

## SmartPro 2.2kVA 1.92kW Line Interactive Extended Run UPS, Sine wave, Pre-installed SNMPWEBCARD, 2U, LCD, USB, Serial, EPO, 120V

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
- 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);

### 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

### Package Includes

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



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
- 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

| General Info                             |  |
|--|--|
| Product Group                            | UPS SYSTEMS  |
| 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%   |
| UPS Output Receptacles                   | 4 5-15R outlet(s); 4 5-15/20R outlet(s)                                  |
| Output 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  |
| <b>BATTERY</b>                             |   |
| 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   |
| <b>VOLTAGE REGULATION</b>                  |   |
| 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  |
| <b>LEDS ALARMS &amp; SWITCHES</b>          |   |
| 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) |
| Audible Alarm                              | Audible alarm indicates UPS startup, power-failure, low-battery, overload, UPS fault and remote shutdown conditions   |
| Alarm Cancel Operation                     | Power-fail alarm can be temporarily silenced using alarm-cancel switch; silent mode alarm configuration option available  |
| Switches                                   | 3 pushbutton switches control OFF / ON power status, MODE selection and MUTE / ENTER control functions  |
| <b>SURGE / NOISE SUPPRESSION</b>           |   |
| UPS AC Suppression Joule Rating            | 570   |
| UPS AC Suppression Response Time           | Instantaneous   |
| EMI / RFI AC Noise Suppression             | Yes   |



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| PHYSICAL  |  |
|---|--|
| Included Mounting Accessory Description                       | Adjustable 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 (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   | 2U   |
| Secondary Form Factor   | Tower (requires 2-9USTAND)   |
| 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                                      | USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface                      |
| 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                                       |  |



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|---|--|
| 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  |
| <b>SPECIAL FEATURES</b>                                     |  |
| 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                              |
| <b>CERTIFICATIONS</b>                                       |  |
| UPS Certifications  | Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category A (EMI) |
| <b>WARRANTY</b>   |  |
| 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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