

# SmartPro Rack/Tower UPS System

Intelligent, line interactive power management system



## Model #: SMART1500RMXL2Ua

- ▶ 1500VA / 1.5kVA line interactive, extended-run 2U rack / tower UPS
- ▶ Maintains sine-wave 120V nominal output over an input range of 79 to 147V
- ▶ Network communications supported via USB port, serial port, SNMP/Web card slot and EPO interface
- ▶ Current monitoring and switched PDU control via 3 two-outlet load banks
- ▶ Input: NEMA 5-15P (120V 15A) / Output: 8 NEMA 5-15R (120V)
- ▶ 2 year product warranty / \$250,000 Ultimate Lifetime Insurance (USA, Puerto Rico & Canada only)

## DESCRIPTION

Tripp Lite's SMART 1500RMXL2Ua intelligent, line interactive rack/tower uninterruptible power supply prevents data loss, downtime and equipment damage due to power outages, voltage fluctuations and transient surges. Requires only two rack spaces (2U) in a standard rack enclosure. Large internal batteries offer 21 minutes half load runtime and 7.5 minutes at full load. Runtime is expandable with optional BP36V15-2U external battery pack (limit 1) or BP436V42-3U (multi-pack compatible). Maintains regulated 120V nominal output without using battery power during brownouts and overvoltages from 75 to 147V. 1500VA / 1000 watt power handling capability supports a variety of networking, telecom and other sensitive electronic applications. Includes a total of 8 outlets with 3 load banks that are individually controllable via software interface to reboot select equipment on demand or shed less significant loads to extend battery runtime for more critical equipment. Supports remote monitoring of UPS and site power conditions via built-in USB and DB9 monitoring ports. Includes PowerAlert UPS monitoring and unattended shutdown software with complete cabling. Built-in accessory slot supports SNMP with optional SNMPWEBCARD adapter. Emergency Power Off (EPO) interface offers option for instantaneous power-off of UPS and connected equipment in the case of fire or emergency. Multi-function audible alarms and set of 5 front panel LEDs offer at-a-glance notification of UPS and line power status. Network-grade AC surge suppression protects equipment from damage and performance problems resulting from transient surges and line noise. Attractive all-black color scheme. Two year warranty with \$250,000 connected equipment insurance (USA & Canada only).

## KEY BUYING POINTS

- SMART 1500RMXL2Ua line interactive UPS offers voltage regulation and battery support, plus complete AC surge suppression
- Supports 2U rackmount and upright tower applications
- Full time sine wave output offer guaranteed compatibility with all equipment types
- Supports a max load of 1500VA for 7.5 minutes and a half load of 750VA for 21 minutes
- Expandable runtime with BP36V15-2U (limit 1) or with multiple BP36V42-3U rack/tower external battery packs
- Maintains regulated 120V nominal output during brownouts and overvoltages from 75 to 147V
- 1500VA / 1000 watt power handling capability supports a variety of sensitive electronic loads
- Includes 8 UPS supported outlets arranged in 3 individually controllable load banks
- Built in USB and DB9 serial ports support remote monitoring of UPS and site power conditions
- Built in accessory slot supports SNMP with optional SNMPWEBCARD adapter
- Emergency Power Off (EPO) interface with cable
- Multi-function audible alarms and set of 5 front panel LEDs
- Network-grade AC surge suppression
- Attractive all-black color scheme
- UPS battery set ships fully assembled and ready for installation, no time consuming connection of internal batteries by user is necessary
- Two year warranty with \$250,000 connected equipment insurance (USA & Canada only)
- Mounting hardware included for 4 post rackmount enclosures, 2 post telecom rack compatible with separate purchase 2POSTRMKITWM, compatible with upright tower installation with included hardware

## TYPICAL APPLICATIONS

- Ideal for the protection of rackmount file servers, network accessories and telecommunications equipment. Common applications include any mix of servers, workstations, hubs, routers, concentrators, IP telephony and traditional PBX switching systems. Line interactive voltage regulation makes this system ideal for locations where severe brownouts and overvoltages are common

## OPTIONS & ACCESSORIES

- External battery pack: [BP36V15-2U](#) (limit 1), [BP36V42-3U](#) (multi-pack compatible)
- SNMP accessories: [SNMPWEBCARD](#), [ENVIROSENSE](#)
- USB Hubs-accessories: [U202-004-R](#), [U205-004-R](#), [U022-010](#)
- Dataline protectors: [DNET1](#), [DTEL2](#), [DCATV](#)
- Rack enclosures: [Rack Systems](#)
- Circuit Tester: [CT120](#)
- Power distribution: [PDU1215](#), [PS7224](#)
- Tower Stands: [2-9USTAND](#)
- Two Post Rackmount/Wallmount Kit: [2POSTRMKITWM](#)
- Extended warranties: 3 Year [WEXT3-500-1500](#), 5 Year [WEXT5-500-1500](#)

## PACKAGE INCLUDES

- SMART 1500RMXL2Ua UPS System
- PowerAlert software with USB and DB9 cables
- Mounting hardware for 4 post rackmount installation
- Cable for Emergency Power Off interface
- Instruction manual with warranty information

## COMPLETE SPECIFICATIONS

### SYSTEM OVERVIEW

**System overview:** "Line interactive 2U rack / tower UPS protects equipment from blackouts, brownouts, overvoltages, surges and line noise. Maintains AC output during blackouts and continuously corrects brownouts and overvoltages from 75 to 147 volts. Supports enhanced monitoring of UPS and line power conditions via built-in USB and DB9 serial ports, included PowerAlert monitoring software and complete cabling. Includes slot for SNMPWEBCARD accessory. Built-in set of 3 load management banks offer remote reboot of selected loads or load shedding to enhance battery runtime for critical loads. Expandable with BP36V15-2U battery pack (limit 1) or multiple BP36V42-3U (multi-pack compatible)."

**Voltage compatibility:** 120V AC

**Frequency compatibility:** 60 Hz

### OUTPUT

**Output volt amp capacity (VA):** 1500

**Output watt capacity (watts):** 1000

**Output nominal voltage:** 120V AC

**Output voltage regulation:** LINE MODE: Sine wave line voltage 120V (-18% / +8%), BATTERY MODE: Sine wave output 120V +/-5%

**Output frequency regulation:** LINE MODE: Passes line frequency of 60Hz +/-10% BATTERY MODE: Inverter output regulated to 60Hz +/-0.5Hz

**Outlet quantity / type:** 8 NEMA 5-15R

**Customized load management receptacles:** "Includes 3 load banks, each with 2 outlets, that support load shedding and remote reboot on

demand of locked network devices. Controllable via PowerAlert software to automatically switch off optional loads, like monitors, to increase available runtime for servers and other critical devices. "

**Overload protection:** 15A input breaker

## INPUT

**Maximum input amps:** 10.1A / 1090 watts

**Input connection type:** NEMA 5-15P

**Input cord length:** 10 ft., 14 gauge

**Recommended electrical service:** 15A 120V

## BATTERY

**Full load runtime:** 7.5 minutes (1000 watts)

**Half load runtime:** 21 minutes (500 watts)

**Expandable battery runtime:** Supports extended runtime with optional BP36V15-2U external battery pack (limit 1) or BP36V42-3U (multi-pack compatible)

**DC system voltage:** 36 VDC

**Typical battery lifespan:** 3-6 years, depending on usage

**Battery recharge rate:** 2-4 hours to 90%

**Replacement Battery Cartridge:** RBC93-2U

## VOLTAGE REGULATION

**Voltage regulation description:** Automatic Voltage Regulation (AVR) circuits maintain clean, regulated computer-grade 120V nominal output, without using battery power, during brownouts to 75V and overvoltages to 147V

**Overvoltage correction:** Input voltages between 128 and 147VAC are reduced by 12%

**Brownout correction:** Input voltages between 95 and 104VAC are boosted by 12%

**Severe brownout correction:** Input voltages between 75 and 94VAC are boosted by 24%

## LEDS ALARMS & SWITCHES

**Front panel LEDs:** 5 front panel LEDs - Green POWER LED, Green VOLTAGE CORRECTION LED, 3 color BATTERY CHARGE LED, 3 color OUTPUT LOAD LEVEL LED, red BATTERY WARNING LED.

**Alarms:** 3 function audible alarm indicates power failure conditions (4 short beeps every 10 seconds), overload (continuous short beeps) and low battery (continuous tone)

**Switches:** Yes, includes 2 front panel mounted push-button switches for system enable, self-test and alarm cancel functions

## SURGE / NOISE SUPPRESSION

**AC surge suppression:** 480 joules

**AC suppression response time:** Instantaneous

**EMI / RFI AC noise suppression:** Yes

## PHYSICAL

**Shipping weight (lbs):** 53

**Shipping weight (kg):** 23

**Unit weight (lbs):** 43.5

**Unit weight (kg):** 19.7

**Unit Dimensions (HWD/in):** 3.5 x 17.5 x 13.5

**Unit Dimensions (HWD/cm):** 8.89 x 44.5 x 34.3

**Shipping Dimensions (HWD/in):** 9 x 24 x 20.25



<b>Shipping Dimensions (HWD/cm):</b>	22.9 x 61 x 51.4
<b>Material of construction:</b>	Steel
<b>Form factors supported:</b>	Rack (2U)
<b>Cooling method:</b>	Built-in cooling fan
<b>Battery Access:</b>	Battery access door allows hot swap battery replacement without powering connected equipment off

## ENVIRONMENTAL

<b>Operating Temperature:</b>	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius
<b>Storage Temperature:</b>	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius
<b>Relative Humidity:</b>	0 to 95%, non-condensing
<b>Line mode BTU/hr. (Max.):</b>	81.9
<b>Battery mode BTU/hr. (Max.):</b>	277.9

## COMMUNICATIONS

<b>Network monitoring port:</b>	Includes 2 built-in monitoring ports, 1-USB & 1-DB9. Each supports on battery, low battery, power restored, AC line voltage, DC battery voltage, load percentage, battery charge current, battery capacity, internal UPS temperature and line frequency status
<b>Software and cabling included:</b>	Includes PowerAlert UPS monitoring software for network and standalone operating systems. Ships with complete USB and DB9 cabling.
<b>SNMP compatibility:</b>	Built-in accessory slot accommodates internal SNMPWEBCARD and other network accessories
<b>WatchDog compatibility:</b>	Yes, compatible with Tripp Lite's Watchdog system service to restore operation to locked equipment through soft reboot of application / OS or hard power off/on reboot of connected equipment - ideal for unattended kiosk applications

## LINE / BATTERY TRANSFER

<b>Transfer time from line power to battery mode:</b>	2-4 milliseconds
<b>Low voltage transfer to battery power:</b>	75V (resets to line power as voltage increases to 79V)
<b>High voltage transfer to battery power:</b>	147V (resets to line power as voltage decreases to 144V)

## CERTIFICATIONS

<b>Certifications:</b>	UL1778 (USA), cUL (Canada), Class B (Emissions), NOM (Mexico)
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## WARRANTY

<b>Product warranty:</b>	\$250,000 connected equipment insurance (USA / Canada only)
<b>Connected equipment insurance (USA and Canada Only):</b>	3 year, 5 year, next day and on-site warranty coverage available for select opportunities
<b>Optional coverage:</b>	2 year product warranty

## SPECIAL FEATURES

<b>EPO port:</b>	Includes RJ11 EPO (emergency power off) port and cable
<b>TVSS grounding:</b>	Includes back panel grounding point with thumbscrew for data line surge suppressors and other network accessories requiring a safe grounding point
<b>Cold Start:</b>	Yes, inverter can be "cold started" to enable temporary AC output during a power failure
<b>Appearance:</b>	Attractive black housing

## BATTERY PACK ACCESSORY (optional)

<b>Battery Pack Accessory (optional):</b>	BP36V15-2U (limit 1) or BP36V42-3U (multi-pack compatible)
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*The policy of Tripp Lite is one of continuous improvement.  
Specifications are subject to change without notice.  
Therefore, your product may vary slightly from what is currently listed.*



**Tripp Lite World Headquarters**  
1111 W. 35th Street  
Chicago, IL 60609 USA

**Customer Support**  
(773) 869-1234

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