

## 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 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; 2-9U STAND 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 120V 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
- Corrects line voltage conditions as low as 65V and as high as 150V back to 120V (+/-2%) values

### Highlights

- 3000VA / 3kVA / 2400 watt on-line double-conversion 3U rack / tower UPS
- 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



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- 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 [tripplite.eaton.com/products/power-alert](http://tripplite.eaton.com/products/power-alert)
- 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

OVERVIEW	
UPC Code	037332164636
UPS Type	On-Line
INPUT	
Input Phase	Single-Phase
Rated input current (Maximum Load)	24A
Nominal Input Voltage(s) Supported	120V AC
UPS Input Connection Type	Hardwire
Recommended Electrical Service	30A 120V (L-N-G)
OUTPUT	
Output Capacity (VA)	3000
Output Capacity (kVA)	3
Output Capacity (Watts)	2400

Output 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
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%
Output Voltage Regulation (Economy Line Mode)	+/- 10%
Output Voltage Regulation (Battery Mode)	+/- 2%
Output AC Waveform (AC Mode)	Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
Nominal Output Voltage(s) Supported	120V
Output Receptacles	Hardwire
Individually Controllable Load Banks	No
<b>BATTERY</b>	
Battery Type	Valve Regulated Lead Acid (VRLA)
Runtime Full Load (min.)	12 min. (2400W)
Runtime Half Load (min.)	30 min. (1200W)
Expandable Runtime	Yes
External Battery Pack Compatibility	&nbsp;<a class="productLink" href="//tripplite.eaton.com/External-72V-2U-RackTower-Battery-Pack-for-Select-Tripp-Lite-UPS-Systems~BP72V15-2U">BP72V15-2U</a>&nbsp; (limit 1); BP72V28RT-3U (multi-pack compatible); &nbsp;<a class="productLink" href="//tripplite.eaton.com/External-72V-2U-Rack-Tower-Battery-Pack-for-Tripp-Lite-UPS-Systems~BP72V18-2US">BP72V18-2US</a>&nbsp; (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)
Battery Access	Front panel battery access door
Internal UPS Replacement Battery Cartridge	&nbsp;<a class="productLink" href="//tripplite.eaton.com/3U-UPS-Replacement-72VDC-Battery-Cartridge-1-set-6-select-Tripp-Lite-SmartOnline-UPS~RBC96-3U">RBC96-3U</a>&nbsp; (quantity 2)
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 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)
<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 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
<b>SURGE / NOISE SUPPRESSION</b>	
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
<b>PHYSICAL</b>	
Primary Form Factor	Rackmount
Rack Height	3U
Cooling Method	Fan
Included Mounting Accessory Description	Includes 4 post rackmount installation accessories
Installation Form Factors Supported with Included Accessories	4 post 19 inch rackmount
Installation Form Factors Supported with Optional Accessories	2 post rackmount ( <a href="http://tripplite.eaton.com/2-Post-Rack-Mount-Installation-Kit-3U-Larger-UPS-Transformer-Battery-Pack-Components-2POSTRMKITHD">2-Post-Rack-Mount-Installation-Kit-3U-Larger-UPS-Transformer-Battery-Pack-Components-2POSTRMKITHD</a> ); Tower ( <a href="http://tripplite.eaton.com/2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems-2-9USTAND">2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems-2-9USTAND</a> )
Minimum Required Rack Depth (cm)	73.66
Minimum Required Rack Depth (inches)	29
Minimum Required Rack Depth with External Battery Pack (cm)	90
Minimum Required Rack Depth with External Battery Pack (in.)	35.5
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	Wallmount installation not recommended
Primary UPS Depth (mm)	749
Primary UPS Height (mm)	132
Primary UPS Width (mm)	452

Shipping Dimensions (hwd / in.)	12.00 x 23.50 x 33.00
Shipping Dimensions (hwd / cm)	30.48 x 59.69 x 83.82
Shipping Weight (lbs.)	150.00
Shipping Weight (kg)	68.04
UPS Housing Material	Steel
UPS Power Module Dimensions (hwd, cm)	13.21 x 45.21 x 74.93
UPS Power Module Dimensions (hwd, in.)	5.2 x 17.8 x 29.5
UPS Power Module Weight (kg)	50.48
UPS Power Module Weight (lbs.)	111.3
<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)	1117
AC Economy Mode BTU / Hr. (Full Load)	253
AC Mode Efficiency Rating (100% Load)	88%
AC Economy Mode Efficiency Rating (100% Load)	97%
Battery Mode Heat Dissipation (BTU/Hr) @ Full Load	1224
<b>COMMUNICATIONS</b>	
Network Management Cards	SNMPWEBCARD; &nbsp;<a class="productLink" href="//tripplite.eaton.com/Web-Management-Accessory-Card-SmartPro-SmartOnline-UPS-Systems-TLNETCARD">TLNETCARD</a>&nbsp;; WEBCARDLX; &nbsp;<a class="productLink" href="//tripplite.eaton.com/MODBUS-Management-Accessory-Card-UPS-Remote-Monitoring-Control-MODBUSCARD">MODBUSCARD</a>&nbsp;; &nbsp;<a class="productLink" href="//tripplite.eaton.com/Programmable-Relay-I-O-Card-RELAYIOCARD">RELAYIOCARD</a>&nbsp;;
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 software at <a href="https://tripplite.eaton.com/products/power-alert">https://tripplite.eaton.com/products/power-alert</a>
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)
<b>LINE / BATTERY TRANSFER</b>	
Transfer Time	No transfer time (0 ms.) in online, double-conversion mode



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Low Voltage Transfer to Battery Power (Setpoint)	80V (100% load), 65V ( <70% load)
High Voltage Transfer to Battery Power (Setpoint)	150
<b>FEATURES &amp; SPECIFICATIONS</b>	
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Auto Probe Monitoring (requires WEBCARDLX); Automatic inverter bypass; Expandable battery backup; Hot swappable batteries; On-Line/Double-Conversion; Remote management; Sine wave output; Surge/noise protection; Zero transfer time
Green Energy-Saving Features	High efficiency economy mode operation; Schedulable daily hours of economy mode operation
<b>APPLICATIONS</b>	
UPS Applications	Mission Critical Applications
<b>STANDARDS &amp; COMPLIANCE</b>	
Product Certifications	CSA (Canada); NOM (Mexico); UL 1778
Product Compliance	RoHS; FCC Part 15 Class A (USA)
<b>WARRANTY &amp; SUPPORT</b>	
Product Warranty Period (Worldwide)	2-year limited warranty
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$250,000&nbsp;<a class="insuranceLink" href="//tripplite.eaton.com/support/insurance-policy">Ultimate Lifetime Insurance</a>&nbsp;

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