

## SmartOnline 208/240, 230V 3kVA 2.5kW Double-Conversion UPS, 2U Rack/Tower, Extended Run, Network Card Options, USB, DB9 Serial

MODEL NUMBER: **SUINT3000RTXL2U**



### Description

3000VA / 3kVA / 2500 watt on-line, double-conversion UPS system for critical server, network and telecommunications equipment. 2U rackmount form factor with an installed depth of only 66cm (26 inches). Expandable battery runtime with optional BP72V15-2U (limit 1), BP72V28RT-3U (multi-pack compatible) and BP72V18-2US (multi-pack compatible) external battery packs. Full time sine wave 200/208/220/230/240V output with +/-2% voltage regulation. Uninterruptible Power Supply (UPS) actively converts raw incoming AC power to DC, then re-converts output back to completely regulated, filtered AC output. Operates continuously without using battery power during brownouts to 120V and overvoltages to 288V. Up to 97% efficiency in optional economy mode saves BTU heat output and energy costs. C20 inlet accepts a wide variety of optional cordsets. C19 and C13 output receptacles. Network-grade AC surge and noise suppression. Zero transfer time between AC and battery operation. Network management interfaces include USB port, DB9 serial port and slot for network management card options. Built-in DB9 port offers both enhanced RS-232 enabled monitoring data, plus contact closure monitoring ability. 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 mains power conditions via all network interfaces. PowerAlert monitoring software is available via free download. Emergency Power Off (EPO) interface. Integrated two bank PDU switching supports automated load shedding and remote-reboot of connected equipment. Multi-stage metered current monitoring and battery charge status LEDs. Mains power and voltage regulation LEDs. Audible Alarm. Self-test. Fault-tolerant auto-bypass mode. LED display panel easily rotates for better viewing in rackmount or tower configurations. Includes 4 post rackmount installation accessories. 2-9USTAND tower kit and 2POSTRMKITWM two post rackmount hardware accessories available. Field replaceable, hot swappable internal batteries and external battery packs.

### Features

### Highlights

- 3000VA / 3kVA / 2500 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
- USB, RS232 & EPO ports; Network Management Card Options
- Front panel status LEDs with detailed load and battery metering
- 2 independently switchable output load banks
- C20 inlet; C13 & C19 outlets, 2 C13 to C14 & 1 C19 to C20 power cables included

### Package Includes

- SUINT3000RTXL2U UPS System
- 4 post rackmount installation brackets
- C19 to C20 power cable
- USB, Serial and EPO cabling
- Owner's manual with warranty information



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- SmartOnline high-performance UPS system is ideal for critical voice, data, medical and industrial network applications
- Optional economy-mode operation with 97% efficiency for reduced power consumption and cooler operation
- Economy mode is schedulable via PowerAlert UPS management software for daily or weekly hours of operation to enable precision output during peak operating hours and high efficiency, low BTU emission operation during off-peak times
- Maintains continuous operation through blackouts, voltage fluctuations
- On-line, double-conversion mode provides perfectly regulated sine wave output within 2% of 200/208/220/230/240V (user selectable) with zero transfer time
- Supports operation at 50/60Hz (auto-sensing) with the ability for full-time frequency conversion from 50 to 60Hz or 60 to 50Hz (frequency conversion de-rates UPS capacity by 20%)
- Removes harmonic distortion, fast electrical impulses, frequency variations and other hard to solve power problems not addressed by other UPS types
- Corrects line voltage conditions as low as 120V and as high as 288V to within 2% of selected nominal voltage
- Standard internal battery set offers 15 minutes runtime at half load (1250W) and 6 minutes at full load (2500W)
- Expandable battery runtime with optional BP72V15-2U (limit 1), BP72V28RT-3U (multi-pack compatible) and BP72V18-2US (multi-pack compatible) external battery packs
- Intelligent battery management system extends battery life
- Compact rackmount form factor installs using only 2 rack spaces (2U) with a depth of only 66cm / 26 inches
- Ships with all mounting accessories for 4 post rackmount installation
- Optional 2POSTRMKITWM enables 2 post rackmount installation
- Optional 2-9USTAND accessory enables upright tower placement
- Fault tolerant electronic bypass maintains utility output during a variety of UPS fault conditions
- Network interfaces support simultaneous communications via built-in USB, DB9 serial / contact-closure and slot for network management card options
- Compatible Tripp Lite UPS management card options TLNETCARD, WEBCARDLX and SNMPWEBCARD support a wide variety of UPS control and monitoring capabilities
- 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)
- Built-in Emergency Power Off (EPO) interface with cable
- C20 inlet accepts a wide variety of user supplied input cordsets
- C19 & C13 output receptacles
- Includes 2 C13 to C14 and 1 C19 to C20 power cables
- Integrated 2 bank switched PDU enables remote outlet management for load shedding or remote reboot of individual load banks (each bank has 4 C13 outlets)



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- Front panel LEDs offer current monitoring and battery charge level information
- Network grade AC surge suppression
- Optional PDUBHV20 bypass PDU enables hot-swappable UPS replacement with no disruption to connected equipment
- Field replaceable, hot swappable internal batteries and external battery packs

## Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	3000
Output kVA Capacity (kVA)	3
Output Watt Capacity (Watts)	2500
Output kW Capacity (kW)	3
Output Capacity Details	Max output is reduced to 2400W at 200V, 208V and 220V nominal settings  OVERLOAD CAPACITY: Supports inverter operation up to 100% load continuously, 120% for 30 seconds, 150% for 10 seconds and >150% for 0.1 seconds before switching to BYPASS (when bypass input voltage and frequency are WITHIN bypass limits) or SHUTDOWN (when bypass input voltage or frequency are OUTSIDE bypass limits).
Power Factor	0,8
Crest Factor	3:1
Nominal Output Voltage(s) Supported	200V; 208V; 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. Frequency conversion from 60 to 50 Hz -or- 50 to 60 Hz supported. Output capacity de-rates by 20% during frequency conversion operation.
Output Voltage Regulation (Line Mode)	+/- 2%
Output Voltage Regulation (Economy Line Mode)	-12%, + 10%
Output Voltage Regulation (Battery Mode)	+/- 2%
Output Receptacles	(8) C13; (2) C19
Included Output Power Cables	Includes 2 C13 to C14 and 1 C19 to C20 power cables
Load Management Receptacles	Two switchable 4 C13 outlet load banks
Hot-Swap PDU options	PDUBHV20 (2U / 6 C13, 2 C19 outlets)
Output AC Waveform (AC Mode)	Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
INPUT	



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Rated input current (Maximum Load)	15A (200V); 14.4A (208V); 13.6A (220V); 13A (230V); 12.5A (240V)
Nominal Input Voltage(s) Supported	200V AC; 208V AC; 220V AC; 230V AC; 240V AC
Nominal Input Voltage Description	230V factory configuration
UPS Input Connection Type	C20 inlet
UPS Input Cord Length (ft.)	5
UPS Input Cord Length (m)	1.5
Input Phase	Single-Phase
<b>BATTERY</b>	
Full Load Runtime (min.)	6 min. (2500w)
Half Load Runtime (min.)	15 min. (1250w)
Expandable Battery Runtime	Supports extended runtime with optional external battery packs
External Battery Pack Compatibility	<a href="#">BP72V15-2U~BP72V15-2U</a> (limit 1); <a href="#">BP72V28RT-3U~BP72V28RT-3U</a> (multi-pack compatible); <a href="#">BP72V18-2US~BP72V18-2US</a> (multi-pack compatible)
DC System Voltage (VDC)	72
Battery Recharge Rate (Included Batteries)	Less than 4.8 hours from 10% to 90% (typical, full load discharge)
Internal UPS Replacement Battery Cartridge	<a href="#">RBC96-2U</a>
Battery Access	Front panel battery access door
Battery Replacement Description	Hot-swappable, replaceable batteries
Expandable Runtime	Yes
<b>VOLTAGE REGULATION</b>	
Voltage Regulation Description	Online, double-conversion power conditioning
Overvoltage Correction	2% output voltage regulation during overvoltages to 288
Undervoltage Correction	2% output voltage regulation during undervoltages to 160V
Severe Undervoltage Correction	2% output voltage regulation during undervoltages to 140V (under 66% load only) or 120V (under 33% load only)
<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
Audible Alarm	Audible alarm indicates power failure, low battery, overload, replace battery and EPO operation
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
<b>SURGE / NOISE SUPPRESSION</b>	



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UPS AC Suppression Joule Rating	420
EMI / RFI AC Noise Suppression	Yes
AC Suppression Response Time	Instantaneous
<b>PHYSICAL</b>	
Included Mounting Accessory Description	4 post installation accessories included
Installation Form Factors Supported with Optional Accessories	2 post rackmount (2POSTRMKITWM); Tower (2-9USTAND)
Primary Form Factor	Rackmount
UPS Power Module Dimensions (hwd, in.)	4 x 17 x 26
UPS Power Module Dimensions (hwd, cm)	10.16 x 43.18 x 66.04
Rack Height (U Spaces)	2
Minimum Required Rack Depth (inches)	37
Minimum Required Rack Depth (cm)	93.98
UPS Power Module Weight (lbs.)	71
UPS Power Module Weight (kg)	32.21
Shipping Dimensions (hwd / in.)	8.600 x 22.000 x 32.800
Shipping Dimensions (hwd / cm)	21.84 x 55.88 x 83.31
Shipping Weight (lbs.)	85.2000
Shipping Weight (kg)	38.65
Cooling Method	Fan
UPS Housing Material	Steel
Primary UPS Height (mm)	1,016
Primary UPS Width (mm)	4,318
Primary UPS Depth (mm)	6,604
<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)	956
AC Economy Mode BTU / Hr. (Full Load)	264
Battery Mode BTU / Hr. (Full Load)	1276
AC Mode Efficiency Rating (100% Load)	89%



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AC Economy Mode Efficiency Rating (100% Load)	97%
<b>COMMUNICATIONS</b>	
Communications Interface	USB (HID enabled); DB9 Serial; Contact closure; 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; DB9 port supports RS232 and contact closure communications
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
<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), 140V (66% load), 120V (33% load)
High Voltage Transfer to Battery Power (Setpoint)	288V
<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 Energy-Saving Features	High efficiency economy mode operation; Individually controllable load banks; Schedulable daily hours of economy mode operation
<b>CERTIFICATIONS</b>	
UPS Certifications	CE; Meets FCC Part 15 Category A (EMI); Tested to CSA (Canada); Tested to UL1778 (USA)
<b>WARRANTY</b>	
Product Warranty Period (Worldwide)	2-year limited warranty

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