

SmartOnline 120V 3kVA 2.4kW Double-Conversion UPS, 3U, Oversize Batteries, Network Card Slot, USB, DB9, Hardwire

MODEL NUMBER: **SU3000RTXR3UHW**



Description

3000VA / 3kVA online, double-conversion UPS system in 3U rackmount form factor for critical server, network and telecommunications equipment. 3U rackmount form factor with an installed depth of 29.5 inches (75cm). 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 110 or 120V output with +/-2% voltage regulation. Online, double-conversion 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 65V and overvoltages to 150V. Hardwired AC input and output (L-N-G, 120V). Highly efficient operation in optional economy mode setting, saves BTU heat output and energy costs. Network-grade AC surge and noise suppression. Zero transfer time between AC and battery operation. Network management interfaces support simultaneous communications via USB port, DB9 serial port and slot for network management card options. Includes USB and DB9 serial ports. 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 3 network interfaces. PowerAlert UPS monitoring software is available via free download. Emergency Power Off (EPO) interface. Multi-stage metered current monitoring and battery charge status LEDs. LED display panel easily rotates for better viewing in rackmount or tower configurations. Dataline surge suppression for dialup, DSL or network ethernet connection. Mains power and voltage regulation LEDs. Audible Alarm. Self-test. Fault-tolerant auto-bypass mode. 4 post rackmount accessories included [2-9USTAND](#) tower kit and [2POSTRMKITHD](#) 2-post rackmount accessories available. Field replaceable, hot swappable internal batteries and external battery packs. Attractive all-black UPS design. \$250,000 Ultimate Lifetime Insurance (U.S., Canada, and Puerto Rico only).

Features

- 3000VA / 3kVA / 2400 watt online, double-conversion UPS system in 3U rackmount form factor for critical server, network and telecommunications equipment
- True online, double-conversion UPS provides perfectly regulated sine wave output within 2% of 110/120V (user selectable) under all usage conditions
- Maintains continuous operation through blackouts, voltage fluctuations and surges with zero transfer time
- Removes harmonic distortion, fast electrical impulses, frequency variations and other hard to solve power problems not addressed by other UPS types

Highlights

- 3000VA / 3kVA / 2400 watt on-line double-conversion 3U rack / tower UPS
- 110/120V +/-2% output at 50/60Hz, high efficiency economy mode option
- Oversize internal batteries, Expandable runtime, Hot-swappable batteries
- USB, RS232 & EPO ports; slot for network management card options
- Front panel status LEDs with detailed load and battery metering
- Hardwire input & output connections

Package Includes

- SU3000RTXR3UHW UPS System
- USB, DB9 and EPO cabling
- Owner's manual with warranty information



- Corrects line voltage conditions as low as 65V and as high as 150V back to selectable 110/120V (+/-2%) values
- Highly efficient operation in optional economy mode setting, saving BTU heat output and energy costs
- Internal battery set offers 30 minutes runtime at half load (1200W) and 12 minutes at full load (2400W)
- 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
- Some external battery configurations require the use of Tripp Lite's External Battery Configuration Software (see manual)
- Compact rackmount form factor installs using only 3 rack spaces (3U) with a maximum installed depth of 26 inches
- Ships with all mounting accessories for 4 post rackmount installation
- Optional [2POSTRMKITHD](#) enables 2 post rackmount installation
- Optional [2-9USTAND](#) accessory enables small-footprint 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 with Tripp Lite UPS management card options [TLNETCARD](#), [WEBCARDLX](#), [SNMPWEBCARD](#), [MODBUSCARD](#) and [RELAYIOCARD](#)
- HID compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X
- 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
- Built-in Emergency Power Off (EPO) interface with cable
- Hardwire 120V AC input/output (L-N-G)
- Front panel LEDs offer current monitoring and battery charge level information
- Single line TEL/DSL or network ethernet line surge suppression
- \$250,000 Ultimate Lifetime Insurance (U.S., Canada, and Puerto Rico only)

Specifications

| OUTPUT | |
|---------------------------------------|--|
| Output Volt Amp Capacity (VA) | 3000 |
| Output kVA Capacity (kVA) | 3 |
| Output Watt Capacity (Watts) | 2400 |
| Output kW Capacity (kW) | 2.4 |
| Output Capacity Details | OVERLOAD CAPACITY: Supports inverter operation up to 105% load continuously, 125% load for 3 minutes; 150% load for 30 seconds and >150% load for 0.5 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 | 110V; 120V |
| Nominal Voltage Details | 120V default |
| Frequency Compatibility | 50 / 60 Hz |
| Frequency Compatibility Details | Output frequency matches input nominal on startup, defaults to 60 Hz on cold-start |
| Output Voltage Regulation (Line Mode) | +/- 2% |



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| Output Voltage Regulation (Economy Line Mode) | +/- 10% |
| Output Voltage Regulation (Battery Mode) | +/- 2% |
| Output Receptacles | Hardwire |
| Output AC Waveform (AC Mode) | Sine wave |
| Output AC Waveform (Battery Mode) | Pure Sine wave |
| INPUT | |
| Rated input current (Maximum Load) | 24A |
| Nominal Input Voltage(s) Supported | 110V AC; 120V AC |
| UPS Input Connection Type | Hardwire |
| Recommended Electrical Service | 30A 120V (L-N-G) |
| Input Phase | Single-Phase |
| BATTERY | |
| Full Load Runtime (min.) | 12 min. (2400w) |
| Half Load Runtime (min.) | 30 min. (1200w) |
| 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 6 hours from 10% to 80% (typical, full load discharge) |
| Internal UPS Replacement Battery Cartridge | RBC96-3U(quantity 2) |
| Battery Access | Front panel battery access door |
| Battery Replacement Description | Hot-swappable, user replaceable batteries |
| Expandable Runtime | Yes |
| VOLTAGE REGULATION | |
| Voltage Regulation Description | Online, double-conversion power conditioning |
| Overvoltage Correction | 2% output voltage regulation during overvoltages to 150 |
| Undervoltage Correction | 2% output voltage regulation during undervoltages to 80 |
| Severe Undervoltage Correction | 2% output voltage regulation during undervoltages to 65 (under 70% load only) |
| 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 |



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| Audible Alarm | Audible alarm indicates UPS startup, power-failure, low-battery, overload, UPS fault and remote shutdown conditions |
| 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 | 480 |
| 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 |
| PHYSICAL | |
| Included Mounting Accessory Description | Includes 4 post rackmount installation accessories |
| Installation Form Factors Supported with Optional Accessories | 2 post rackmount(2POSTRMKITHD); Tower(2-9USTAND) |
| Optional Mounting Accessory Notes | Wallmount installation not recommended |
| Primary Form Factor | Rackmount |
| UPS Power Module Dimensions (hwd, in.) | 5.2 x 17.8 x 29.5 |
| UPS Power Module Dimensions (hwd, cm) | 13.21 x 45.21 x 74.93 |
| Rack Height (U Spaces) | 3 |
| Minimum Required Rack Depth (inches) | 40.5 |
| Minimum Required Rack Depth (cm) | 102.87 |
| UPS Power Module Weight (lbs.) | 111.3 |
| UPS Power Module Weight (kg) | 50.48 |
| UPS Shipping Dimensions (hwd / in.) | 11.2 x 31.5 x 23 |
| UPS Shipping Dimensions (hwd / cm) | 28.45 x 80.01 x 58.42 |
| Shipping Weight (lbs.) | 149.9 |
| Shipping Weight (kg) | 68.1 |
| Cooling Method | Fan |
| UPS Housing Material | Steel |
| Minimum Required Rack Depth (mm) | 1029 |
| Primary UPS Height (mm) | 132 |
| Primary UPS Width (mm) | 452 |
| Primary UPS Depth (mm) | 749 |



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| Shipping Height (mm) | 284 |
| Shipping Width (mm) | 800 |
| Shipping Depth (mm) | 584 |
| 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) | 1117 |
| AC Economy Mode BTU / Hr. (Full Load) | 253 |
| Battery Mode BTU / Hr. (Full Load) | 1224 |
| AC Mode Efficiency Rating (100% Load) | 88% |
| 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 Management Cards | SNMPWEBCARD ; TLNETCARD ; WEBCARDLX ; MODBUSCARD ; RELAYIOCARD |
| Network Monitoring Port Description | Supports detailed monitoring of UPS and site power conditions; DB9 port supports RS232 and contact closure communications; Economy-mode setting option is available using PowerAlert software and DB9 Serial cable connection OR via select Network Management Card options |
| PowerAlert Software | For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert |
| 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) | 80V (100% load), 65V (<70% load) |
| High Voltage Transfer to Battery Power (Setpoint) | 150 |
| 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; Schedulable daily hours of economy mode operation |



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| CERTIFICATIONS | |
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| UPS Certifications | Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category A (EMI) |
| WARRANTY | |
| Product Warranty Period (Worldwide) | 2-year limited warranty |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico) | \$250,000 Ultimate Lifetime Insurance |

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<https://www.tripplite.com/products/product-certification-agencies>