



Tripp Lite
1111 West 35th Street
Chicago, IL 60609 USA
Telephone: +(773) 869 1234
E-mail: saleshelp@tripplite.com

Model #: SMX2200XLRT2U

SmartPro 2.2kVA Line Interactive Sine Wave UPS, Extended-run & SNMPWEBCARD options, Tower, USB, Serial, EPO, 230V

Highlights

- 2.2kVA / 2200VA line interactive 2U rack / tower UPS; Sine wave output
- 230V nominal output during brownouts to 158V and overvoltages to 278V
- USB, RS232, EPO & optional SNMP/Web card interface
- Front panel status LEDs with load level and battery capacity display
- Expandable runtime; 3 switched output load banks
- C20 inlet; 8 C13 outlets; Includes 3 C13 to C14 cables



Description

Tripp Lite's SMX2200XLRT2U 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. Large internal batteries offer 17 min. half-load runtime and 6 min. at full load. Runtime is expandable with optional BP48V24-2U or BP48V60RT-3U external battery packs. Maintains regulated 230V nominal output without using battery power during brownouts and overvoltages from 158-278V. 2200VA/1600W power handling capability and full-time sine wave output offers guaranteed compatibility with networking, telecom and other sensitive electronic applications. 8 C13 outlets including 3 load banks (1 outlet each) that are individually switchable via software interface to reboot select equipment on demand or shed less significant loads to extend battery runtime for more critical equipment. Supports simultaneous remote monitoring of UPS and site power conditions via built-in USB and DB9 monitoring ports. HID-compliant USB interface enables full integration with built-in power management and auto shutdown features of Windows and Mac OS X. 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 case of fire or emergency. Multi-function audible alarms and 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.

Package Includes

- SMX2200XLRT2U UPS System
- PowerAlert Software CD and cabling
- EPO cabling
- 3 IEC320 C13-to-C14 jumper cables
- Owner's manual with warranty information

Features

- 2200VA/1600W output power capacity compatible with 230V 50/60Hz power
- 2U rack/tower UPS installs in standard 19-in. rack enclosures with an installed depth of only 19 in.
- Protects sensitive networking equipment from blackouts, voltage fluctuations and transient surges
- Large internal batteries offer 17 min. runtime at half load (1100VA) and 6 min. at full load (2200VA)
- Runtime is expandable with external battery packs (BP48V24-2U—limit 1 or BP48V60RT-3U—multi-pack compatible)
- 8 C13 outlets, including 3 load banks (1 outlet each) that are individually switchable via software interface to reboot select equipment on demand or shed less significant loads to extend battery runtime for more critical equipment
- IEC320-C20 input connection accepts a variety of detachable cordsets to match country or site-specific wall receptacles
- Line-interactive automatic voltage regulation (AVR) corrects inputs from 158-278VAC back to usable 230V nominal levels without consuming battery power
- Network interfaces support simultaneous communications via HID-compliant USB port, DB9 serial port, 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

- HID-compliant USB interface enables full integration with built-in power management and auto shutdown features of Windows and Mac OS X
- Emergency Power Off (EPO) interface with cable
- Built-in accessory slot supports SNMP with optional SNMPWEBCARD adapter
- Multi-function audible alarms and set of 5 front panel LEDs
- UPS battery set ships fully assembled; no time-consuming connection of internal batteries by user is required

Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	2200
Output kVA capacity (kVA)	2.2
Output Watt Capacity (watts)	1600
Output kW capacity	1.6
Output power factor	0.7
Nominal Output Voltage(s) Supported	230V
Frequency compatibility	50 / 60 Hz
Output voltage regulation (line mode)	-15%, +8%
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	Three switchable single-outlet C13 load banks
Output AC waveform (AC mode)	Sine wave
Output AC waveform (battery mode)	Pure Sine wave
INPUT	
Rated input current (at maximum load)	8.0A
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 breaker	15A
BATTERY	
Full load runtime (minutes)	6 min. (1600w)

Half load runtime (minutes)	17 min. (800w)
Expandable battery runtime	Extended runtime supported via optional external battery packs
External battery pack compatibility	BP48V24-2U (limit 1); BP48V60RT-3U (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
VOLTAGE REGULATION	
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
LEDS ALARMS & SWITCHES	
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; rear panel protected switches support low/high charger settings
SURGE / NOISE SUPPRESSION	
UPS AC suppression joule rating	350
UPS AC suppression response time	Instantaneous
EMI / RFI AC noise suppression	Yes
PHYSICAL	
Installation form factors supported with included accessories	4 post 19 inch rackmount (mounting rail kit 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 in primary form factor (height x width x depth / inches)	3.5 x 17.5 x 19
UPS / Power Module dimensions in primary form factor (height x width x depth / cm)	8.9 x 44.4 x 48.3
Rack Height	2U
Secondary form factor	Tower (requires 2-9U STAND)
UPS / Power Module weight (lbs)	61
UPS / Power Module weight (kg)	27.7
UPS Shipping dimensions (height x width x depth / inches)	9 x 23.5 x 20
UPS Shipping dimensions (height x width x depth / cm)	22.9 x 59.7 x 50.8
Shipping weight (lbs)	72
Shipping weight (kg)	32.7
Cooling method	Fan
UPS housing material	Steel
ENVIRONMENTAL	
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)	54.9
Battery mode BTU / hr. (full load)	538
COMMUNICATIONS	
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 and DB9 cabling included
WatchDog compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
LINE / BATTERY TRANSFER	
Transfer time	2-4 milliseconds
Low voltage transfer to battery power (setpoint)	158V

High voltage transfer to battery power (setpoint)	278V
SPECIAL FEATURES	
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
CERTIFICATIONS	
UPS Certifications	CE; Tested to GOST (Russia); Tested to SASO (Saudi Arabia); Meets FCC Part 15 Category A (EMI)
UPS Certification details	CE / IEC 62040, TUV with GS mark
WARRANTY	
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

Related Items

Optional Products

Related Model	Description	Qty.
BP48V24-2U	BP48V242U - External Battery Pack for UPS System	1
BP48V60RT-3U	External Battery Pack and Cable. 3U, Expandable, Blue 2-Point Connector	1
DCATV	Network Surge Suppressor - Essential protection for TV/VCR coaxial lines	1
DNET1	Network Surge Suppressor - Essential protection for data and communication lines	1
SNMPWEBCARD	For remote monitoring and control via SNMP, Web, or Telnet.	1
DTEL2	Network Surge Suppressor - Essential protection for data and communication lines	1
ENVIROSENSE	Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.)	1
2-9USTAND	Enables Tower Placement of Rackmount UPS Systems	1
2POSTRMKITWM	Enables 2-Post Rackmount or Wallmount Installation of Select Rackmount UPS Systems	1
PDU12IEC	Basic PDU / Power Distribution Unit - Safe, reliable power distribution for critical networking equipment	1
UPSHDEARKIT	Heavy-Duty 2-post Front Mounting Ear Kit	1
U022-010	10-ft. USB2.0 A/B Gold Device Cable (A Male to B Male)	1
WATCHDOGSW	WatchDog Service Monitoring / Reboot Software	1
PDUBHV10	Single-Phase Hot-Swap PDU, 10A 200-240V, 2U Horizontal Rackmount, 8 C13 outlets, set of 2 C14 inputs	1
PDUNV	Single-Phase Basic PDU, 16A 100-240V, 1U Rackmount, C13 C19 outlets, C20 input and C14, L6-20P, L5-20P, 5-20P and 5-15P adapters	1

PDUMH15HVNET	Single-Phase Switched PDU, 10/12A 200-240V, 1U Horizontal Rackmount, 8 C13 outlets, C14 inlet with C14 power cable	1
MODBUSCARD	For remote monitoring and control via MODBUS protocol	1
P004-002-13LA	AC Power Extension Cable - C13 Left Angle to C14 - 2'	1
P004-002-13RA	AC Power Extension Cable - C13 Right Angle to C14 - 2 ft.	1
P005-002-14LA	2-ft. Heavy-Duty 14AWG Power Cord (IEC-320-C13 to Left-Angle IEC-320-C14)	1
P005-002-14RA	2-ft. Heavy-Duty 14AWG Power Cord (IEC-320-C13 to Right-Angle IEC-320-C14)	1
P005-006-14LA	6-ft. Heavy-Duty 14AWG Power Cord (IEC-320-C13 to Left-Angle IEC-320-C14)	1
P005-006-14RA	6-ft. Heavy-Duty 14AWG Power Cord (IEC-320-C13 to Right-Angle IEC-320-C14)	1
P005-010-14LA	10-ft. Heavy-Duty 14AWG Power Cord (IEC-320-C13 to Left-Angle IEC-320-C14)	1
P005-010-14RA	10-ft. Heavy-Duty 14AWG Power Cord (IEC-320-C13 to Right-Angle IEC-320-C14)	1
P005-006-BL	6-ft. Heavy-Duty 14AWG Power cord (IEC-320-C13 to IEC-320-C14) Blue Connectors	1
P005-006-GN	6-ft. Heavy-Duty 14AWG Power cord (IEC-320-C13 to IEC-320-C14) Green Connectors	1
P005-006-RD	6-ft. Heavy-Duty 14AWG Power Cord (IEC-320-C13 to IEC-320-C14) with Red Connectors	1
P005-006-YW	6-ft. Heavy-Duty 14AWG Power cord (IEC-320-C13 to IEC-320-C14) Yellow Connectors	1
P004-003-13A	3-ft. 16AWG Power Cord (IEC-320-C14 to IEC-320-C13)	1
P004-006-13A	6-ft. 16AWG Power Cord (IEC-320-C14 to IEC-320-C13)	1
P004-002-5	5-Pack of 2-ft. 18AWG Power cord (IEC-320-C14 to IEC-320-C13)	1
P018-003	3-ft. Heavy Duty 14AWG Power Cord, C14-to-C15	1
P018-006	6-ft. Heavy Duty 14AWG Power Cord, C14-to-C15	1

More information, including related products, owner's manuals, and additional technical specifications, can be found online at www.tripplite.com/en/products/model.cfm?txtModelID=3251.

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