SmartPro 230V 2200VA 1920W Line-Interactive Sine Wave UPS, 2U, Extended Run, WEBCARDLX, LCD, USB, DB9

MODEL NUMBER: **SMX2200XLRT2UN**

Offers complete line-interactive power protection for professional applications, including retail, casino and hotel management.

Features

2.2kVA/1.92kW/230V Battery Backup for PC Networks, Security Systems or Digital Signage The SmartPro® line-interactive SMX2200XLRT2UN UPS system with AVR provides reliable battery backup and AC power protection against blackouts, brownouts, overvoltages, surges and line noise that can damage valuable electronics or destroy data. The eight-outlet 230V battery backup with 0.9 power factor is ideal protection for small networks, wiring closets, security systems, telecom, high-end PC gaming, digital signage equipment and other professional applications, including retail, casino and hotel/motel management.

Reliable, Expandable Battery Backup Keeps You Operational Through Power Outages The field-replaceable, hot-swappable internal battery provides 11.9 minutes of support at half load (960W) and five minutes at full load (1920W), allowing you to work through short power failures and giving you enough time to safely save files and shut down your system in case of a prolonged blackout. For mission-critical applications demanding scalable extended runtime, the UPS supports external battery packs, such as Tripp Lite's BP48V27-2US (sold separately).

WEBCARDLX Network Interface Offers 24/7 Remote Access for Monitoring and Control The built-in WEBCARDLX with the latest version of PowerAlert Device Manager firmware (PADM20) provides enhanced remote management capabilities, including customizable dashboard graphs to fit user preferences. The PADM20 upgrade and Tripp Lite's PowerAlert Element Manager (PAEM) software form a powerful tool for expanding maintenance functions in large installations, including firmware update checks and backup and restoration of device configurations. PADM20's Auto Probe feature allows a UPS with switched loads to automatically reboot devices if a network communication failure is detected.

8 Outlets Protect Your Connected Components Eight C13 outlets provide battery backup, 350 joules of surge protection and voltage regulation for your crucial components. Two independently switched single-outlet load banks enable both scheduled and real-time remote rebooting and load shedding.

Automatic Voltage Regulation (AVR) Corrects Low- and High-Voltage ConditionsAVR protects your equipment from incremental hardware damage, data loss and performance problems caused by brownouts and overvoltages. The SMX2200XLRT2UN can correct brownouts as low as 158V and overvoltages as high as 278V back to nominal 230V power continuously, all while keeping the battery fully

Highlights

- Protects equipment against blackouts, brownouts, overvoltages, surges and line noise
- Keeps AC power running during blackouts to allow time for file saves and safe shutdown
- Maintains continuous 230V nominal output during brownouts and overvoltages
- Pre-installed WEBCARDLX with latest version of PADM20 supports Auto Probe feature
- Easy-to-read LCD allows real-time monitoring of voltage, battery status and other data

Applications

- Protect your small network server and other network components against power surges, line noise, brownouts, overvoltages and blackouts
- Operate essential equipment during short-term power outages using battery backup power
- Shut down desktop PCs and other equipment without data loss during long-term power outages
- Connect high-end security systems, casino gaming machines or digital signage in a small network

Package Includes

- SMX2200XLRT2UN 230V 2200VA 1920W Line-Interactive UPS with 8 Outlets
- WEBCARDLX network management card
- USB cable
- DB9 cable
- EPO cable
- (3) C13-to-C14 AC power cords
- Rack-mounting hardware
- Owner's manual

charged and ready to take over in case of power failure.

Premium Protection from EMI/RFI Line Noise Helps Your Equipment Perform Better This UPS system filters out disruptive electromagnetic and radio frequency interference that can inflict hardware damage or data loss. This EMI/RFI filtering also helps your connected components perform better and last longer.

Designed for High Efficiency to Help You Save Money and Protect the EnvironmentA 98% efficiency rating reduces BTU emissions, energy consumption and, ultimately, your energy costs.

Silenceable Alarm and Easy-to-Read LCD Keep You Informed Around the Clock The front-panel LCD lets you monitor important data, such as load level, power factor, voltage, battery charge and estimated runtimes. It rotates for comfortable viewing in both rack and tower configurations. The audible alarm sounds for power failure, low battery and overloads. You may silence it using the built-in switch or disable it.

Advanced Communications Ports Allow for Automatic Saves and ShutdownsRS-232 and HID-compliant USB ports connect to a computer running Tripp Lite's free downloadable PowerAlert® software to enable safe unattended file saves and system shutdown in case of a prolonged power failure. The EPO port supports emergency shutdown in large facilities. Cables are included.

Versatile Installation Options Hardware is included for mounting the Tripp Lite SmartPro UPS system in 2U of space in an EIA-standard 19-inch 4-post rack. Using optional mounting accessories (sold separately), you can adapt the SMX2200XLRT2UN for 2-post (2POSTRMKITWM), front-rail (UPSHDEARKIT), 4-post short-depth (4POSTRAILKITWM), tower (2-9USTAND) or wall mounting (2POSTRMKITWM).

Specifications

OVERVIEW	
UPC Code	037332256430
UPS Type	Line-Interactive

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

OUTPUT	
Output Volt Amp Capacity (VA)	2200
Output Capacity (kVA)	2.20
Output Watt Capacity (Watts)	1920
Output kW Capacity (kW)	1.92

Power Factor	0.87
Nominal Voltage Details	230V nominal output in battery mode
Frequency Compatibility	50 / 60 Hz
Frequency Compatibility Details	Automatic frequency selection
Output Voltage Regulation (Line Mode)	-15%, +6%
Output Voltage Regulation (Battery Mode)	+/- 5%
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
Nominal Output Voltage(s) Supported	220V; 230V; 240V
Output Receptacles	(8) C13
Individually Controllable Load Banks	Yes

BATTERY

Battery Type	Valve Regulated Lead Acid (VRLA)
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
Expandable Runtime	Yes
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)
Battery Access	Front panel battery access door
Internal UPS Replacement Battery Cartridge	RBC94-2U
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

USER INTERFACE, ALERTS & CONTROLS

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

SURGE / NOISE SUPPRESSION

UPS AC Suppression Joule Rating	350
UPS AC Suppression Response Time	Instantaneous
EMI / RFI AC Noise Suppression	Yes

PHYSICAL

Primary Form Factor	Rackmount
Cooling Method	Fan
Included Mounting Accessory Description	Included 4POSTRAILKIT mounting bracket enables installation in 4 post racks from 20.5 to 36 inches (521 to 914mm)
Installation Form Factors Supported with Included Accessories	4 post 19 inch rackmount
Installation Form Factors Supported with Optional Accessories	2 post rackmount (2POSTRMKITWM); 2-4 post front rail rackmount (UPSHDEARKIT); 4 post rackmount short-depth (4POSTRAILKITWM); Tower (2-9USTAND); Wallmount (2POSTRMKITWM)
Minimum Required Rack Depth with External Battery Pack (cm)	67
Minimum Required Rack Depth with External Battery Pack (in.)	26.5
Minimum Required Rack Depth without External Battery Pack (cm)	55
Minimum Required Rack Depth without External Battery Pack (in.)	21.75

Optional Mounting Accessory Notes	Optional 2-9USTAND enables upright tower UPS placement; 2POSTRMKITWM enables wall-mount and 2-post rackmount installation; 4POSTRAILKITWM enables installation in 4-post short-depth racks from 14.5 to 23.5 inches (368 to 597mm); UPSHDEARKIT enables installation in 2 or 4-post racks using front vertical rails only, without rear support
Primary UPS Depth (mm)	495
Primary UPS Height (mm)	89
Primary UPS Width (mm)	445
Rack Height	2U
Shipping Dimensions (hwd / in.)	8.70 x 24.20 x 21.50
Shipping Weight (kg)	36.76
UPS Housing Material	Steel
UPS Power Module Dimensions (hwd, in.)	3.50 x 17.50 x 19.50
UPS Power Module Weight (kg)	31.18
UPS Power Module Weight (lbs.)	68.75

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)	161
AC Mode Efficiency Rating (100% Load)	98%
Audible Noise	45 dBA maximum, front side 1m

COMMUNICATIONS

Network Management Cards	WEBCARDLX
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 Local software at https://www.tripplite.com/poweralert
Communications Cable	USB, DB9 and EPO cabling included
WatchDog Compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
Network Management Card Description	Network management card included
Communications Interface	DB9 Serial; EPO (emergency power off); Pre-installed network card; Slot for SNMP/Web interface; USB (HID enabled)

LINE / BATTERY TRANSFER

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

FEATURES & SPECIFICATIONS	
Grounding Lug	Back panel grounding lug
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Auto Probe Monitoring and Reboot (included); Automatic Voltage Regulation (AVR); Expandable battery backup; Hot swappable batteries; Remote management; Sine wave output; Surge/noise protection
Green Energy-Saving Features	Greater than 95% efficiency - GREEN UPS; Individually controllable load banks

STANDARDS & COMPLIANCE	
UPS Certifications	CE
Certification Details	IEC 62040-1, IEC 62040-2 Class A EMI, GOST

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