

## SmartOnline 1kVA On-Line Double-Conversion UPS, 2U Rack/Tower, 200/220/230/240V C13 outlets

MODEL NUMBER: **SUINT1000RTXL2UA**



### Description

1000VA online, double-conversion UPS system for critical server, network and telecommunications equipment. 2U rackmount form factor with an installed depth of only 13.5 in (34.3 cm). Expandable battery runtime with optional external battery packs: BP24V15RT2U, BP24V28-2U (maximum of 1 per UPS) or BP24V70-3U (multiple battery packs can be daisy-chained). Full-time sine wave 200, 208, 220, 230 or 240V +/-2% output. Uninterruptible Power Supply (UPS) continuously converts raw incoming AC power to DC, then re-converts output back to completely regulated, filtered AC output. Corrects brownouts as low as 130V and overvoltages as high as 275V without draining battery power. IEC-320-C14 inlet input connection; IEC-320-C13 output receptacles. Network-grade AC surge and noise suppression. Zero transfer time between AC and battery operation. Highly efficient operation in optional Economy Mode setting, saving BTU heat output and energy costs. Network management interfaces support simultaneous communications via USB port, DB9 serial port and SNMPWEBCARD slot. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. Supports simultaneous detailed monitoring of equipment load levels, self-test data and utility power conditions via all 3 communications interfaces. Includes PowerAlert monitoring software and complete cabling. Emergency Power Off (EPO) interface. 3-stage metered current monitoring and battery charge status LEDs. LED display panel easily rotates for more convenient viewing in rackmount or tower configurations. Data-line surge suppression for dialup, DSL or Ethernet network connection. Utility power and voltage regulation LEDs. Audible alarm. Self-test. Fault-tolerant auto bypass mode. 4-post rackmount accessories included; optional 2-9USTAND tower stand kit and 2POSTRMKITWM 2-post rack & wall-mount accessories available. Field-replaceable, hot-swappable internal batteries and external battery packs. Attractive all-black color scheme.

### Features

- True online, double-conversion power conditioning offers network-grade pure sine wave AC power for critical file servers, internetworking equipment and other sensitive electronics
- Maintains output within 2% of selectable 200/208/220/230/240V at 50/60Hz (+/-0.05Hz)
- Neutralizes hard-to-solve problems like frequency variations, fast electrical impulses, harmonics and other power problems not addressed by other UPS types
- Zero transfer time, on-line, double-conversion and economy-mode operation supported

### Highlights

- 1000VA / 1kVA / 800 watt on-line double-conversion 2U rack/tower UPS
- 200/208/220/230/240V 50/60Hz output; High efficiency economy mode option
- Expandable runtime; Hot-swap batteries; 13.5 in / 34.3cm installed depth
- USB, RS232 & EPO ports; support for SNMP/WEB card options
- Front panel status LEDs with detailed load and battery metering
- C14 inlet, C13 outlets, 2 C13 to C14 power cables included

### Package Includes

- SUINT1000RTXL2UA Rack/Tower UPS System
- PowerAlert Software and Cabling
- 4-Post Rackmount Installation Hardware and Adjustable-Depth Mounting Rails
- Warranty Information and Owner's Manual
- 2 IEC C13 to C14 interconnection cables

- Versatile rack/tower format requires only 2 rack spaces (2U) in rackmount applications
- Maintains AC output at near perfect levels even during extended-duration brownouts as low as 130V and overvoltages to 275V without using battery power. (For loads under 70%, brownout support extends to 130V; for loads over 70%, brownout support extends to 160V)
- During power failures, internal batteries support connected equipment for 12 minutes at half load (500VA / 400W) and 4 minutes at full load (1000VA / 800W)
- Battery backup runtime is expandable with the addition of external 2U or 3U rack/tower battery packs (Part Number BP24V15RT2U (limit 1), BP24V28-2U (limit 1), BP24V70-3U (multi-pack compatible) and BP24V36-2US (multi-pack compatible))
- Some external battery configurations require the use of Tripp Lite's External Battery Configuration Software (see manual)
- Built-in USB port, DB9 serial port and SNMPWEBCARD slot are simultaneously addressable and support comprehensive network management features; USB and DB9 serial cables included
- Included PowerAlert software offers unattended shutdown, remote monitoring and control of UPS system and connected equipment
- Optional SNMPWEBCARD enables remote monitoring and UPS control via SNMP, Web browser or telnet (Part Number: SNMPWEBCARD)
- HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X
- Includes 6 UPS supported IEC-320-C13 output receptacles and two C13 to C14 interconnection cables (additional interconnection cables available - Part Number P004-006)
- IEC320-C14 input connection accepts a variety of detachable cordsets to match country or site-specific wall receptacles
- Fault tolerant electronic bypass maintains utility output during a variety of UPS fault conditions
- Compatible with Tripp Lite's WatchDog software
- Front panel LEDs and audible alarm offer notification of power conditions and full UPS status information
- Optional tower stands allow vertical tower configuration (Part Number 2-9U STAND)
- Built-in Emergency Power Off (EPO) interface with cable
- Optional PDUBHV10 bypass PDU enables hot-swappable UPS replacement with no disruption to connected equipment

## Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	1000
Output kVA capacity (kVA)	1
Output Watt Capacity (watts)	800
Output power factor	0.8
Crest Factor	3:1
Nominal Output Voltage(s) Supported	200V; 220V; 230V; 240V
Nominal Voltage details	230V default
Frequency compatibility	50 / 60 Hz
Frequency compatibility details	Output frequency matches input nominal on startup, defaults to 50 Hz on cold-start
Output voltage regulation (line mode)	+/- 2%
Output voltage regulation (Economy line mode)	+/- 10%
Output voltage regulation (Battery mode)	+/- 2%



Built-in UPS output receptacles	6 C13 outlet(s)
Included output power cables	Includes 2 C13 to C14 power cables
Hot-Swap PDU options	PDUBHV10 (2U / 8 C13 outlets)
Output AC waveform (AC mode)	Sine wave
Output AC waveform (battery mode)	Pure Sine wave
<b>INPUT</b>	
Rated input current (at maximum load)	5.1A (200V), 4.9A (208V), 4.6A (220V), 4.4A (230V), 4.2A (240V)
Nominal Input Voltage(s) Supported	200V AC; 220V AC; 230V AC; 240V AC
UPS input connection type	C14 inlet
UPS input connection description	IEC320-C14 input connection accepts a variety of detachable cordsets to match country or site-specific wall receptacles
Input circuit breaker	8A
Phase	Single-Phase
<b>BATTERY</b>	
Full load runtime (minutes)	4 min. (800w)
Half load runtime (minutes)	12 min. (400w)
Expandable battery runtime	Extended runtime supported via optional external battery packs
External battery pack compatibility	<a href="#">BP24V15RT2U</a> (limit 1); <a href="#">BP24V28-2U</a> (limit 1); <a href="#">BP24V70-3U</a> (multi-pack compatible); <a href="#">BP24V36-2US</a> (multi-pack compatible)
DC system voltage (VDC)	24
Battery recharge rate (included batteries)	Less than 6 hours from 10% to 80%
Replacement battery cartridge (internal UPS battery replacement)	<a href="#">RBC92-2U</a>
Battery Access	Front panel battery access door
Battery replacement description	Hot-swappable, user replaceable batteries
<b>VOLTAGE REGULATION</b>	
Voltage regulation description	Online, double-conversion power conditioning
Overvoltage correction	2% output voltage regulation during overvoltages to 275
Undervoltage correction	2% output voltage regulation during undervoltages to 156
Severe undervoltage correction	2% output voltage regulation during undervoltages to 130 (under 70% load only)
<b>LEDS ALARMS &amp; SWITCHES</b>	
LED Indicators	14 LEDs indicate line power, online mode, economy/bypass mode, on-battery, overload, battery low, replace battery and fault status information; 4-LED meter displays load and battery charge levels; LED panel rotates for viewing in rack/tower formats



Alarms	Audible alarm indicates UPS startup, power-failure, low-battery, overload, UPS fault and remote shutdown conditions
Alarm cancel operation	Power-fail alarm can be silenced using alarm-cancel switch
Switches	2 Switches control off/on power status and alarm-cancel/self-test operation
<b>SURGE / NOISE SUPPRESSION</b>	
UPS AC suppression joule rating	1225
UPS AC suppression response time	Instantaneous
UPS Dataline suppression	1 line TEL/DSL (1 in / 1 out); 10/100Base T Ethernet
EMI / RFI AC noise suppression	Yes
<b>PHYSICAL</b>	
Installation form factors supported with optional accessories	2 post rackmount (2POSTRMKITWM); Wallmount (2POSTRMKITWM); Tower (2-9USTAND)
Primary form factor	Rackmount
UPS / Power Module dimensions in primary form factor (height x width x depth / inches)	3.5 x 17.5 x 13.5
UPS / Power Module dimensions in primary form factor (height x width x depth / cm)	8.9 x 44.4 x 34.3
Rack Height	2U
Secondary form factor	Tower (requires <a href="#">2-9USTAND</a> )
UPS / Power Module weight (lbs)	28
UPS / Power Module weight (kg)	12.7
UPS Shipping dimensions (height x width x depth / inches)	8.8 x 23.8 x 20.2
UPS Shipping dimensions (height x width x depth / cm)	22.2 x 60.3 x 51.4
Shipping weight (lbs)	40.3
Shipping weight (kg)	18.3
Cooling method	Fan
UPS housing material	Steel
<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)	406.4
AC economy mode BTU / hr. (full load)	173.6



Battery mode BTU / hr. (full load)	442.8
AC mode efficiency rating (100% load)	87%
AC economy mode efficiency rating (100% load)	94%
<b>COMMUNICATIONS</b>	
Communications interface	USB (HID enabled); DB9 Serial; Contact closure; EPO (emergency power off); Slot for SNMP/Web interface
Network monitoring port description	Supports detailed monitoring of UPS and site power conditions; DB9 port supports RS232 and contact closure communications
PowerAlert software	Included
Communications cable	USB and DB9 cabling included
WatchDog compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
<b>LINE / BATTERY TRANSFER</b>	
Transfer time	No transfer time (0 ms.) in online, double-conversion mode
Low voltage transfer to battery power (setpoint)	160V (100% load), 130V ( <70% load)
High voltage transfer to battery power (setpoint)	275
<b>SPECIAL FEATURES</b>	
Cold Start (startup in battery mode during a power failure)	Cold-start operation supported
High availability UPS features	Automatic inverter bypass; Hot swappable batteries
Green & high efficiency features	High efficiency economy mode operation; Schedulable daily hours of economy mode operation
<b>CERTIFICATIONS</b>	
UPS Certifications	CE; Tested to SASO (Saudi Arabia)
UPS Certification details	Kuwait
<b>WARRANTY</b>	
Product Warranty Period (Worldwide)	2-year limited warranty

## Related Items

### Optional Products

Model Number	Description	Qty.
<a href="#">SNMPWEBCARD</a>	For remote monitoring and control via SNMP, Web or Telnet	1



<a href="#">ENVIROSENSE</a>	Monitors temperature, humidity and contact-closure inputs. (Requires UPS with SNMPWEBCARD, monitored PDU or switched PDU.)	1
<a href="#">SR SWITCH</a>	Magnetic Door Switch Kit for front and rear doors; requires ENVIROSENSE	1
<a href="#">PDU BHV10</a>	Single-Phase Hot-Swap PDU, 2-2.4kW 10A 200-240V, 2U Horizontal Rackmount, 8 C13 outlets, set of 2 C14 inputs	1
<a href="#">BP24V36-2US</a>	BP24V36-2US - 2U External 24V Rackmount Battery Pack for select Tripp Lite UPS Systems	1
<a href="#">BP24V15RT2U</a>	BP24V15RT2U - External Battery Pack for UPS System	1
<a href="#">BP24V28-2U</a>	BP24V28-2U - External Battery Pack for UPS System	1
<a href="#">BP24V70-3U</a>	BP24V70-3U - External Battery Pack for UPS System	1
<a href="#">AS400CABLE KIT</a>	Power Management Tools - UPS Communication Cable Kit for System i / AS400 / iSeries Servers	1
<a href="#">MODBUSCARD</a>	For remote monitoring and control via MODBUS protocol	1
<a href="#">UPSHDEARKIT</a>	Heavy-Duty 2-post Front Mounting Ear Kit	1
<a href="#">2POSTRMKITWM</a>	Enables 2-Post Rackmount or Wallmount Installation of Select Rackmount UPS Systems	1
<a href="#">2POSTRMKITHD</a>	Enables 2-Post Rackmount Installation of 3U and Larger UPS, Transformer and Battery Pack Components	1

More information, including related products, owner's manuals, and additional technical specifications, can be found online at:  
<http://www.tripplite.com/sku/SUINT1000RTXL2UA>.

© 2014 Tripp Lite. All rights reserved. All trademarks are the sole property of their respective owners. Tripp Lite has a policy of continuous improvement. Specifications are subject to change without notice. Photos may differ slightly from final products.