

SmartPro 120V 2.2kVA 1.92kW Line-Interactive Sine Wave UPS, 2U Rack/Tower, Extended Run, Pre-installed SNMPWEBCARD, LCD Display, USB, DB9 Serial

MODEL NUMBER: **SMART2200RMLN**



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. 96% line-mode efficiency offers reduced heat emissions and operating costs. Network management interfaces support communications via USB, RS-232 and pre-installed [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

- Tripp Lite SMART2200RMLN line interactive 2U rack/tower UPS with 2200VA / 2.2kVA / 1920W capacity and extended runtime options
- Line 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

Highlights

- 2.2kVA / 2200VA / 1920W line interactive 2U rack / tower UPS; 0.9 power factor
- 120V nominal output during brownouts to 83V and overvoltages to 145V
- Interactive LCD provides UPS status information and advanced configuration options
- USB, RS232, EPO and Pre-installed [SNMPWEBCARD](#) interface
- Expandable runtime, Hot-swap batteries, 96% efficiency, Sine wave output
- 2 independently switchable output load banks
- NEMA 5-20P input; 4 NEMA 5-15/20R & 4 5-15R outlets

Applications

- Distributed Server Rooms
- Network Closets
- Small Business Networks
- Voice over IP (VoIP) Phone Systems

Package Includes

- SMART2200RMLN UPS system with Pre-installed [SNMPWEBCARD](#)
- PowerAlert software with USB, Serial & EPO cabling
- 4 post installation kit
- Owner's manual



- 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](#)(limit 1), [BP48V60RT-3U](#)(multi-pack compatible) and [BP48V27-2US](#)(multi-pack compatible); 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
- Intelligent battery management system extends battery life
- 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 pre-installed [SNMPWEBCARD](#) accessory
- 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

Specifications

| OUTPUT | |
|--|--|
| Output Capacity Details | Output derates to 1600 watts in all external battery pack configurations |
| 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 | 120V |
| Frequency Compatibility | 60 Hz |
| Output Voltage Regulation (Line Mode) | -14%, +6% |
| Output Voltage Regulation (Battery Mode) | +/- 5% |
| Output Receptacles | (4) 5-15R; (4) 5-15/20R |
| Load Management Receptacles | Two switched single outlet load banks (1 5-15/20R & 1 5-15R) |
| Output AC Waveform (AC Mode) | Pure Sine wave |
| Output AC Waveform (Battery Mode) | Pure Sine wave |
| INPUT | |
| Rated input current (Maximum Load) | 16.0A |
| Nominal Input Voltage(s) Supported | 120V AC |
| UPS Input Connection Type | 5-20P |



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| UPS Input Cord Length (ft.) | 10 |
| UPS Input Cord Length (m) | 3 |
| Recommended Electrical Service | 20A 120V |
| Input Phase | Single-Phase |
| BATTERY | |
| 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 |
| 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 |
| Expandable Runtime | Yes |
| 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 | 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 | 570 |
| UPS AC Suppression Response Time | Instantaneous |
| EMI / RFI AC Noise Suppression | Yes |



| PHYSICAL | |
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| 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.) | 3.43 x 17.32 x 19.46 |
| UPS Power Module Dimensions (hwd, cm) | 8.7 x 44 x 49.4 |
| Rack Height (U Spaces) | 2 |
| UPS Power Module Weight (lbs.) | 57.6 |
| UPS Power Module Weight (kg) | 26.2 |
| UPS Shipping Dimensions (hwd / in.) | 7.9 x 21.7 x 24.2 |
| UPS Shipping Dimensions (hwd / cm) | 20.1 x 55.1 x 61.5 |
| Shipping Weight (lbs.) | 68.8 |
| Shipping Weight (kg) | 31.2 |
| 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) | 306 |
| AC Mode Efficiency Rating (100% Load) | 96% |
| COMMUNICATIONS | |
| Communications Interface | DB9 Serial; EPO (emergency power off); Pre-installed network card; Slot for SNMP/Web interface; USB (HID enabled) |
| Network Monitoring Port Description | Pre-installed SNMPWEBCARD network interface; 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 | 5 milliseconds (line to battery mode); 1 millisecond (battery to line mode) |



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| 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 | Hot swappable batteries |
| Green Energy-Saving Features | Greater than 95% efficiency - GREEN UPS; Individually controllable load banks |
| CERTIFICATIONS | |
| UPS Certifications | Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category A (EMI) |
| WARRANTY | |
| Product Warranty Period (Worldwide) | 2-year warranty, 3 year with registration. Note: Registration is required for 3-year warranty. |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico) | \$250,000 Ultimate Lifetime Insurance |

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<http://www.tripplite.com/products/product-certification-agencies>