

SmartOnline 120V 3kVA 2.4kW Double-Conversion UPS, 3U Rack/Tower, Extended Run, Network Card Options, USB, DB9 Serial

MODEL NUMBER: SU3000RTXL3U



Description

3000VA on-line, double-conversion UPS system for critical server, network and telecommunications equipment. 3U rackmount form factor with an installed depth of 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 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. Highly efficient operation in optional economy mode saves BTU heat output and energy costs. NEMA L5-30P input plug. NEMA 5-15, NEMA 5-15/20R and NEMA L5-30R output receptacles. 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. 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 utility power conditions via all 3 network interfaces. PowerAlert UPS monitoring software is available via free download. Emergency Power Off (EPO) interface. Integrated two-bank PDU switching supports load shedding and remote reboot of connected equipment. 3-stage metered current monitoring and battery charge status LEDs. LED display panel easily rotates for viewing in rackmount or tower configurations. Dataline surge suppression for dialup, DSL or network Ethernet connection. Utility 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 color scheme. \$250,000 Ultimate Lifetime Insurance (U.S., Canada, and Puerto Rico only).

Features

- SmartOnline high performance UPS system is ideal for critical voice, data, medical and industrial network applications
- True on-line, 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
- Highly efficient operation in optional economy mode setting, saving BTU heat output and energy costs
- Removes harmonic distortion, fast electrical impulses, frequency variations and other hard to solve

Highlights

- 3000VA / 3kVA / 2400 watt on-line double-conversion 3U rack/tower UPS
- 120V +/-2% output at 50/60Hz, high efficiency economy mode option
- Expandable runtime, Hot-swap batteries, 26 in. / 66cm installed depth
- USB, RS232 & EPO ports; slot for network management card options
- Front panel status LEDs with detailed load and battery metering
- 2 independently switchable output load banks
- NEMA L5-30P input; L5-30R, 5-15/20R & 5-15R outlets
- To use the Auto Probe feature, this product requires a WEBCARDLX network interface (sold separately) running LX firmware update 15.5.2 or later

Package Includes

- SU3000RTXL3U UPS System
- USB, DB9 and EPO cabling
- Mounting hardware for 4 post rack enclosures
- Instruction manual

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
- Standard internal battery set offers 14 minutes runtime at half load (1200W) and 5 minutes at full load (2400W)
- Expandable battery runtime with optional BP72V15-2U (limit 1), BP72V28RT-3U (multi-pack compatible) and BP72V18-2US (multi-pack compatible) external battery packs
- Some external battery configurations require the use of External Battery Configuration Software (see manual)
- Intelligent battery management system extends battery life
- Compact rack-mount 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 rack-mount installation
- Optional 2POSTRMKITHD enables 2-post rack-mount installation (not wallmount compatible)
- 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 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 macOS
- USB & Serial ports enable data-saving unattended shutdown when used with PowerAlert software, available via FREE download from tripplite.eaton.com/products/power-alert
- Built-in Emergency Power Off (EPO) interface with cable
- NEMA L5-30P input plug; NEMA 5-15/20R & L5-30R output receptacles
- Integrated 2 bank switched PDU enables remote outlet management for load shedding or remote reboot of individual load banks (each bank has four outlets)
- Front panel LEDs offer current monitoring and battery charge level information
- UPS ships fully assembled in full compliance with DOT regulations; no time consuming connection of internal batteries by user required
- 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 | 037332117991 |
| 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 | L5-30P |
| Input Circuit Breakers | 40A |
| UPS Input Cord Length (ft.) | 10 |

| | |
|---|--|
| UPS Input Cord Length (m) | 3.1 |
| Recommended Electrical Service | 30A 120V |
| 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% |
| Load Management Receptacles | Two switchable four-outlet load banks, (bank 1 - four 5-15/20R, bank 2 - four 5-15R outlets) |
| Output Circuit Breakers | 15A branch rated (x2) - each breaker protects 4 outlets, L5-30R is unbreakered |
| Output AC Waveform (AC Mode) | Pure Sine wave |
| Output AC Waveform (Battery Mode) | Pure Sine wave |
| Nominal Output Voltage(s) Supported | 120V |
| Output Receptacles | (4) 5-15R; (4) 5-15/20R; (1) L5-30R |
| Individually Controllable Load Banks | Yes |
| BATTERY | |
| Battery Type | Valve Regulated Lead Acid (VRLA) |
| Runtime Full Load (min.) | 5 min. (2400W) |
| Runtime Half Load (min.) | 14 min. (1200W) |
| Expandable Runtime | Yes |
| External Battery Pack Compatibility | BP72V15-2U BP72V18-2US BP72V15-2U BP72V18-2US BP72V15-2U (limit 1); BP72V28RT-3U (multi-pack compatible); BP72V18-2US BP72V15-2U (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 | RBC96-3U </td></tr> <tr> <td="">Battery Replacement Description</tr>> | Hot-swappable, user replaceable batteries |
| 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 | |
| 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 | 510 | |
| 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 | | |
| 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 (2POSTRMKITHD </td></tr> <tr> <td="">Minimum Required Rack Depth (cm)</tr>> | 73.66 |



Powering Business Worldwide



| | |
|---|----------------------------|
| Minimum Required Rack Depth with External Battery Pack (cm) | 81 |
| Minimum Required Rack Depth with External Battery Pack (in.) | 32 |
| Minimum Required Rack Depth without External Battery Pack (cm) | 79 |
| Minimum Required Rack Depth without External Battery Pack (in.) | 31 |
| Primary UPS Depth (mm) | 660 |
| Primary UPS Height (mm) | 132 |
| Primary UPS Width (mm) | 452 |
| Shipping Dimensions (hwd / in.) | 10.00 x 23.00 x 33.00 |
| Shipping Dimensions (hwd / cm) | 25.40 x 58.42 x 83.82 |
| Shipping Weight (lbs.) | 112.00 |
| Shipping Weight (kg) | 50.80 |
| UPS Housing Material | Steel |
| UPS Power Module Dimensions (hwd, cm) | 13.21 x 45.21 x 66.04 |
| UPS Power Module Dimensions (hwd, in.) | 5.2 x 17.8 x 26 |
| UPS Power Module Weight (kg) | 33.48 |
| UPS Power Module Weight (lbs.) | 73.8 |
| Unit Weight (lbs.) | 73.8500 |
| Unit Weight (kg) | 33.50 |
| 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 | 0 to 95%, non-condensing |
| AC Mode BTU / Hr. (Full Load) | 1117 |
| AC Economy Mode BTU / Hr. (Full Load) | 523 |
| AC Economy Mode Efficiency Rating (100% Load) | 94% |
| Online Mode Heat Dissipation (BTU/Hr) @ Full Load | 1117 |
| Battery Mode Heat Dissipation (BTU/Hr) @ Full Load | 1224 |
| COMMUNICATIONS | |

| | |
|---|--|
| Network Management Cards | TLNETCARD & WEBCARDLXE & 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 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) | 80V (100% load), 65V (<70% load) |
| High Voltage Transfer to Battery Power (Setpoint) | 150 |
| 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; Schedulable daily hours of economy mode operation |
| APPLICATIONS | |
| UPS Applications | Mission Critical Applications |
| STANDARDS & COMPLIANCE | |
| Product Certifications | CSA (Canada); NOM (Mexico); UL 1778 |
| Product Compliance | RoHS; FCC Part 15 Class A (USA) |
| WARRANTY & SUPPORT | |
| Product Warranty Period (Worldwide) | 2-year limited warranty |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico) | \$250,000 & Ultimate Lifetime Insurance |



Powering Business Worldwide



1000 Eaton Boulevard
Cleveland, OH 44122
United States
<https://tripplite.eaton.com>

© 2024 Eaton. All Rights Reserved.
Eaton is a registered trademark. All other trademarks
are the property of their respective owners.