface
Network monitoring port description	Supports detailed monitoring of UPS and site power conditions
PowerAlert software	Included
Communications cable	USB, DB9 and EPO cabling included
WatchDog compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
<b>LINE / BATTERY TRANSFER</b>	
Transfer time	6 ms. (AC to DC) / 1 ms. (DC to AC)
Low voltage transfer to battery power (setpoint)	158V





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## SmartPro 3kVA 2700W Line Interactive Sine Wave UPS, Extended-Run & SNMPWEBCARD options, 2U Rack/Tower, LCD, USB, RS232, EPO, 230V

MODEL NUMBER: **SMX3000XLRT2UA**



### Description

Tripp Lite SmartPro Line Interactive UPS with enhanced LCD interface offers network-grade power protection for critical server, network and telecommunications equipment. Line Interactive Uninterruptible Power Supply (UPS) with built-in Auto-Voltage Regulation (AVR) actively corrects brownouts and overvoltages back to usable levels while maintaining a full battery charge in case of power failure. Tripp Lite's unique configuration excels in exceptionally poor-power environments with two separate levels of voltage boost to correct both slight undervoltages and severe brownout conditions. Interactive LCD interface reports UPS operating mode, detailed UPS and site-power data, plus enables a variety of UPS setup and configuration options. Super-fast switchover from line to battery power occurs within milliseconds to maintain operation of connected equipment without interruption or reboot. 98% line-mode efficiency offers reduced heat emissions and operating costs. Network management interfaces support communications via USB, RS-232 and optional SNMPWEBCARD network interface. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. Network communications ports enable detailed monitoring of equipment load levels, self-test data and utility power conditions. Includes PowerAlert monitoring software and complete cabling. Switched output load banks enable scheduled and real-time remote reboot and load shedding of select outlets. Emergency Power Off (EPO) interface. LCD display panel easily rotates for viewing in rackmount or tower configurations. Audible alarm with push-button momentary alarm-cancel and silent-mode configuration options. Programmable self-test. Field-replaceable, hot-swappable battery modules.

### Features

- Tripp Lite SMX3000XLRT2UA line interactive 2U rack/tower UPS with 3000VA / 3kVA capacity and extended runtime options
- Line interactive UPS with Automatic Voltage Regulation (AVR) corrects brownouts and overvoltages from 158 to 278V
- C20 AC power inlet; 8 C13 and 1 C19 output receptacles, Two independently switchable output load banks
- Maintains uninterrupted operation of connected networking equipment during blackouts, surges, brownouts and overvoltages
- High 98% efficiency rating in line-power mode offers reduced power consumption and BTU emissions
- Internal batteries offer 11.1 minutes at 50% load (1350W) and 3.9 minutes at 100% load (2700W)

### Highlights

- 3kVA / 3000VA / 2700W line interactive 2U rack/tower UPS, Sine Wave
- 230V output, Corrects brownouts and overvoltages from 158V to 278V
- 0.9 Power Factor, Interactive LCD interface
- Extended runtime options up to 2700W
- 4 post compatible mounting accessories
- 98% line-mode efficiency, 2 switched load banks
- USB, RS232, EPO and slot for SNMPWEBCARD option
- 230V C20 inlet, 8 C13 & 1 C19 outlets

### Applications

Ideal for server, networking and telecommunications equipment

### Package Includes

- SMX3000XLRT2UA UPS system
- PowerAlert Software with USB, Serial & EPO cabling
- 4 post rackmount installation kit
- Set of 3 C13/C14 power cables
- Instruction manual



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- Extended runtime is available with optional external battery packs BP48V24-2U (limit 1), BP48V60RT-3U (multi-pack compatible) and BP48V27-2US (multi-pack compatible)
- External battery configurations require the use of Tripp Lite's External Battery Configuration Software (see manual)
- Hot-swappable, user-replaceable internal batteries and external battery packs can be replaced with no disruption to connected equipment
- Front panel LCD monitoring screen with MODE and ENTER buttons reports operating mode with 5-bar battery charge graphic, plus 7 selectable screens of detailed UPS and site power information
- LCD interface also supports a number of advanced user setup and operating preferences
- Ships with 4 post rackmount installation hardware; Optional 2POSTRMKITWM enables 2 post rackmount/wallmount installation; Optional 2-9USTAND enables tower placement
- Built-in USB, RS-232 and optional SNMPWEBCARD accessory monitoring options
- HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X
- Included PowerAlert UPS monitoring software; Built-in Emergency Power Off (EPO) interface with cable

## Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	3000
Output kVA capacity (kVA)	3
Output Watt Capacity (watts)	2700
Output kW capacity	2.7
Output power factor	.9
Nominal Output Voltage(s) Supported	220V; 230V; 240V
Nominal Voltage details	230v nominal inverter output voltage
Frequency compatibility	50 / 60 Hz
Output voltage regulation (line mode)	+6%, -15%
Output voltage regulation (Battery mode)	+/-5%
Built-in UPS output receptacles	8 C13 outlet(s); 1 C19 outlet(s)
Included output power cables	Set of 3 C13 to C14 power cables included
Built-in controllable switched load banks	Two switchable single outlet C13 load banks
Output AC waveform (AC mode)	Pure Sine wave
Output AC waveform (battery mode)	Pure Sine wave
INPUT	
Rated input current (at maximum load)	14.1A
Nominal Input Voltage(s) Supported	230V AC
UPS input connection type	C20 inlet



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UPS input connection description	IEC320-C20 input connection accepts a variety of user supplied detachable C19 output cordsets to match country or site specific power sources
Input circuit breaker	20A
Phase	Single-Phase
<b>BATTERY</b>	
Full load runtime (minutes)	3.9 min. (2700w)
Half load runtime (minutes)	11.1 min. (1350w)
Expandable battery runtime	Extended runtime supported via optional external battery packs
External battery pack compatibility	BP48V24-2U (limit 1); BP48V60RT-3U (multi-pack compatible); BP48V27-2US (multi-pack compatible)
DC system voltage (VDC)	48
Battery recharge rate (included batteries)	Less than 5 hours from 10 to 90%
Replacement battery cartridge (internal UPS battery replacement)	RBC58-2U
Battery Access	Front panel battery access door
Battery replacement description	Hot-swappable, replaceable batteries
<b>VOLTAGE REGULATION</b>	
Voltage regulation description	Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 158 to 278
Overvoltage correction	Input voltages between 244 and 278 are reduced by 12%
Undervoltage correction	Input voltages between 206 and 183 are boosted by 12%
Severe undervoltage correction	Input voltages between 158 and 183 are boosted by 24%
<b>LEDS ALARMS &amp; SWITCHES</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)
Alarms	Audible alarm indicates UPS startup, power-failure, low-battery, overload, UPS fault and remote shutdown conditions
Alarm cancel operation	Power-fail alarm can be temporarily silenced using alarm-cancel switch; silent mode alarm configuration option available
Switches	3 pushbutton switches control OFF / ON power status, MODE selection and MUTE / ENTER control functions
<b>SURGE / NOISE SUPPRESSION</b>	
UPS AC suppression joule rating	350
EMI / RFI AC noise suppression	Yes
AC suppression response time	Instantaneous
<b>PHYSICAL</b>	



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Installation form factors supported with optional accessories	2 post rackmount (2POSTRMKITWM); Wallmount (2POSTRMKITWM); Tower (2-9USTAND)
Primary form factor	Rackmount
UPS / Power Module dimensions in primary form factor (height x width x depth / inches)	3.5 x 17.5 x 19.5
UPS / Power Module dimensions in primary form factor (height x width x depth / cm)	8.9 x 44.4 x 49.5
Rack Height	2U
Secondary form factor	Tower (requires <a href="#">2-9USTAND</a> )
UPS / Power Module weight (lbs)	62.8
UPS / Power Module weight (kg)	28.5
UPS Shipping dimensions (height x width x depth / inches)	9 x 23.75 x 20.5
UPS Shipping dimensions (height x width x depth / cm)	22.9 x 60.3 x 52.1
Shipping weight (lbs)	72.6
Shipping weight (kg)	33
Cooling method	Fan
UPS housing material	Steel
<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)	158
AC mode efficiency rating (100% load)	98%
<b>COMMUNICATIONS</b>	
Communications interface	USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface
Network monitoring port description	Supports detailed monitoring of UPS and site power conditions
PowerAlert software	Included
Communications cable	USB, DB9 and EPO cabling included
WatchDog compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
<b>LINE / BATTERY TRANSFER</b>	
Transfer time	6 milliseconds (AC to battery mode), 1 millisecond (Battery to AC mode)



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Low voltage transfer to battery power (setpoint)	158
High voltage transfer to battery power (setpoint)	278
<b>SPECIAL FEATURES</b>	
Cold Start (startup in battery mode during a power failure)	Cold-start operation supported
High availability UPS features	Hot swappable batteries
Green & high efficiency features	Greater than 95% efficiency - GREEN UPS; Individually controllable load banks; Schedulable daily hours of economy mode operation
<b>CERTIFICATIONS</b>	
UPS Certifications	CE; ROHS (Restriction of Hazardous Substances)
UPS Certification details	IEC 62040-1, IEC 62040-2 Class A EMI, GOST
<b>WARRANTY</b>	
Product Warranty Period (Worldwide)	2-year limited warranty



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## SmartPro 5kVA Line Interactive Sine Wave UPS, Extended-run & SNMPWEBCARD options, 3U Rack/Tower, USB, Serial, EPO, 230V

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 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 SNMPWEBCARD slot. Supports simultaneous detailed monitoring of equipment load levels, self-test data and utility power conditions via all 3 network interfaces at once. Includes PowerAlert monitoring software and complete cabling. 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 2POSTRMKITWM 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 SNMPWEBCARD slot
- Included PowerAlert UPS monitoring software supports safe unattended shutdown, monitoring and control via local connected servers, plus any number of additional servers over IP
- Communications ports support on-battery, low-battery, power-restored, AC-voltage, DC-voltage, output current monitoring, battery charge current, battery

### Highlights

- 5kVA / 5000VA line interactive 3U rack/tower UPS; Sine wave output
- 230V nominal output during brownouts to 170V and overvoltages to 282V
- USB, Serial, EPO & optional SNMP/Web card monitoring options
- 3U all-in-one chassis; 98% efficiency
- Hardwire input; 8 C13 & 3 C19 outlets

### Package Includes

- SMX5000XLRT3U UPS system
- PowerAlert Software and Cabling
- Mounting hardware for 4 post rackmount installation
- Warranty information
- Instruction manual





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capacity, internal UPS temperature, AC line frequency, timed inverter shutoff and activate self-test

- 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 27/10 minutes with internal batteries
- 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 2 post rackmount installation with optional 2POSTRMKIT accessory
- Supports upright tower placement with optional 2-9USTAND accessory
- CE, GOST, SASO listed

## Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	5000
Output kVA capacity (kVA)	5
Output Watt Capacity (watts)	3750
Output kW capacity	3.75
Output power factor	0.75
Nominal Output Voltage(s) Supported	220V; 230V; 240V
Nominal Voltage details	230v nominal inverter output voltage
Frequency compatibility	50 / 60 Hz
Output voltage regulation (line mode)	-17%, +8%
Output voltage regulation (Battery mode)	+/- 5%
Built-in UPS output receptacles	8 C13 outlet(s); 3 C19 outlet(s)
Included output power cables	Includes 3 C13 to C14 output power cables
Output circuit breaker	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
INPUT	
Rated input current (at maximum load)	27A



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Nominal Input Voltage(s) Supported	230V AC
UPS input connection type	Hardwire
Phase	Single-Phase
<b>BATTERY</b>	
Full load runtime (minutes)	8.5 min. (3750w)
Half load runtime (minutes)	20 min. (1875w)
Expandable battery runtime	Extended runtime supported via optional external battery packs
External battery pack compatibility	BP48V24-2U (limit 1); BP48V60RT-3U (multi-pack compatible); BP48V27-2US (multi-pack compatible)
DC system voltage (VDC)	48
Battery recharge rate (included batteries)	Less than 4 hours from 10% to 90%
Replacement battery cartridge (internal UPS battery replacement)	RBC94-3U (quantity 3)
Battery Access	Front panel battery access door
Battery replacement description	Hot-swappable, user replaceable batteries
<b>VOLTAGE REGULATION</b>	
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%
<b>LEDS ALARMS &amp; SWITCHES</b>	
LED Indicators	5 LEDs indicate line power, battery power, overload, voltage regulation and battery low/replace status
Alarms	Audible alarm indicates power-failure, overload and low-battery conditions
Alarm cancel operation	Power-fail alarm can be silenced using alarm-cancel switch; once silenced, alarm will re-sound to indicate low-battery status
Switches	2 Switches control off/on power status and alarm-cancel/self-test operation
<b>SURGE / NOISE SUPPRESSION</b>	
UPS AC suppression joule rating	480
UPS AC suppression response time	Instantaneous
EMI / RFI AC noise suppression	Yes
<b>PHYSICAL</b>	
Installation form factors supported with optional accessories	2 post rackmount (2POSTRMKITWM); Tower (2-9USTAND)
Primary form factor	Rackmount



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UPS / Power Module dimensions in primary form factor (height x width x depth / inches)	5.2 x 17.5 x 25
UPS / Power Module dimensions in primary form factor (height x width x depth / cm)	13.3 x 44.4 x 63.5
Rack Height	3U
Secondary form factor	Tower (requires <a href="#">2-9U STAND</a> )
UPS / Power Module weight (lbs)	143
UPS / Power Module weight (kg)	64.9
UPS Shipping dimensions (height x width x depth / inches)	11.3 x 23 x 31.5
UPS Shipping dimensions (height x width x depth / cm)	28.6 x 58.4 x 80
Shipping weight (lbs)	182
Shipping weight (kg)	82.6
Cooling method	Fans
UPS housing material	Steel
<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)	271
AC mode efficiency rating (100% load)	98%
<b>COMMUNICATIONS</b>	
Communications interface	USB; DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface
Network monitoring port description	Supports detailed monitoring of UPS and site power conditions
PowerAlert software	Included
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)	170
High voltage transfer to battery power (setpoint)	282



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<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 & high efficiency features	Greater than 95% efficiency - GREEN UPS
<b>CERTIFICATIONS</b>	
UPS Certifications	CE
UPS Certification details	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