

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 SignageThe 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 OutagesThe 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 BP48V27-2US (sold separately).

WEBCARDLX Network Interface Offers 24/7 Remote Access for Monitoring and ControlThe 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 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 ComponentsEight 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 charged and ready to take over in case of power failure.

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



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Premium Protection from EMI/RFI Line Noise Helps Your Equipment Perform BetterThis 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 ClockThe 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 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 OptionsHardware is included for mounting the 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 | |
| Input Phase | Single-Phase |
| 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 |
| Maximum Input Amps | 11 |
| OUTPUT | |
| Output Capacity (VA) | 2200 |
| Output Capacity (kVA) | 2.2 |
| Output Capacity (Watts) | 1920 |
| Output Capacity (kW) | 1.92 |
| Power Factor | 0.87 |
| Nominal Voltage Details | 230V nominal output in battery mode |



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| 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) |
| Runtime Full Load (min.) | 5 min. (1920W) |
| Runtime Half Load (min.) | 11.9 min. (960W) |
| 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 | |

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| 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 | |
| EMI / RFI AC Noise Suppression | Yes |
| AC Suppression Joule Rating | 350 |
| AC Suppression Response Time | Instantaneous |
| PHYSICAL | |
| Primary Form Factor | Rackmount |
| Rack Height | 2U |
| Cooling Method | Fan |
| 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 (cm) | 58.42 |
| Minimum Required Rack Depth (inches) | 23 |
| 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 |



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| Primary UPS Width (mm) | 445 |
| 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 |
| Unit Weight (lbs.) | 68.750 |
| Unit Weight (kg) | 31.18 |
| Mounting Details | Included 4POSTRAILKIT mounting bracket enables installation in 4 post racks from 20.5 to 36 inches (521 to 914mm) |
| 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 | 0-95% 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 | 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, 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 |



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| FEATURES & SPECIFICATIONS | |
|---|---|
| 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); Hot swappable batteries; Remote management; Surge/noise protection |
| Green Energy-Saving Features | Greater than 95% efficiency - GREEN UPS; Individually controllable load banks |
| Grounding Details | Back panel grounding lug |
| APPLICATIONS | |
| UPS Applications | Large Network; High-End Desktop/Small Network |
| STANDARDS & COMPLIANCE | |
| Product Certifications | GOST (Russia) |
| 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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