Model #: SMART1000RM2U

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

Highlights

1000VA / 1kVA 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: 6 NEMA 5-15R (120V)

2 year product warranty / $250,000 Ultimate Lifetime Insurance (USA, Puerto Rico & Canada only)

Description

Tripp Lite's SMART 1000RM2U 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 17 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. 1000VA/700 watt power handling capability and full time sine wave output supports networking, telecom and other sensitive electronic applications. Includes a total of 6 outlets arranged in 2 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 simultaneous remote monitoring of UPS and site power conditions via built-in network accessory card slot, USB and DB9 serial 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 operating 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 fileservers, 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 1000RM2U 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 1000RM2U 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

1000VA/700 watt power handling capability with full-time sine wave output offers guaranteed compatibility with networking, telecom and other sensitive electronic devices

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

Large internal batteries offer runtimes of 17 minutes at half load (500VA/350 watts) and 7 minutes at full load (1000VA/700 watts)

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

Includes 6 UPS-supported outlets arranged in 2 individually controllable load banks (2 outlets per bank) that can be powered off and back on again via software interface

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 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	
Voltage compatibility	120V AC
Frequency compatibility	60 Hz
OUTPUT	
Output VA	1000
Output watts	700
Output nominal voltage	120V AC
Output voltage regulation	LINE MODE: Sine wave line voltage 120V (-21% +8%), BATTERY MODE: Sine wave output within 5% of 120VAC
Output frequency regulation	LINE MODE: Passes line frequency of 60Hz +/-10% BATTERY MODE: Inverter output regulated to 60Hz +/-0.5Hz
Outlet quantity / type	6 NEMA 5-15R
Customized load management receptacles	"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 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	6.8A / 770 watts
Input connection type	NEMA 5-15P

Input cord length	10 ft., 14 gauge
Recommended electrical service	15A 120V

BATTERY

Full load runtime	7 minutes (700 watts)
Half load runtime	17 minutes (350 watts)
DC system voltage	24 VDC
Typical battery lifespan	3-6 years, depending on usage
Battery recharge rate	2-4 hours to 90%

VOLTAGE REGULATION

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%

LEDS ALARMS & SWITCHES

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 indicate: 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

SURGE / NOISE SUPPRESSION

AC surge suppression	480 joules
AC suppression response time	Instantaneous
EMI / RFI AC noise suppression	Yes

PHYSICAL

Shipping weight (lbs)	41.5
Shipping weight (kg)	18.8
Shipping Dimensions (HWD/in)	9 x 24 x 20.25
Shipping Dimensions (HWD/cm)	22.9 x 61 x 51.4
Unit weight (lbs)	35
Unit weight (kg)	15.9
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

Battery Access	Battery access door allows hot swap battery replacement without powering connected equipment off

ENVIRONMENTAL

Operating Temperature	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius
Storage Temperature	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius
Relative Humidity	0 to 95%, non-condensing

COMMUNICATIONS

Network monitoring port	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
Software and cabling included	Includes PowerAlert UPS monitoring software for network and standalone operating systems. Ships with complete USB and DB9 cabling.
SNMP compatibility	Built-in accessory slot accommodates internal SNMP / Web card and other network accessories
WatchDog compatibility	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

LINE / BATTERY TRANSFER

Transfer time from line power to battery mode	2-4 milliseconds
Low voltage transfer to battery power	83V (resets to line power as line voltage increases to 87V or higher)
High voltage transfer to battery power	147V (resets to line power as line voltage decreases to 143V or lower)

CERTIFICATIONS

Certifications	Tested to UL1778 (USA), cUL (Canada), Class B (emissions), NOM (Mexico)

WARRANTY

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

SPECIAL FEATURES

EPO port	Includes RJ11 EPO (emergency power off) port and cable
TVSS grounding	Includes back panel grounding point with thumbscrew for data line surge suppressors and other network accessories requiring a safe grounding point
Cold Start	Yes, inverter can be "cold started" to enable temporary AC output during a power failure
Appearance	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=2657.