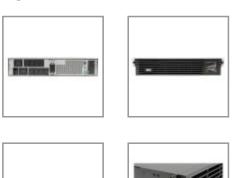# SmartOnline Double-Conversion UPS - 2U, USB, DB9, 230V, 3kVA, 2.5kW, On-Line

MODEL NUMBER: **SUINT3000RTXL2U**

3kVA UPS converts raw incoming AC power to DC, then re-converts DC to fulltime sine wave 230V AC output with zero transfer time.

Features

Double-Conversion UPS Protects Equipment against Damage, Downtime and Data Loss This 230V 2U UPS system protects connected equipment against damage, downtime and data loss due to power outages, voltage fluctuations and transient surges. Featuring a 2500W capacity, high 0.8 power factor, 420 joules of surge suppression, true on-line operation with pure sine wave output and zero transfer time to battery, the SmartOnline® SUINT3000RTXL2U double-conversion UPS provides the highest level of battery backup and AC power protection for critical network closet, computer room and data center equipment.

Individually Controllable Load Banks Let You Access and Control Outlets Eight C13 outlets are even split into two switchable load banks, each allowing you to reboot connected equipment or shed loads remotely. In addition to the C13 outlets, this UPS provides two C19 outlets for powering critical components.

Reliable, Expandable Battery Backup Keeps You Operational Through Power OutagesUPS battery backup keeps connected equipment operational through short power failures, and provides time to save data and perform an orderly system shutdown in case of a prolonged blackout. The field-replaceable, hot-swappable internal battery provides 15 minutes of support at half load and six minutes at full load. During normal operation, incoming utility power keeps the battery fully charged so backup power will be available when needed. For mission-critical applications demanding continuous uptime, the 3kVA UPS can provide expandable runtime with optional external battery packs, such as Tripp Lite's BP72V15-2U (sold separately).

Easily Hot-Swappable with No Expensive Service Calls or Downtime Needed Tripp Lite's optional PDUBHV20 bypass PDU (sold separately) enables hot-swappable UPS replacement with no disruption of power to connected equipment. When making repairs or replacing a battery, no lengthy service calls or downtime are necessary.

Optional WEBCARDLX Network Interface Offers 24/7 Remote Access for Monitoring and Control The optional WEBCARDLX (sold separately) with the latest version of PowerAlert Device Manager firmware (PADM20) provides enhanced remote management capabilities, including customizable dashboard graphs to fit user preferences. The PADM20 upgrade and Tripp Lite's PowerAlert Element Manager (PAEM) software form a powerful tool for expanding maintenance functions in large

Highlights

- Zero transfer time between AC power and battery for uninterrupted operation
- 8 C13 outlets in 2 switchable load banks + 2 C19 outlets power critical equipment
- Field-replaceable internal batteries are hot-swappable for convenient replacement
- Optional external batteries provide additional runtime for essential applications
- Front-panel status LEDs indicate detailed load and battery metering at a glance
- Add optional WEBCARDLX with latest version of PADM20 for IP-based Auto Probe feature

Applications

- Deliver perfectly regulated sine wave output to mission-critical equipment
- Protect connected components from dangerous surges, spikes and line noise
- Keep equipment operational through short power failures
- Allow time to save data and safely shut down components in case of a prolonged blackout

Package Includes

- SUINT3000RTXL2U SmartOnline Double-Conversion UPS
- C19 to C20 power cable, 5 ft.
- USB cable
- DB9 cable
- EPO cable
- Rack-mounting hardware
- Owner's manual

installations, including firmware update checks and backup and restoration of device configurations. Auto Probe allows a UPS with switched loads to automatically reboot devices if a network communication failure is detected. This preserves uptime and minimizes the time and expense associated with on-site support.

Intuitive Front-Panel Interface for Convenient UPS Operation and Monitoring Front-panel LEDs provide information on load and battery levels, operating mode, fault status and other critical data at a glance. The LED panel rotates for comfortable viewing in rack-mount or tower configuration.

Advanced Communications Ports This USB UPS system has USB and DB9 ports (cables are included) that enable data-saving unattended shutdown of connected systems when used with Tripp Lite's free downloadable PowerAlert® software. Capabilities include detailed monitoring of load levels, self-test data and utility power conditions.

Versatile Installation Options Hardware is included for mounting the UPS system in 2U of space in an EIA-standard 19-inch 4-post rack with a depth of only 66 centimeters (26 inches). Use the optional 2POSTRMKITWM (sold separately) for 2-post rack mounting or the optional 2-9USTAND (sold separately) for mounting in an upright tower position. The C20 power inlet accepts a variety of user-supplied input cords.

Specifications

OVERVIEW	
UPC Code	037332198495
UPS Type	On-Line

INPUT	
Input Phase	Single-Phase
Rated input current (Maximum Load)	15A
Nominal Input Voltage(s) Supported	230V 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

OUTPUT	
Output Capacity (VA)	3000
Output Capacity (kVA)	3
Output Capacity (Watts)	2500
Output Capacity (kW)	2.5
Output Capacity Details	OVERLOAD CAPACITY: Supports inverter operation up to 105% load continuously, 125% load for 3 minutes, 150% for 30 seconds and >150% for 0.5 seconds before switching to BYPASS (when bypass input voltage and frequency are WITHIN bypass limits of ±10% and ±5Hz) or SHUTDOWN (when bypass input voltage and frequency are OUTSIDE bypass limits of ±10% and ±5Hz)
Power Factor	0.83

Crest Factor	3:1
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%
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
Nominal Output Voltage(s) Supported	230V
Output Receptacles	(8) C13; (2) C19
Individually Controllable Load Banks	Yes

BATTERY	
Battery Type	Valve Regulated Lead Acid (VRLA)
Runtime Full Load (min.)	6 min. (2500W)
Runtime Half Load (min.)	15 min. (1250W)
Expandable Runtime	Yes
External Battery Pack Compatibility	BP72V15-2U (limit 1); BP72V28RT-3U (multi-pack compatible); BP72V18-2US (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)
Battery Access	Front panel battery access door
Internal UPS Replacement Battery Cartridge	See RBC selector
Battery Replacement Description	Hot-swappable, replaceable batteries

VOLTAGE REGULATION	
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 (70-100% load) / 130V (30-70% load) / 100V (Under 30% load)

USER INTERFACE, ALERTS & CONTROLS	
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

SURGE / NOISE SUPPRESSION	
UPS AC Suppression Joule Rating	570
EMI / RFI AC Noise Suppression	Yes
AC Suppression Response Time	Instantaneous

PHYSICAL	
Primary Form Factor	Rackmount
Rack Height	2U
Cooling Method	Fan
Included Mounting Accessory Description	Included 4POSTRAILKIT mounting bracket enables installation in 4 post racks from 20.5 to 36 inches (521 to 914mm)
Installation Form Factors Supported with Included Accessories	4 post 19 inch rackmount
Installation Form Factors Supported with Optional Accessories	2 post rackmount (2POSTRMKITWM); 2-4 post front rail rackmount (UPSHDEARKIT); 4 post rackmount short-depth (4POSTRAILKITWM); Tower (2-9USTAND); Wallmount (2POSTRMKITWM)
Minimum Required Rack Depth (cm)	71.12
Minimum Required Rack Depth (inches)	28
Minimum Required Rack Depth with External Battery Pack (cm)	77
Minimum Required Rack Depth with External Battery Pack (in.)	30.25
Minimum Required Rack Depth without External Battery Pack (cm)	75
Minimum Required Rack Depth without External Battery Pack (in.)	29.5

Optional Mounting Accessory Notes	Optional 2-9USTAND enables upright tower UPS placement; 2POSTRMKITWM enables wall-mount and 2-post rackmount installation; 4POSTRAILKITWM enables installation in 4-post short-depth racks from 14.5 to 23.5 inches (368 to 597mm); UPSHDEARKIT enables installation in 2 or 4-post racks using front vertical rails only, without rear support
Primary UPS Depth (mm)	616
Primary UPS Height (mm)	88
Primary UPS Width (mm)	438
Shipping Dimensions (hwd / in.)	9.70 x 23.70 x 29.80
Shipping Dimensions (hwd / cm)	24.64 x 60.20 x 75.69
Shipping Weight (lbs.)	84.70
Shipping Weight (kg)	38.42
UPS Housing Material	Steel
UPS Power Module Dimensions (hwd, cm)	8.79 x 43.79 x 61.60
UPS Power Module Dimensions (hwd, in.)	3.46 x 17.24 x 24.25
UPS Power Module Weight (kg)	31.17
UPS Power Module Weight (lbs.)	68.72
Unit Weight (lbs.)	68.720
Unit Weight (kg)	31.17

ENVIRONMENTAL

Operating Temperature Range	32° to 104°F (0° to 40°C)
Storage Temperature Range	5° to 122°F (-15° to 50°C)
Relative Humidity	5 to 95%, non-condensing
AC Mode BTU / Hr. (Full Load)	742
AC Mode Efficiency Rating (100% Load)	92%

COMMUNICATIONS

Network Management Cards	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 software at https://tripplite.eaton.com/products/power-alert
Communications Cable	USB and DB9 cabling included
WatchDog Compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications

Network Management Card Description	Network management card optional
Communications Interface	Contact closure; DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface; USB (HID enabled)

LINE / BATTERY TRANSFER	
Transfer Time	No transfer time (0 ms.) in online, double-conversion mode
Low Voltage Transfer to Battery Power (Setpoint)	160V (70-100% load), 130V (30-70% load), 100V (less than 33% load)
High Voltage Transfer to Battery Power (Setpoint)	288V

FEATURES & SPECIFICATIONS	
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Auto Probe Monitoring and Reboot (requires WEBCARDLX); Automatic inverter bypass; Hot swappable batteries; Remote management; Surge/noise protection; Zero transfer time
Green Energy-Saving Features	High efficiency economy mode operation; Individually controllable load banks
Grounding Details	Grounding screw

APPLICATIONS	
UPS Applications	Mission Critical Applications

STANDARDS & COMPLIANCE	
Product Certifications	RETIE (Colombia); CSA (Canada); UL 1778
Product Compliance	RoHS; CE (Europe); EAC (Belarus, Kazakhstan, Russia); REACH; FCC Part 15 Class A (USA)

WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	2-year limited warranty