



Tripp Lite
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SmartPro 120V 3kVA 2.25kW Line Interactive Sine Wave UPS, 2U Rack/Tower, Pre-Installed WEBCARDLX Network Interface, LCD Display, USB, DB9 Serial

MODEL NUMBER: **SMART3000RM2UN**



Highlights

- 3kVA / 3000VA / 2250W line interactive 2U rack/tower UPS, Sine Wave
- Extended runtime options up to 1600W, Interactive LCD interface, 4 post mounting kit
- USB, RS232, EPO and pre-installed WEBCARDLX Network Interface
- 120V NEMA L5-30P input and 8 NEMA 5-15/20R & 1 L5-30R outlets
- To enable the Auto Probe feature, this product requires LX firmware update 15.5.2 or later to be installed

Package Includes

- SMART3000RM2UN UPS System with WEBCARDLX Network Interface
- USB, Serial & EPO cabling
- 4-post rackmount installation kit
- Instruction manual

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. 98% 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 for 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

- Tripp Lite SMART3000RM2UN line interactive 2U rack/tower UPS with 3000VA / 3kVA capacity (1600W maximum load with external battery packs)
- 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 98% efficiency rating in line-power mode offers reduced power consumption and BTU emissions
- Internal batteries offer 10 minutes at 50% load (1125W) and 3.5 minutes at 100% load (2250W)
- Extended runtime is available with optional BP48V24-2U (limit 1), BP48V60RT-3U (multi-pack compatible) and BP48V27-2US (multi-pack compatible) external battery packs (max output de-rates to 1600 watts with external batteries)
- 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, SSH, or Command Line.
- Reduce service calls with Auto Probe Autonomous Device Management. The Auto Probe feature (Firmware 15.5.2 and greater) of the LX Platform Interface checks the connectivity status of any networked device and automatically takes one or more user-configured actions if the device fails to respond; actions include outlet reboot, set SNMP traps, SNMP OID sets, and even script execution when used in conjunction with the Tripp Lite PowerAlert Network Shutdown Agent (PANSA)
- 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
- Built-in Emergency Power Off (EPO) interface with cable

Specifications

OVERVIEW	
UPC Code	037332177902
UPS Type	Line-Interactive
INPUT	
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



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Recommended Electrical Service	30A 120V
Input Phase	Single-Phase
OUTPUT	
Output Volt Amp Capacity (VA)	3000
Output Capacity (kVA)	3.00
Output Watt Capacity (Watts)	2250
Output kW Capacity (kW)	2.25
Power Factor	0.75
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 switchable single-outlet 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
Nominal Output Voltage(s) Supported	110V; 115V; 120V
Output Receptacles	(8) 5-15/20R; (1) L5-30R
Individually Controllable Load Banks	Yes
BATTERY	
Battery Type	Valve Regulated Lead Acid (VRLA)
Full Load Runtime (min.)	3.5 min. (2250w)
Half Load Runtime (min.)	10 min. (1125w)
Expandable Battery Runtime	Output with external battery pack configurations is limited to 1600 watts maximum
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%
Battery Access	Front panel battery access door



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Internal UPS Replacement Battery Cartridge	 RBC94-2U </td></tr><tr><td>Battery Replacement Description</td><td>Hot-swappable, user replaceable batteries</td></tr><tr><td data-cs="2" data-kind="parent">VOLTAGE REGULATION</td><td data-kind="ghost"></td></tr><tr><td>Voltage Regulation Description</td><td>Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 83 to 145</td></tr><tr><td>Overvoltage Correction</td><td>Input voltages between 127 and 145 are reduced by 12%</td></tr><tr><td>Undervoltage Correction</td><td>Input voltages between 108 and 96 are boosted by 12%</td></tr><tr><td>Severe Undervoltage Correction</td><td>Input voltages between 83 and 95 are boosted by 24%</td></tr><tr><td data-cs="2" data-kind="parent">USER INTERFACE, ALERTS & CONTROLS</td><td data-kind="ghost"></td></tr><tr><td>Front Panel LCD Display</td><td>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)</td></tr><tr><td>Switches</td><td>3 pushbutton switches control OFF / ON power status, MODE selection and MUTE / ENTER control functions. LX Platform Interface: Recessed reset switch for interface reboot and factory reset</td></tr><tr><td>Alarm Cancel Operation</td><td>Power-fail alarm can be temporarily silenced using alarm-cancel switch; silent mode alarm configuration option available</td></tr><tr><td>Audible Alarm</td><td>Audible alarm indicates UPS startup, power-failure, low-battery, overload, UPS fault and remote shutdown conditions</td></tr><tr><td>LED Indicators</td><td>Network Link/Activity (Green): Flashes for network activity. Network Speed (Yellow): 10 Mbps (Flashing), 100 Mbps (On steady). LX Platform Interface Status: Normal Operation (Solid Green); Software Update (Alternating Green/Orange ~1/sec); Factory Reset (Alternating Green/Orange ~2/sec).</td></tr><tr><td data-cs="2" data-kind="parent">SURGE / NOISE SUPPRESSION</td><td data-kind="ghost"></td></tr><tr><td>UPS AC Suppression Joule Rating</td><td>570</td></tr><tr><td>UPS AC Suppression Response Time</td><td>Instantaneous</td></tr><tr><td>EMI / RFI AC Noise Suppression</td><td>Yes</td></tr><tr><td data-cs="2" data-kind="parent">PHYSICAL</td><td data-kind="ghost"></td></tr><tr><td>Primary Form Factor</td><td>Rackmount</td></tr><tr><td>Cooling Method</td><td>Fan</td></tr><tr><td>Included Mounting Accessory Description</td><td>Included 4POSTRAILKIT mounting bracket enables installation in 4 post racks from 20.5 to 36 inches (521 to 914mm)</td></tr><tr><td>Installation Form Factors Supported with Included Accessories</td><td>4 post 19 inch rackmount</td></tr><tr><td>Installation Form Factors Supported with Optional Accessories</td><td>2 post rackmount (2POSTRMKITWM); 2-4 post front rail rackmount (UPSHDEARKIT); 4 post rackmount short-depth (4POSTRAILKITWM); Tower (2-9USTAND); Wallmount (2POSTRMKITWM)</td></tr><tr><td>Minimum Required Rack Depth with External Battery Pack (cm)</td><td>67</td></tr></table></div><div data-bbox="485 974 510 984" data-label="Page-Footer">4 / 7</div>
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Minimum Required Rack Depth with External Battery Pack (in.)	26.5
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 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)	494
Primary UPS Height (mm)	87
Primary UPS Width (mm)	440
Rack Height	2U
Shipping Dimensions (hwd / cm)	22.35 x 60.71 x 56.39
Shipping Dimensions (hwd / in.)	8.80 x 23.90 x 22.20
Shipping Weight (kg)	35.96
Shipping Weight (lbs.)	79.28
UPS Housing Material	Steel
UPS Power Module Dimensions (hwd, cm)	8.71 x 43.99 x 49.43
UPS Power Module Dimensions (hwd, in.)	3.43 x 17.32 x 19.46
UPS Power Module Weight (kg)	28.49
UPS Power Module Weight (lbs.)	62.8
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)	189
Battery Mode BTU / Hr. (Full Load)	1356
AC Mode Efficiency Rating (100% Load)	98%
Audible Noise	45 dBA maximum, front side 1m
COMMUNICATIONS	
Network Management Cards	WEBCARDLX



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Network Monitoring Port Description	Includes pre-installed WEBCARDLX Network Management Card interface
PowerAlert Software	For local monitoring via the UPS's built-in Serial or USB communication ports, download PowerAlert Local software at https://www.tripplite.com/poweralert . LX Platform Interface: PowerAlert Device Manager 20 (PADM20)
Communications Cable	Micro-USB, USB, and DB9 cabling included
WatchDog Compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
Network Monitoring Port	RJ45 Network port, Micro-USB Configuration/Console port, USB A port supports a variety of Envirosense2 environmental and control modules. See Accessories>Management Hardware section for more information about these modules.
EPO Port	RJ11 interface jack with 4-meter cable included. Supports normally open and normally closed EPO systems
SNMP Compatibility	SNMP V1, V2c, V3
Network UPS Tools Compatibility	NUT compatible. See the full list of Tripp Lite NUT compatible UPS systems at https://www.networkupstools.org/stable-hcl.html?manufacturer=Tripp Lite
Network Compatibility	100 Mbps (Fast Ethernet)
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	5 milliseconds (AC to battery); 1 millisecond (battery to AC)
Low Voltage Transfer to Battery Power (Setpoint)	83
High Voltage Transfer to Battery Power (Setpoint)	145
FEATURES & SPECIFICATIONS	
Grounding Lug	Includes 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 (included); Automatic Voltage Regulation (AVR); 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	
Product Certifications	CSA (Canada); NOM (Mexico); UL 1778
Product Compliance	RoHS; FCC Part 15 Class A (USA)
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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