

SmartOnline 3kVA On-Line Double-Conversion UPS, 2U Rack/Tower, 200/208/220/230/240V C13/C19 outlets

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 SNMPWEBCARD slot. 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. Includes PowerAlert monitoring software and complete cabling. 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

- 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

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; support for SNMP/WEB 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

Applications

DISTRIBUTED SERVER ROOMS;
 NETWORK CLOSETS; SMALL
 BUSINESS NETWORKS; SMALL
 BUSINESS PHONE SYSTEM

Package Includes

- SUINT3000RTXL2U UPS System
- 4 post rackmount installation brackets
- C19 to C20 power cable
- PowerAlert Software CD and cabling
- Owner's manual with warranty information



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
- 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 SNMPWEBCARD slot
- HID compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. Included PowerAlert UPS monitoring software supports safe unattended shutdown, monitoring and control via local connected servers, plus any number of additional servers over IP
- UPS interface supports on-battery, low-battery, power-restored, AC-voltage, DC-voltage, output current monitoring, battery charge current, battery capacity, AC line frequency, timed inverter shutoff, activate self-test, load bank output power control and remote reboot, UPS nominal voltage adjustment and UPS line to battery power voltage setpoints
- 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)
- 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 Capacity Details | Max output is 3000VA / 2400W at 200, 208, 220V nominal settings |
| Output Volt Amp Capacity (VA) | 3000 |
| Output kVA Capacity (kVA) | 3 |
| Output Watt Capacity (Watts) | 2500 |
| Output kW Capacity (kW) | 2.5 |



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| 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% |
| UPS Output Receptacles | 8 C13 outlet(s); 2 C19 outlet(s) |
| 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 | |
| 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 ft / 1.5m (C19 to C20) |
| Input Phase | Single-Phase |
| BATTERY | |
| 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 | 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) |
| Internal UPS Replacement Battery Cartridge | RBC96-2U |



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| Battery Access | Front panel battery access door |
| 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 |
| Severe Undervoltage Correction | 2% output voltage regulation during undervoltages to 140V (under 66% load only) or 120V (under 33% load only) |
| LEDS ALARMS & SWITCHES | |
| 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 |
| Audible Alarm | Audible alarm indicates power failure, low battery, overload, replace battery and EPO operation |
| 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 |
| SURGE / NOISE SUPPRESSION | |
| UPS AC Suppression Joule Rating | 420 joules |
| EMI / RFI AC Noise Suppression | Yes |
| AC Suppression Response Time | Instantaneous |
| PHYSICAL | |
| 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.) | 3.5 x 17.3 x 26 |
| UPS Power Module Dimensions (hwd, cm) | 8.9 x 43.9 x 66 |
| Rack Height (U Spaces) | 2U |
| UPS Power Module Weight (lbs.) | 70.5 |
| UPS Power Module Weight (kg) | 32 |
| UPS Shipping Dimensions (hwd / in.) | 9 x 22 x 32.8 |
| UPS Shipping Dimensions (hwd / cm) | 22.9 x 55.9 x 83.3 |
| Shipping Weight (lbs.) | 87.9 |
| Shipping Weight (kg) | 39.9 |



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|---|---|
| Cooling Method | Fan |
| UPS Housing Material | Steel |
| ENVIRONMENTAL | |
| 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) | 1000 |
| AC Economy Mode BTU / Hr. (Full Load) | 241 |
| Battery Mode BTU / Hr. (Full Load) | 1500 |
| AC Mode Efficiency Rating (100% Load) | 89% |
| AC Economy Mode Efficiency Rating (100% Load) | 97% |
| COMMUNICATIONS | |
| 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 |
| LINE / BATTERY TRANSFER | |
| 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 |
| SPECIAL FEATURES | |
| 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 |
| CERTIFICATIONS | |
| UPS Certifications | Tested to UL1778 (USA); Tested to CSA (Canada); CE; Meets FCC Part 15 Category A (EMI); TAA Compliant |



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

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