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## Model #: SMART1500RM2U

### SmartPro Rack/Tower UPS - Intelligent, line-interactive network power management system

#### Highlights



- 1500VA / 1.5kVA line interactive 2U rack / tower UPS
- Maintains sine-wave 120V nominal output over an input range of 83 to 147V
- Network communications supported via USB port, serial port, SNMP/Web card slot and EPO interface
- Current monitoring and switched PDU control via 2 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 1500RM2U intelligent, line-interactive sine wave 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 19 minutes half load runtime and 7 minutes at full load. Maintains regulated 120V nominal output without using battery power during brownouts and overvoltages from 83 to 147V. 1500VA/1000 watt power handling capability and full time sine wave output supports networking, telecom and other sensitive electronic applications. Includes a total of 8 outlets arranged in 2 load banks that are individually controllable by a software interface to reboot select equipment on demand or shed less significant loads to extend battery runtime for more critical equipment. Supports simultaneous remote monitoring of UPS and site power conditions via built-in USB and DB9 monitoring ports. Optional SNMPWEBCARD accessory enables remote monitoring of UPS as a managed device via network management console applications. Communications ports support messaging of detailed UPS operational parameters and line power status. Includes PowerAlert UPS monitoring and unattended shutdown software with management support for an unlimited number of network UPS systems. 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).

#### Applications

Ideal for rackmount or upright tower protection of file servers, network accessories and telecommunications equipment in server rooms, internetworking closets, co-location racks, kiosks and a variety of other locations. Common applications include any mix of servers, workstations, hubs, routers, concentrators, IP telephony and traditional PBX switching systems.

#### Package Includes

- SMART 1500RM2U UPS System
- Mounting hardware for 4 post rackmount installation
- Cabling for USB & DB9 monitoring and EPO switching
- PowerAlert unattended shutdown and UPS/Power monitoring software
- Warranty information and instruction manual

## Features

SMART 1500RM2U line-interactive UPS offers battery derived sine wave AC output during power outages, voltage regulation during brownouts and overvoltages, plus network grade AC surge suppression

1500VA/1000 watt power handling ability and full time sine wave output offers guaranteed compatibility with properly sized networking, telecom and other sensitive electronic devices

Supports 2U rackmount installation in 4 post rack enclosures with included mounting accessories, 2 post mountable with optional 2POSTRMKITWM accessory, upright tower installation supported with optional 2-9USTAND accessory

Large internal batteries offer runtimes of 19 minutes at half load (750VA/500 watts) and 7 minutes at full load (1500VA/1000 watts)

Maintains regulated 120V nominal output during brownouts and overvoltages from 83 to 147V

Includes 8 UPS-supported outlets arranged in 2 individually controllable load banks (2 outlets per bank)

PowerAlert UPS monitoring and unattended shutdown software enables configurable network broadcast messaging, email notification, event logging and running user-defined script commands

Offers simultaneous monitoring by up to 3 directly-connected devices through included USB, DB9 and SNMP\* interfaces (\*requires optional SNMPWEBCARD), or the monitoring of any number of additional UPS systems over IP with included PowerAlert monitoring software.

Communications ports support messaging of UPS and line power status, including on battery, low-battery, power restored, AC line voltage, DC battery voltage and remaining battery capacity

Supports timed inverter shutoff after unattended shutdown, activate self-test and UPS output power control for a delayed or immediate reboot of connected devices

Supports Tripp Lite's WatchDog software application to restore unresponsive programs by systematically restarting applications, operating systems and ultimately rebooting completely locked computers by momentarily switching UPS power off and back on again (requires optional WATCHDOGSW)

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)

## Specifications

SYSTEM OVERVIEW	
<b>Voltage compatibility</b>	120V AC
<b>Frequency compatibility</b>	60 Hz
OUTPUT	
<b>Output VA</b>	1500
<b>Output watts</b>	1000
<b>Output nominal voltage</b>	120V AC
<b>Output voltage regulation</b>	LINE MODE: Sine wave line voltage 120V (-21% +8%), BATTERY MODE: Sine wave output within 5% of 120VAC
<b>Output frequency regulation</b>	LINE MODE: Passes line frequency of 60Hz +/-10% BATTERY MODE: Inverter output regulated to 60Hz +/-0.5Hz
<b>Outlet quantity / type</b>	8 NEMA 5-15R
<b>Customized load management receptacles</b>	"Includes 2 load banks, each with 2 outlets that support load shedding and remote reboot on demand of locked network devices. Controllable via PowerAlert software to switch off optional loads, like monitors, to increase available runtime for servers and other critical devices. "
<b>Overload protection</b>	15A input breaker
INPUT	
<b>Maximum input amps</b>	10.4A / 1110 watts
<b>Input connection type</b>	NEMA 5-15P
<b>Input cord length</b>	10 ft., 14 gauge

Recommended electrical service	15A 120V
<b>BATTERY</b>	
Full load runtime	7 minutes (1000 watts)
Half load runtime	19 minutes (500 watts)
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
<b>VOLTAGE REGULATION</b>	
Voltage regulation description	Line-interactive voltage regulation system corrects input voltages between 83 and 147 back to usable 120V nominal levels.
Overvoltage correction	Input voltages between 128 and 147 are reduced by 12%
Brownout correction	Input voltages between 83 and 107 are boosted by 14%
<b>LEDS ALARMS &amp; SWITCHES</b>	
Front panel LEDs	5 front panel LEDs - Green POWER 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	Includes 2 front panel mounted push-button switches for system enable, self-test and alarm cancel functions
<b>SURGE / NOISE SUPPRESSION</b>	
AC surge suppression	480 joules
AC suppression response time	Instantaneous
EMI / RFI AC noise suppression	Yes
<b>PHYSICAL</b>	
Shipping weight (lbs)	53
Shipping weight (kg)	24.1
Shipping Dimensions (HWD/in)	9 x 24 x 20.25
Shipping Dimensions (HWD/cm)	22.9 x 61 x 51.4
Unit weight (lbs)	46
Unit weight (kg)	20.9
Unit Dimensions (HWD/in)	3.5 x 17.5 x 13.5
Unit Dimensions (HWD/cm)	8.9 x 44.5 x 34.3
Material of construction	Steel
Form factors supported	Rack (2U)
Cooling method	Built-in cooling fan

<b>Battery Access</b>	Battery access door allows hot swap battery replacement without powering connected equipment off
<b>ENVIRONMENTAL</b>	
<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>	87.2
<b>Battery mode BTU/hr. (Max.)</b>	295.7
<b>COMMUNICATIONS</b>	
<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 SNMP / Web card and other network accessories
<b>WatchDog compatibility</b>	Compatible with Tripp Lite's Watchdog Software 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
<b>LINE / BATTERY TRANSFER</b>	
<b>Transfer time from line power to battery mode</b>	2-4 milliseconds
<b>Low voltage transfer to battery power</b>	83V (resets to line power as line voltage increases to 87V or higher)
<b>High voltage transfer to battery power</b>	147V (resets to line power as line voltage decreases to 143V or lower)
<b>CERTIFICATIONS</b>	
<b>Certifications</b>	Tested to UL1778 (USA), cUL (Canada), Class A (emissions), NOM (Mexico)
<b>WARRANTY</b>	
<b>Product warranty</b>	2 year product warranty
<b>Connected equipment insurance (USA and Canada Only)</b>	\$250,000 connected equipment insurance (USA / Canada only)
<b>Optional coverage</b>	3 year, 5 year, next day and on-site warranty coverage available for select opportunities
<b>SPECIAL FEATURES</b>	
<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 all-black color scheme

More information, including related products, owner's manuals, and additional technical specifications, can be found online at [www.tripplite.com/products/model.cfm?txtModelID=2658](http://www.tripplite.com/products/model.cfm?txtModelID=2658).