

TAA SmartPro 120V 2.2kVA 1.92kW Line-Interactive Sine Wave UPS, 2U, Extended Run, Network Card Options, LCD, USB, DB9

MODEL NUMBER: **SM2200RMLX2UTAA**



Description

The SM2200RMLX2UTAA is compliant with the Federal Trade Agreements Act (TAA) for GSA Schedule purchases. 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. 96% line-mode efficiency offers reduced heat emissions and operating costs. Communications interfaces support communications via USB, DB9 serial and a slot for an optional network management card. HID-compliant USB port 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. PowerAlert UPS monitoring and auto-shutdown software is available via free download. 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

- Compliant with the Federal Trade Agreements Act (TAA) for GSA Schedule purchases
- Tripp Lite SMART2200RMLX2U line interactive 2U rack/tower UPS with 2200VA / 2.2kVA / 1920W

Highlights

- 2.2kVA / 2200VA / 1920W line interactive 2U rack/tower UPS, Sine Wave
- Extended runtime options up to 1600W, 0.9 Power Factor, Interactive LCD interface
- USB, RS232, EPO and slot for network communication card options
- 120V NEMA 5-20P input, 4 NEMA 5-15R & 4 NEMA 5-15/20R outlets
- TAA Compliant for GSA Schedule purchases
- To use the Auto Probe feature, this product requires a WEBCARDLX network interface (sold separately) running LX firmware update 15.5.2 or later

Package Includes

- SM2200RMLX2UTAA TAA Compliant UPS system
- USB, Serial & EPO cabling
- 4 post installation kit
- Owner's manual



capacity and extended runtime optionsLine interactive UPS with Automatic Voltage Regulation (AVR) corrects brownouts and overvoltages from 83 to 145V

- NEMA 5-20P input plug; 4 NEMA 5-15/20R and 4 5-15R output receptacles, Two independently switched output load banks
- Maintains uninterrupted operation of connected networking equipment during blackouts, surges, brownouts and overvoltages
- High 96% efficiency rating in line-power mode offers reduced power consumption and BTU emissions
- Internal batteries offer 12 minutes at 50% load (960W) and 4.5 minutes at 100% load (1920W)
- Extended runtime is available with optional BP48V24-2U / BP48V242UTAA (limit 1) OR BP48V60RT3U / BP48V60RT3UTAA (no limit), Output is reduced to 1600 watts maximum with external battery packs
- 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
- Following an extended power outage, the UPS will automatically restart into line-power mode, begin powering connected equipment and recharge the battery system, all without user interaction
- 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
- Communications interfaces support communications via USB, DB9 serial and slot for network management card options; Compatible with Tripp Lite UPS management card options TLNETCARD, WEBCARDLX and SNMPWEBCARD
- HID-compliant USB port enables integration with built-in power management and auto shutdown features of Windows and Mac OS X
- USB & Serial ports enable data-saving unattended shutdown when used with Tripp Lite's PowerAlert software, available via FREE download from www.tripplite.com/poweralert
- Built-in Emergency Power Off (EPO) interface with cable

Specifications

| OVERVIEW | |
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| UPC Code | 037332152800 |
| UPS Type | Line-Interactive |
| INPUT | |
| Rated input current (Maximum Load) | 16A (120V) |



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| Nominal Input Voltage(s) Supported | 120V AC |
| UPS Input Connection Type | 5-20P |
| UPS Input Cord Length (ft.) | 10 |
| UPS Input Cord Length (m) | 3.1 |
| Recommended Electrical Service | 20A 120V |
| Input Phase | Single-Phase |
| OUTPUT | |
| Output Volt Amp Capacity (VA) | 2200 |
| Output kVA Capacity (kVA) | 2.20 |
| Output Watt Capacity (Watts) | 1920 |
| Output kW Capacity (kW) | 1.92 |
| Output Capacity Details | Output is reduced to 1600 watts maximum when used with external battery packs |
| Power Factor | 0.87 |
| Nominal Voltage Details | 120v nominal output in battery mode |
| Frequency Compatibility | 60 Hz |
| Output Voltage Regulation (Line Mode) | -14%, +6% |
| Output Voltage Regulation (Battery Mode) | +/- 5% |
| Load Management Receptacles | Two switched single outlet load banks (1 5-15/20R & 1 5-15R) |
| Output AC Waveform (AC Mode) | Sine wave |
| Output AC Waveform (Battery Mode) | Pure Sine wave |
| Nominal Output Voltage(s) Supported | 110V; 115V; 120V |
| Output Receptacles | (4) 5-15R; (4) 5-15/20R |
| Individually Controllable Load Banks | Yes |
| BATTERY | |
| Battery Type | Valve Regulated Lead Acid (VRLA) |
| Full Load Runtime (min.) | 4.5 min. (1920w) |
| Half Load Runtime (min.) | 12 min. (960w) |
| Expandable Battery Runtime | Extended runtime supported via optional external battery packs; 1600 watts maximum load with external battery packs |
| Expandable Runtime | Yes |



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| External Battery Pack Compatibility | BP48V24-2U (limit 1); BP48V27-2US (multi-pack compatible); BP48V60RT-3U (multi-pack compatible); BP48V242UTAA (limit 1); BP48V27-2US (multi-pack compatible); BP48V60RT-3U (multi-pack compatible); BP48V60RT3UTAA (multi-pack compatible) |
| DC System Voltage (VDC) | 48 |
| Battery Recharge Rate (Included Batteries) | Less than 4.5 hours from 10% to 90% |
| 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 83 to 145 |
| Overvoltage Correction | Voltage reduction of 12% applies when input is between 127 and 145 |
| Undervoltage Correction | Voltage boost of 12% applies when input voltage is between 96 and 108 |
| Severe Undervoltage Correction | Voltage boost of 24% applies when input voltage is between 83 and 95 |
| 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 | Power-fail alarm can be temporarily silenced using alarm-cancel switch; silent mode alarm configuration option available |
| 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 | 570 |
| UPS AC Suppression Response Time | Instantaneous |
| EMI / RFI AC Noise Suppression | Yes |
| PHYSICAL | |
| 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 |



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| Installation Form Factors Supported with Optional Accessories | 2 post rackmount (2-Post-Rack-Mount-Wall-Mount-Adapter-Kit-select-Rack-Mount-UPS-Systems~2POSTRMKITWM); 2-4 post front rail rackmount (Heavy-Duty-2-post-Front-Mounting-Ear-Kit~UPSHDEARKIT); 4 post rackmount short-depth (4-Post-1U-Universal-Adjustable-Rack-Mount-Shelf-Kit-for-Wall-Mount-Racks~4POSTRAILKITWM); Tower (2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND); Wallmount (2-Post-Rack-Mount-Wall-Mount-Adapter-Kit-select-Rack-Mount-UPS-Systems~2POSTRMKITWM); |
| Minimum Required Rack Depth with External Battery Pack (cm) | 66 |
| Minimum Required Rack Depth with External Battery Pack (in.) | 26 |
| Minimum Required Rack Depth without External Battery Pack (cm) | 62 |
| Minimum Required Rack Depth without External Battery Pack (in.) | 24.5 |
| Optional Mounting Accessory Notes | Optional 2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND ; enables upright tower UPS placement; 2-Post-Rack-Mount-Wall-Mount-Adapter-Kit-select-Rack-Mount-UPS-Systems~2POSTRMKITWM ; enables wall-mount and 2-post rackmount installation; 4-Post-1U-Universal-Adjustable-Rack-Mount-Shelf-Kit-for-Wall-Mount-Racks~4POSTRAILKITWM ; enables installation in 4-post short-depth racks from 14.5 to 23.5 inches (368 to 597mm); Heavy-Duty-2-post-Front-Mounting-Ear-Kit~UPSHDEARKIT ; enables installation in 2 or 4-post racks using front vertical rails only, without rear support |
| Primary Form Factor | Rackmount |
| Primary UPS Depth (mm) | 490 |
| Primary UPS Height (mm) | 88 |
| Primary UPS Width (mm) | 440 |
| Rack Height | 2U |
| Shipping Dimensions (hwd / cm) | 22.35 x 60.96 x 53.09 |
| Shipping Dimensions (hwd / in.) | 8.80 x 24.00 x 20.90 |
| Shipping Weight (kg) | 35.38 |
| Shipping Weight (lbs.) | 78.00 |
| UPS Housing Material | Steel |
| UPS Power Module Dimensions (hwd, cm) | 8.79 x 43.99 x 49.00 |
| UPS Power Module Dimensions (hwd, in.) | 3.46 x 17.32 x 19.29 |
| UPS Power Module Weight (kg) | 26.13 |
| UPS Power Module Weight (lbs.) | 57.6 |
| 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 |



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| AC Mode BTU / Hr. (Full Load) | 306 |
| Battery Mode BTU / Hr. (Full Load) | 1157 |
| Audible Noise | 45 dBA maximum, front side 1m |
| COMMUNICATIONS | |
| Network Management Cards | SNMPWEBCARD & TLNETCARD ; 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 http://www.tripplite.com/poweralert |
| Communications Cable | USB and DB9 cabling included |
| WatchDog Compatibility | Supports Watchdog application, OS and hard-reboot restart options for remote applications |
| Network UPS Tools Compatibility | NUT compatible. See the full list of Tripp Lite NUT compatible UPS systems at http://www.networkupstools.org/stable-hcl.html?manufacturer=Tripp Lite |
| Communications Interface | DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface; USB (HID enabled) |
| LINE / BATTERY TRANSFER | |
| Transfer Time | 5 milliseconds (line to battery mode); 1 millisecond (battery to line mode) |
| Low Voltage Transfer to Battery Power (Setpoint) | 83 |
| High Voltage Transfer to Battery Power (Setpoint) | 145 |
| SPECIAL FEATURES | |
| 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 (requires WEBCARDLX); 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 | Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances); TAA Compliant; Tested to CSA (Canada); Tested to NOM (Mexico); Tested to UL1778 (USA) |
| Certification Details | SAFETY STANDARD (U.S.) - UL1778:2014 (5th Ed) R10.17; SAFETY STANDARD (CANADA) - CAN/CSA-C22.2 No. 107.3-14 (3rd Ed) + G11 / FCC/ICES COMPLIANT - CLASS A |
| WARRANTY | |
| Product Warranty Period (Worldwide) | 2-year limited warranty |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico) | \$250,000 & Ultimate Lifetime Insurance |



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