

## SmartPro 230V 500VA 300W Line-Interactive UPS, 1U Rack/Tower, Network Card Options, USB, DB9 Serial

MODEL NUMBER: **SMX500RT1U**



### 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 14.6 minutes half load runtime and 3.2 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 7 IEC C13 outlets (6 UPS with a single outlet 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, and 1 surge-only receptacle). Supports simultaneous remote monitoring of UPS and site power conditions via built-in USB, DB9 monitoring ports and network management card slot. PowerAlert UPS monitoring and unattended shutdown software is available via free download. 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.

### Features

- Tripp Lite SMX500RT1U .5 kVA / 500VA / 300 watt line interactive UPS
- 1U rack / tower compatible form factor
- IEC C14 input; 7 IEC C13 output receptacles
- Installed depth of only 11.8 in / 29.8 cm
- Large internal batteries offer runtimes of 14.6 minutes at half load (250VA/150 watts) and 3.2 minutes at

### Highlights

- 500VA line interactive 1U rack/tower UPS
- 230V 50 / 60Hz nominal output
- USB, RS232, EPO and slot for Network Management Card options
- Front panel status LEDs; 1 switched output load bank
- C14 input; 7 C13 outlets; 2 C13 to C14 cables

### Package Includes

- SMX500RT1U UPS System with mounting hardware
- Two 1.8m IEC320-C13 to C14 load jumper cables
- USB, DB9 and EPO cables
- Instruction manual with warranty information



full load (500VA/300 watts)

- Intelligent battery management system extends battery life
- Maintains regulated 230V nominal output during brownouts as low as 187V
- Includes 6 UPS-supported outlets, with one single-outlet load bank for remote load shedding or rebooting of an individual device
- 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](http://www.tripplite.com/poweralert)
- Compatible with Tripp Lite UPS management card options [TLNETCARD](#), [WEBCARDLX](#) and [SNMPWEBCARD](#)
- 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](#))
- Emergency Power Off (EPO) interface with cable
- Multi-function audible alarms and set of 5 front panel LEDs
- C14 inlet accepts user-supplied AC power cord with country specific plug
- Network-grade AC surge suppression
- Field-replaceable, hot-swappable internal UPS batteries
- Optional [PDUBHV10](#) bypass PDU enables hot-swappable UPS replacement with no disruption to connected equipment

## Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	500
Output Watt Capacity (Watts)	300
Power Factor	0.6
Nominal Output Voltage(s) Supported	220V; 230V; 240V
Nominal Voltage Details	230v nominal inverter output voltage
Frequency Compatibility	50 / 60 Hz
Output Voltage Regulation (Line Mode)	-8%, +15%
Output Voltage Regulation (Battery Mode)	+/- 5%
Output Receptacles	(7) C13
Included Output Power Cables	Two 1.8m IEC320-C13 to C14 load jumper cables
UPS Output Receptacles (Surge Suppression Only)	6 UPS outlets, 1 surge-only outlet



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Load Management Receptacles	One switchable single-outlet C13 load bank
Hot-Swap PDU options	PDUBHV10 (2U / 8 C13 outlets)
Output AC Waveform (AC Mode)	Sine wave
Output AC Waveform (Battery Mode)	PWM sine wave
<b>INPUT</b>	
Rated input current (Maximum Load)	2.4A
Nominal Input Voltage(s) Supported	230V AC
UPS Input Connection Type	C14 inlet
UPS Input Connection Description	C14 inlet accepts user-supplied AC power cord with country-specific plug
Input Circuit Breakers	8A
Input Phase	Single-Phase
<b>BATTERY</b>	
Full Load Runtime (min.)	3.2 min. (300w)
Half Load Runtime (min.)	14.6 min. (150w)
DC System Voltage (VDC)	12
Battery Recharge Rate (Included Batteries)	Less than 4 hours from 10% to 90% (typical, full load discharge)
Internal UPS Replacement Battery Cartridge	<u>RBC62-1U</u>
Battery Access	Battery access door
Battery Replacement Description	Hot-swappable, user replaceable batteries
Expandable Runtime	No
<b>VOLTAGE REGULATION</b>	
Voltage Regulation Description	Automatic voltage regulation (AVR) maintains line power operation with input voltage as low as 187
Undervoltage Correction	Input voltages between 187 and 207 are boosted by 14%
<b>USER INTERFACE, ALERTS &amp; CONTROLS</b>	
Switches	2 Switches control off/on power status and alarm-cancel/self-test operation
Alarm Cancel Operation	Power-fail alarm can be silenced using alarm-cancel switch; once silenced, alarm will re-sound to indicate low-battery status
Audible Alarm	Audible alarm indicates power-failure, overload and low-battery conditions
LED Indicators	5 LEDs indicate line power, battery power, overload, voltage regulation and battery low/replace status
<b>SURGE / NOISE SUPPRESSION</b>	



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UPS AC Suppression Joule Rating	480 joules
EMI / RFI AC Noise Suppression	Yes
<b>PHYSICAL</b>	
Included Mounting Accessory Description	Included mounting flanges support rackmount installation in 2 or 4 post racks
Primary Form Factor	Rackmount
UPS Power Module Dimensions (hwd, in.)	1.73 x 17.32 x 11.61
UPS Power Module Dimensions (hwd, cm)	4.39 x 43.99 x 29.49
Rack Height (U Spaces)	1
Minimum Required Rack Depth (inches)	13.9
Minimum Required Rack Depth (cm)	35.31
UPS Power Module Weight (lbs.)	18
UPS Power Module Weight (kg)	8.16
UPS Shipping Dimensions (hwd / in.)	5 x 22.5 x 16
UPS Shipping Dimensions (hwd / cm)	12.70 x 57.15 x 40.64
Shipping Weight (lbs.)	21
Shipping Weight (kg)	9.5
UPS Housing Material	Steel
Minimum Required Rack Depth (mm)	353
Primary UPS Height (mm)	44
Primary UPS Width (mm)	440
Primary UPS Depth (mm)	295
Shipping Height (mm)	127
Shipping Width (mm)	572
Shipping Depth (mm)	406
<b>ENVIRONMENTAL</b>	
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)	33



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Battery Mode BTU / Hr. (Full Load)	360
AC Mode Efficiency Rating (100% Load)	95%
<b>COMMUNICATIONS</b>	
Communications Interface	USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface
Network Management Cards	SNMPWEBCARD; TLNETCARD; WEBCARDLX
Network Monitoring Port Description	Supports detailed monitoring of UPS and site power conditions
PowerAlert Software	For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at <a href="http://www.tripplite.com/poweralert">http://www.tripplite.com/poweralert</a>
Communications Cable	USB and DB9 cabling included
WatchDog Compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
Network UPS Tools Compatibility	NUT compatible. See the full list of Tripp Lite NUT compatible UPS systems at <a href="http://www.networkupstools.org/stable-hcl.html?manufacturer=Tripp+Lite">http://www.networkupstools.org/stable-hcl.html?manufacturer=Tripp Lite</a>
<b>LINE / BATTERY TRANSFER</b>	
Transfer Time	2-4 milliseconds
Low Voltage Transfer to Battery Power (Setpoint)	187
High Voltage Transfer to Battery Power (Setpoint)	264
<b>SPECIAL FEATURES</b>	
Grounding Lug	Back panel grounding lug
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Hot swappable batteries
Green Energy-Saving Features	Greater than 95% efficiency - GREEN UPS; Individually controllable load banks
<b>CERTIFICATIONS</b>	
UPS Certifications	CE; Tested to GOST (Russia); Tested to SASO (Saudi Arabia); Tested to IRAM (Argentina); ROHS (Restriction of Hazardous Substances)
UPS Certification Details	CE: EC62040
<b>WARRANTY</b>	
Product Warranty Period (International)	2-year limited warranty
Product Warranty Period (Mexico)	2-year limited warranty
Product Warranty Period (Puerto Rico)	2-year limited warranty



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