

## SmartOnline 200-240V 3kVA 2.4kW On-Line Double-Conversion UPS, Extended Run, SNMP, Webcard, 3U Rack/Tower, DB9 Serial

MODEL NUMBER: **SU3000RTXL3UHV**



### Description

3000VA / 3kVA on-line, double-conversion UPS system for critical server, network and telecommunications equipment. 3U rackmount form factor with an installed depth of 20 inches (50.8cm). Expandable battery runtime with optional external battery packs BP72V15-2U (limit 1), BP72V28RT-3U (multi-pack compatible) and BP72V18-2US (multi-pack compatible). Full time sine wave 200/208/220/240V AC 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 130V and overvoltages to 275V. NEMA L6-20P input plug. NEMA 6-15/20R & L6-20R output receptacles. Network-grade AC surge and noise suppression. Zero transfer time between AC and battery operation. Network management interfaces support simultaneous communications via DB9 serial port and SNMPWEBCARD slot. Built-in DB9 port offers both enhanced RS-232 enabled monitoring data, plus contact closure monitoring ability. 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. Integrated two bank PDU switching supports 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. 4 post rackmount accessories included; 2-9USTAND tower kit and 2POSTRMKITWM 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

- True on-line, double conversion UPS provides pure, sine wave AC output at all times
- Maintains continuous operation through blackouts, voltage fluctuations and surges with zero transfer time
- Removes harmonic distortion, electrical impulses, frequency variations and other hard to solve power problems
- Accepts input voltages between 160 and 275 (130 to 275 at loads under 70%), regulating output to selectable 200/208/220/240V +/-2%
- 3000VA/2400 watt power capacity with 8 total outlets (6 NEMA6-15/20R & 2 NEMA6-20R)
- Standard internal battery set provides 14 minutes runtime at half load

### Highlights

- 3000VA / 3kVA / 2400 watt on-line double-conversion 3U rack/tower UPS
- 208/240V +/-2% output at 50/60Hz
- Expandable runtime, Hot-swappable battery modules
- RS232 port; support for SNMP/WEB card options
- Front panel status LEDs with detailed load and battery metering
- NEMA L6-20P input; 6-15/20R & L6-20R outlets

### Applications

- Distributed Server Rooms
- Network Closets
- Small Business Networks
- Voice over IP (VoIP) Phone Systems

### Package Includes

- SU3000RTXL3UHV Rack-Tower UPS System
- PowerAlert Software and cabling
- Mounting hardware for 4 post rackmount enclosures
- Warranty information
- Instruction manual



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- Expandable runtime with external battery packs BP72V15-2U (limit 1), BP72V28RT-3U (multi-pack compatible) and BP72V18-2US (multi-pack compatible)
- Innovative design makes unit adaptable for rackmount, tower, or stacking applications
- Uses only 3 rack spaces (3U) in standard 19 inch rack
- DB9 serial port for network interface; SNMP compatible
- Slot for optional SNMP/web card (part# SNMPWEBCARD)
- PowerAlert unattended shutdown software and 6 ft. network cable included
- Compatible with Tripp Lite's Watchdog Service Monitoring/Reboot Software
- Fault tolerant electronic bypass maintains utility output during a variety of UPS fault conditions
- Diagnostic LEDs
- Battery replacement door
- Mounting hardware included for 4 post rack enclosures, tower placement supported with optional 2-9USTAND accessory, 2 post telecom rack compatible with optional 2POSTRMKITHD accessory
- \$250,000 Ultimate Lifetime Insurance (U.S., Canada, and Puerto Rico only)

## Specifications

| SELECTOR                            |                                                                                                                        |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Selector Type                       | UPS SYSTEMS                                                                                                            |
| General Info                        |                                                                                                                        |
| Product Group                       | UPS SYSTEMS                                                                                                            |
| TAA Compliant                       | No                                                                                                                     |
| OVERVIEW                            |                                                                                                                        |
| UPS Family                          | SmartOnline                                                                                                            |
| UPS Type                            | On-Line                                                                                                                |
| OUTPUT                              |                                                                                                                        |
| Output Capacity Details             | Supports up to 105% load continuously in double conversion mode, 106 to 125% for 1 minute, 126% to 150% for 30 seconds |
| Output Volt Amp Capacity (VA)       | 3000                                                                                                                   |
| Output kVA Capacity (kVA)           | 3                                                                                                                      |
| Output Watt Capacity (Watts)        | 2400                                                                                                                   |
| Output kW Capacity (kW)             | 2.4                                                                                                                    |
| Power Factor                        | 0.8                                                                                                                    |
| Crest Factor                        | 3:1                                                                                                                    |
| Nominal Output Voltage(s) Supported | 200V; 208V; 220V; 240V                                                                                                 |
| Nominal Voltage Details             | 208V default                                                                                                           |



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|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 (Battery Mode)   | +/- 2%                                                                                                                                          |
| Output Receptacles                         | (6) 6-15/20R; (2) L6-20R                                                                                                                        |
| Load Management Receptacles                | Two switchable 6-15/20R load banks (bank 1 - two outlets, bank 2 - four outlets)                                                                |
| Output AC Waveform (AC Mode)               | Pure Sine wave                                                                                                                                  |
| Output AC Waveform (Battery Mode)          | Pure Sine wave                                                                                                                                  |
| <b>INPUT</b>                               |                                                                                                                                                 |
| Rated input current (Maximum Load)         | 14.9A (200V), 14.3A (208V), 13.1A (220V), 12.1A (240V)                                                                                          |
| Nominal Input Voltage(s) Supported         | 200V AC; 208V AC; 220V AC; 240V AC                                                                                                              |
| UPS Input Connection Type                  | L6-20P                                                                                                                                          |
| Input Circuit Breakers                     | 25A double pole                                                                                                                                 |
| UPS Input Cord Length (ft.)                | 10                                                                                                                                              |
| UPS Input Cord Length (m)                  | 3                                                                                                                                               |
| Recommended Electrical Service             | 20A                                                                                                                                             |
| Input Phase                                | Single-Phase                                                                                                                                    |
| <b>BATTERY</b>                             |                                                                                                                                                 |
| Full Load Runtime (min.)                   | 5 min. (2400w)                                                                                                                                  |
| Half Load Runtime (min.)                   | 14 min. (1200w)                                                                                                                                 |
| Expandable Battery Runtime                 | Supports extended runtime with optional external battery packs                                                                                  |
| External Battery Pack Compatibility        | <a href="#">BP72V15-2U</a> (limit 1); <a href="#">BP72V28RT-3U</a> (multi-pack compatible); <a href="#">BP72V18-2US</a> (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 | <a href="#">RBC96-3U</a>                                                                                                                        |
| Battery Access                             | Front panel battery access door                                                                                                                 |
| Battery Replacement Description            | Hot-swappable, user replaceable batteries                                                                                                       |
| Expandable Runtime                         | Yes                                                                                                                                             |
| <b>VOLTAGE REGULATION</b>                  |                                                                                                                                                 |
| Voltage Regulation Description             | Online, double-conversion power conditioning                                                                                                    |
| Overvoltage Correction                     | Maintains output during overvoltages to 275                                                                                                     |



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|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Undervoltage Correction                                       | Maintains output during undervoltages to 160V AC                                                                                                                                                                                                 |
| Severe Undervoltage Correction                                | At load levels less than 70%, UPS maintains output during undervoltages to 130V AC                                                                                                                                                               |
| <b>LEDS ALARMS &amp; SWITCHES</b>                             |                                                                                                                                                                                                                                                  |
| LED Indicators                                                | 14 LEDs indicate line power, online mode, 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 UPS startup, power-failure, low-battery, overload, UPS fault and remote shutdown conditions                                                                                                                              |
| 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                                                                                                                                                                      |
| <b>SURGE / NOISE SUPPRESSION</b>                              |                                                                                                                                                                                                                                                  |
| UPS AC Suppression Joule Rating                               | 2670                                                                                                                                                                                                                                             |
| UPS AC Suppression Response Time                              | Instantaneous                                                                                                                                                                                                                                    |
| EMI / RFI AC Noise Suppression                                | Yes                                                                                                                                                                                                                                              |
| <b>PHYSICAL</b>                                               |                                                                                                                                                                                                                                                  |
| Included Mounting Accessory Description                       | Includes 4 post rackmount installation accessories                                                                                                                                                                                               |
| Installation Form Factors Supported with Optional Accessories | 2 post rackmount (2POSTRMKITHD); Tower (2-9USTAND)                                                                                                                                                                                               |
| Primary Form Factor                                           | Rackmount                                                                                                                                                                                                                                        |
| UPS Power Module Dimensions (hwd, in.)                        | 5.2 x 17.3 x 19.8                                                                                                                                                                                                                                |
| UPS Power Module Dimensions (hwd, cm)                         | 13.2 x 43.9 x 50.3                                                                                                                                                                                                                               |
| Rack Height (U Spaces)                                        | 3                                                                                                                                                                                                                                                |
| UPS Power Module Weight (lbs.)                                | 74.9                                                                                                                                                                                                                                             |
| UPS Power Module Weight (kg)                                  | 34                                                                                                                                                                                                                                               |
| UPS Shipping Dimensions (hwd / in.)                           | 13.3 x 23.8 x 25.7                                                                                                                                                                                                                               |
| UPS Shipping Dimensions (hwd / cm)                            | 33.8 x 60.5 x 65.3                                                                                                                                                                                                                               |
| Shipping Weight (lbs.)                                        | 90.3                                                                                                                                                                                                                                             |
| Shipping Weight (kg)                                          | 41                                                                                                                                                                                                                                               |
| Cooling Method                                                | Fan                                                                                                                                                                                                                                              |
| UPS Housing Material                                          | Steel                                                                                                                                                                                                                                            |
| <b>ENVIRONMENTAL</b>                                          |                                                                                                                                                                                                                                                  |
| Operating Temperature Range                                   | +32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius                                                                                                                                                                                        |



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| 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)                               | 1112.7                                                                                                                    |
| Battery Mode BTU / Hr. (Full Load)                          | 1219.3                                                                                                                    |
| AC Mode Efficiency Rating (100% Load)                       | 88%                                                                                                                       |
| <b>COMMUNICATIONS</b>                                       |                                                                                                                           |
| Communications Interface                                    | DB9 Serial; Contact closure; 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 |
| Communications Cable                                        | DB9 cable included                                                                                                        |
| WatchDog Compatibility                                      | Supports Watchdog application, OS and hard-reboot restart options for remote applications                                 |
| <b>LINE / BATTERY TRANSFER</b>                              |                                                                                                                           |
| Transfer Time                                               | No transfer time (0 ms.) in online, double-conversion mode                                                                |
| Low Voltage Transfer to Battery Power (Setpoint)            | 160V (100% load), 130V ( <70% load)                                                                                       |
| High Voltage Transfer to Battery Power (Setpoint)           | 275                                                                                                                       |
| <b>SPECIAL FEATURES</b>                                     |                                                                                                                           |
| 3kVA Hotswap Video Ad Flag                                  | 0                                                                                                                         |
| Console Server Demo LP Ad Flag                              | 0                                                                                                                         |
| Charging Station Video Ad Flag                              | 0                                                                                                                         |
| US & Canada Only Flag                                       | 0                                                                                                                         |
| KVM Demo LP Ad Flag                                         | 0                                                                                                                         |
| 16kVA Hotswap Video Ad Flag                                 | 0                                                                                                                         |
| 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                                | Individually controllable load banks                                                                                      |
| <b>CERTIFICATIONS</b>                                       |                                                                                                                           |
| UPS Certifications                                          | Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category A (EMI)                |
| <b>WARRANTY</b>                                             |                                                                                                                           |
| Product Warranty Period (Worldwide)                         | 2-year limited warranty                                                                                                   |



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|---------------------------------------------------------------|-------------------------------------------------------|
| Connected Equipment Insurance<br>(U.S., Canada & Puerto Rico) | \$250,000 <a href="#">Ultimate Lifetime Insurance</a> |
| <b>APPLICATIONS</b>                                           |                                                       |
| UPS Applications                                              | Network/Server; Eco Energy-Saving                     |

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