

## SmartPro 230V 2.2kVA 1.92kW Line-Interactive Sine Wave UPS, Extended Run, SNMP, Webcard, 2U Rack/Tower, LCD, USB, DB9 Serial

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 C-13/C-14 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 (kW)	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%
Output Receptacles	(8) C13
Included Output Power Cables	Includes 3 C13 to C14 output power cables
Load Management Receptacles	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 (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



Input Circuit Breakers	15A
Input Phase	Single-Phase
<b>BATTERY</b>	
Full Load Runtime (min.)	5 min. (1920w)
Half Load Runtime (min.)	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% (typical, full load discharge)
Internal UPS Replacement Battery Cartridge	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>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
<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>	
Included Mounting Accessory Description	4 post rackmount installation accessories included



Installation Form Factors Supported with Optional Accessories	2 post rackmount (2POSTRMKITWM); Wallmount (2POSTRMKITWM); Tower (2-9USTAND)
Primary Form Factor	Rackmount
UPS Power Module Dimensions (hwd, in.)	3.5 x 17.5 x 19.5
UPS Power Module Dimensions (hwd, cm)	8.9 x 44.4 x 49.5
Rack Height (U Spaces)	2
UPS Power Module Weight (lbs.)	68.75
UPS Power Module Weight (kg)	31.2
UPS Shipping Dimensions (hwd / in.)	9.25 x 24.75 x 22.5
UPS Shipping Dimensions (hwd / 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
High Voltage Transfer to Battery Power (Setpoint)	278V



<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
UPS Certification Details	IEC 62040-1, IEC 62040-2 Class A EMI, GOST
<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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