

## SmartPro 120V 3kVA 2.88kW Line-Interactive Sine Wave UPS, 2U Rack/Tower, Extended Run, Pre-installed WEBCARDLX Network Interface, LCD Display, USB, DB9 Serial

MODEL NUMBER: **SMART3000RMLN**



### 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 port, DB9 serial port and pre-installed WEBCARDLX network management interface card. The Java-free HTML5-based WEBCARDLX interface enables full remote access for site power and UPS status monitoring, configuration, control and email notifications via secure web browser, SNMP, telnet or SSH. It supports 10/100 Mbps auto-sensing for optimum communication with an Ethernet network. Optional EnviroSense2 modules (sold separately) provide a variety of environmental monitoring capabilities. Protocols supported include HTTP, HTTPS, SMTP, SNMPv1, SNMPv2, SNMPv3, telnet, SSH, FTP, DHCP and NTP. 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 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-

### Highlights

- 3kVA / 3000VA / 2880W line interactive 2U rack/tower UPS, Sine Wave
- Extended runtime options up to 2880W, 0.96 Power Factor, 4 post mounting kit
- USB, RS232, EPO and pre-installed WEBCARDLX Network Interface
- 120V NEMA L5-30P input, 8 NEMA 5-15/20R & 1 L5-30R outlets
- This product is ENERGY STAR qualified for its ability to save customers money while helping to protect the environment

### Package Includes

- SMART3000RMLN UPS system with Pre-installed Network Management Card
- USB, Serial & EPO cabling
- 4 post rackmount installation kit
- Instruction manual

replaceable, hot-swappable battery modules.

## Features

- Tripp Lite SMART3000RMLN line interactive 2U rack/tower UPS with 3000VA / 3kVA capacity and extended runtime options
- Line interactive UPS with Automatic Voltage Regulation (AVR) corrects brownouts and overvoltages from 83 to 145V
- NEMA L5-30P input plug; 8 NEMA 5-15/20R and 1 L5-30R output receptacles, Two independently switchable 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 10 minutes at 50% load (1440W) and 3 minutes at 100% load (2880W)
- Extended runtime is available with optional BP48V24-2U (limit 1), BP48V60RT-3U (multi-pack compatible) and BP48V27-2US (multi-pack compatible) 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
- Network interfaces support communications via built-in USB, DB9 serial / contact-closure and pre-installed WEBCARDLX network management card
- WEBCARDLX interface allows full remote access for power monitoring, configuration, control and email notifications via secure web browser, SNMP, telnet or SSH
- Optional E2 sensors enable site monitoring of temperature, humidity and contact-closure status
- 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](http://www.tripplite.com/poweralert)
- Built-in Emergency Power Off (EPO) interface with cable

## Specifications

### OVERVIEW



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| UPC Code                                 | 037332177896   |
| <b>OUTPUT</b>                            |  |
| Output Volt Amp Capacity (VA)            | 3000   |
| Output kVA Capacity (kVA)                | 3.00   |
| Output Watt Capacity (Watts)             | 2880   |
| Output kW Capacity (kW)                  | 2.88   |
| Power Factor                             | .96  |
| Nominal Output Voltage(s) Supported      | 110V; 115V; 120V   |
| Nominal Voltage Details                  | 120v nominal output in battery mode                            |
| Frequency Compatibility                  | 60 Hz  |
| Output Voltage Regulation (Line Mode)    | +6%, -14%  |
| Output Voltage Regulation (Battery Mode) | +/-5%  |
| Output Receptacles                       | (8) 5-15/20R; (1) L5-30R                                       |
| Load Management Receptacles              | Two switchable single outlet 5-15/20R load banks               |
| Output Circuit Breakers                  | Two 20A output breakers protect 4 5-15/20R outlets each        |
| Output AC Waveform (AC Mode)             | Pure Sine wave   |
| Output AC Waveform (Battery Mode)        | Pure Sine wave   |
| <b>INPUT</b>                             |  |
| Rated input current (Maximum Load)       | 24A  |
| Nominal Input Voltage(s) Supported       | 120V AC  |
| UPS Input Connection Type                | L5-30P   |
| UPS Input Cord Length (ft.)              | 10   |
| UPS Input Cord Length (m)                | 3.1  |
| Recommended Electrical Service           | 30A 120V   |
| Input Phase                              | Single-Phase   |
| <b>BATTERY</b>                           |  |
| Full Load Runtime (min.)                 | 3 min. (2880w)   |
| Half Load Runtime (min.)                 | 10 min. (1440w)  |
| Expandable Battery Runtime               | Extended runtime supported via optional external battery packs |



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| External Battery Pack Compatibility                           | <a href="#">BP48V24-2U</a> (limit 1); <a href="#">BP48V60RT-3U</a> (multi-pack compatible); <a href="#">BP48V27-2US</a> (multi-pack compatible)   |
| DC System Voltage (VDC)                                       | 48  |
| Battery Recharge Rate (Included Batteries)                    | Less than 5 hours from 10 to 90% (typical, full load discharge)   |
| Internal UPS Replacement Battery Cartridge                    | <a href="#">RBC58-2U</a>  |
| Battery Access  | Front panel battery access door   |
| Battery Replacement Description                               | Hot-swappable, replaceable batteries  |
| Expandable Runtime  | Yes   |
| <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  | Input voltages between 127 and 145 are reduced by 12%   |
| Undervoltage Correction                                       | Input voltages between 108 and 96 are boosted by 12%  |
| Severe Undervoltage Correction                                | Input voltages between 83 and 95 are boosted by 24%   |
| <b>USER INTERFACE, ALERTS &amp; CONTROLS</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) |
| 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   |
| <b>SURGE / NOISE SUPPRESSION</b>                              |   |
| UPS AC Suppression Joule Rating                               | 570   |
| EMI / RFI AC Noise Suppression                                | Yes   |
| AC Suppression Response Time                                  | Instantaneous   |
| <b>PHYSICAL</b>   |   |
| 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.)                        | 3.50 x 17.50 x 19.00  |



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| UPS Power Module Dimensions (hwd, cm)                           | 8.89 x 44.45 x 48.26   |
| Rack Height (U Spaces)  | 2  |
| Minimum Required Rack Depth without External Battery Pack (cm)  | 61   |
| Minimum Required Rack Depth with External Battery Pack (cm)     | 66   |
| Minimum Required Rack Depth without External Battery Pack (in.) | 24   |
| Minimum Required Rack Depth with External Battery Pack (in.)    | 26   |
| UPS Power Module Weight (lbs.)                                  | 72.8   |
| UPS Power Module Weight (kg)                                    | 33.02  |
| Shipping Dimensions (hwd / in.)                                 | 8.500 x 24.300 x 21.200  |
| Shipping Dimensions (hwd / cm)                                  | 21.59 x 61.72 x 53.85  |
| Shipping Weight (lbs.)  | 93.9000  |
| Shipping Weight (kg)  | 42.59  |
| Cooling Method  | Fan  |
| UPS Housing Material  | Steel  |
| Primary UPS Height (mm)   | 89   |
| Primary UPS Width (mm)  | 445  |
| Primary UPS Depth (mm)  | 483  |
| <b>ENVIRONMENTAL</b>  |  |
| 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)                                   | 409  |
| Battery Mode BTU / Hr. (Full Load)                              | 1736   |
| AC Mode Efficiency Rating (100% Load)                           | 96%  |
| <b>COMMUNICATIONS</b>   |  |
| Communications Interface  | DB9 Serial; EPO (emergency power off); Pre-installed network card; Slot for SNMP/Web interface; USB (HID enabled)  |
| Network Monitoring Port Description                             | Includes pre-installed WEBCARDLX Network Management Card interface   |
| PowerAlert Software   | For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at <a href="http://www.tripplite.com/poweralert">http://www.tripplite.com/poweralert</a> |
| Communications Cable  | USB, DB9 and EPO cabling included  |
| WatchDog Compatibility  | Supports Watchdog application, OS and hard-reboot restart options for remote applications  |



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| Network UPS Tools Compatibility                             | NUT compatible. See the full list of Tripp Lite NUT compatible UPS systems at <a href="http://www.networkupstools.org/stable-hcl.html?manufacturer=Tripp+Lite">http://www.networkupstools.org/stable-hcl.html?manufacturer=Tripp Lite</a> |
| <b>LINE / BATTERY TRANSFER</b>                              |   |
| Transfer Time   | 5 milliseconds (AC to battery mode), 1 millisecond (Battery to AC mode)   |
| Low Voltage Transfer to Battery Power (Setpoint)            | 83  |
| High Voltage Transfer to Battery Power (Setpoint)           | 145   |
| <b>SPECIAL FEATURES</b>                                     |   |
| 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; Schedulable daily hours of economy mode operation  |
| <b>CERTIFICATIONS</b>                                       |   |
| UPS Certifications  | Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category A (EMI); ENERGY STAR Qualified   |
| <b>WARRANTY</b>   |   |
| Product Warranty Period (Worldwide)                         | 2-year warranty, 3 year with registration. Note: <a href="http://www.tripplite.com/support/product-warranty-registration">Registration is required</a> for 3-year warranty.   |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico)  | \$250,000 <a href="http://www.tripplite.com/support/insurance-policy">Ultimate Lifetime Insurance</a>   |

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