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Model #: SMX500RT1U

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

Highlights

- 500VA line interactive 1U rackmount UPS
- Maintains sine-wave 230V nominal output during brownouts to 187 and overvoltages to 252V
- Network communications supported via USB port, serial port, SNMP/Web card slot and EPO interface
- Current monitoring and switched PDU control via single-outlet load bank
- Input: C14 inlet (230V) / Output: 6 C13 (230V) / Jumpers: Includes 1 C13 to C14 cable
- 2 year warranty



Description

Tripp Lite's SMX500RT1U 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 one rack space (1U) in a 2 or 4 post rack, with included accessories for upright tower placement. Large internal batteries offer 17 minutes half load runtime and 5 minutes at full load. Maintains regulated 230V nominal output without using battery power during brownouts as low as 187V. 500VA/300 watt power handling capability is compatible with networking, telecom and other sensitive electronic applications. Includes a total of 6 outlets with a single pair of outlets that can be individually controlled 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 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 situation. 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.

Applications

Ideal for 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

- SMX500RT1U UPS System with mounting hardware
- Two 1.8m IEC320-C13 to C14 load jumper cables
- Cabling for USB & DB9 monitoring and EPO switching
- PowerAlert unattended shutdown and UPS/Power monitoring software
- Warranty information and instruction manual

Features

- SMX500RT1U line interactive UPS offers battery derived AC output during power outages, voltage regulation during brownouts, plus network-grade AC surge suppression
- 500VA/300 watt power handling capability compatible with networking, telecom and other sensitive electronic devices

Supports 1U rackmount installation in 2 or 4 post rack enclosures, upright tower placement also supported - mounting accessories included
 Large internal batteries offer runtimes of 17 minutes at half load (250VA/150 watts) and 5 minutes at full load (500VA/300 watts)

Maintains regulated 230V nominal output during brownouts as low as 187V

Includes 6 UPS-supported outlets, with one pair of individually controllable outlets 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 2 directly-connected devices through included USB and DB9 interface ports, or the monitoring by any number of additional servers 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 operation to locked equipment through soft reboot of application, OS or hard power off/on reboot of connected equipment - ideal for unattended kiosk applications (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, no time consuming connection of internal batteries by user is necessary

Two year warranty

Specifications

SYSTEM OVERVIEW	
Voltage compatibility	230V AC
Frequency compatibility	50/60 Hz auto-sensing
OUTPUT	
Output VA	500
Output watts	300
Output nominal voltage	230V AC
Output voltage regulation	"LINE MODE: Sine wave line voltage 230V (-8% +15%), BATTERY MODE: Step sine wave output within 10% of 230V
Output frequency regulation	LINE MODE: Passes line frequency of 50/60Hz +/-10% BATTERY MODE: Inverter output regulated to 50/60Hz +/-1Hz
Outlet quantity / type	6 IEC-C13
Customized load management receptacles	"Includes 1 load bank of 2 outlets that support load shedding and remote reboot on demand of locked network devices. Configurable via PowerAlert software to switch off optional loads, like monitors, to increase available runtime for servers and other critical devices. "
Overload protection	Via 8A input breaker
INPUT	
Maximum input amps	2.4A
Input connection type	IEC-C14
Input cord length	Includes two 1.8m IEC320-C13 to C14 interconnection cables (additional C13 to C14 interconnection cables available, part# P004-006)
BATTERY	
Full load runtime	5 min. (500VA)
Half load runtime	17 minutes (250VA)
DC system voltage	12 VDC

Typical battery lifespan	3-6 years, depending on usage
Battery recharge rate	2-4 hours to 90%
Replacement Battery Cartridge	RBC62-1U
VOLTAGE REGULATION	
Voltage regulation description	Line interactive voltage regulation system corrects brownouts as low as 187 volts back to usable 220-240V nominal levels
Brownout correction	Input voltages between 187 and 207 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	Audible alarm warns of power failure, overload, UPS fault and low battery conditions
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)	21
Shipping weight (kg)	9.5
Shipping Dimensions (HWD/in)	5 x 22.5 x 16
Shipping Dimensions (HWD/cm)	12.7 x 57.2 x 40.6
Unit weight (lbs)	18
Unit weight (kg)	8.2
Unit Dimensions (HWD/in)	1.75 x 17.5 x 11.75
Unit Dimensions (HWD/cm)	4.45 x 44.5 x 29.8
Material of construction	Steel
Form factors supported	Rack (1U)
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	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	
Transfer time from line power to battery mode	2-4 milliseconds
Low voltage transfer to battery power	187V (resets to line power as line voltage increases to 195V or higher)
High voltage transfer to battery power	264V (resets to line power as line voltage decreases to 256 or lower)
CERTIFICATIONS	
Certifications	CE EN62040 listed, RoHS-Compliant
WARRANTY	
Product warranty	2 Years
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=2691.