# SmartOnline 208/240, 230V 6kVA 4.2kW Double-Conversion UPS, 6U Rack/Tower, Extended Run, Network Card Options, DB9 Serial, Hardwire

MODEL NUMBER: **SU6000RT3UHV**









## Description

Tripp Lite Smart Online UPS systems offer high performance power protection ideal for critical server and network equipment in datacenters, computer rooms and network closets. Online, double-conversion Uninterruptible Power Supply (UPS) maintains perfectly regulated output power by continuously converting raw AC input to DC, then re-converting output back to AC. Fully regulated sine wave AC output with +/-2% voltage regulation powers network equipment continuously, even during severe brownouts and overvoltages, all without depleting UPS battery reserves. Maintains battery-derived AC output during power failures with zero transfer time. Extended runtime options available. Interactive LCD interface reports UPS operating mode, detailed UPS and site-power data, plus enables a variety of UPS setup and configuration options. Highly efficient operation in optional economy mode saves BTU heat output and energy costs. Network management interfaces support communications via RS-232, contact-closure and slot for network management card options. Built-in DB9 port offers both enhanced RS-232 data and basic contact closure monitoring ability. PowerAlert monitoring software is available via free download. Emergency Power Off (EPO) interface. LED display reports UPS operating mode, line power availability, battery mode operation, inverter operation, ECO mode status and output power availability. Audible alarm with push-button momentary alarm-cancel and silent-mode LCD configuration options. Programmable self-test. Fault-tolerant auto-bypass mode. Field-replaceable, hot-swappable internal batteries and external battery packs.

## Features

- True on-line, double conversion UPS provides pure, sine wave AC output at all times
- World-wide compatibility with Euro 50Hz and High Voltage North American 60Hz power
- 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
- 6000VA/4200 watt power capacity with hardwire input/output connections

## Highlights

- 6000VA / 6kVA / 4200W on-line double-conversion UPS
- 200/208/220/230/240V 50/60Hz output, Economy mode option
- 6U Rack/Tower compatible; Hot-swappable battery modules
- RS232 and EPO ports; Slot for network card options
- Front panel LEDs with detailed LCD monitoring and control screen
- Ships with standard capacity BP240V7RT3U battery pack
- Hardwire input (3 wire); Hardwire output

## Package Includes

- SU6000RT3UPM 3U Power Module
- BP240V7RT3U non-expandable 3U battery pack
- Serial and EPO cables
- Complete mounting hardware for 4 post rack installation
- 2-9USTAND tower stand set
- Warranty information
- Instruction manual

- Accepts input voltages between 156 and 276, regulating output within 2% of selectable 200/208/220/230/240v AC output
- 20 minutes runtime at half load (2100W) / 8 minutes at full load (4200W) with included BP240V7RT3U external battery pack
- Expandable runtime with multiple external battery packs
- Intelligent battery management system extends battery life
- Innovative design makes unit adaptable for rackmount, tower, or stacking applications
- Power module and battery pack require only 3 rack spaces each (6U total rack space usage)
- DB9 serial port for network interface; SNMP compatible
- Compatible with Tripp Lite UPS management card options TLNETCARD, WEBCARDLX, SNMPWEBCARD, MODBUSCARD and RELAYIOCARD
- Serial port enables data-saving unattended shutdown when used with Tripp Lite's PowerAlert software, available via FREE download from tripplite.eaton.com/products/power-alert
- Fault tolerant electronic bypass maintains utility output during a variety of UPS fault conditions
- Diagnostic LEDs
- Mounting hardware included with each 3U module for 4 post rackmount installation, 2 post telecom rack compatible with separate purchase 2POSTRMKITHD (2 required)
- Includes RJ11 EPO (emergency power off) port and interconnection cable
- $250,000 Ultimate Lifetime Insurance (USA , Puerto Rico, & Canada Only)

# Specifications

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| **OVERVIEW** | |
| UPC Code | 037332121400 |
| UPS Type | On-Line |
| **INPUT** | |
| Input Phase | Single-Phase |
| Rated input current (Maximum Load) | 30A |
| Nominal Input Voltage(s) Supported | 200V AC; 208V AC; 220V AC; 230V AC; 240V AC |
| UPS Input Connection Type | Hardwire |
| UPS Input Connection Description | Supports North American 208/240V input (L1,L2,G) and International 230/220/240V (L,N,PE) input wiring; Optional SUPDM11 backplate adds 2 L6-30R outlets and L6-30P input cord |
| Input Circuit Breakers | 40A double-pole |
| Recommended Electrical Service | 30A 208/220/230/240V |
| **OUTPUT** | |
| Output Capacity (VA) | 6000 |
| Output Capacity (kVA) | 6 |
| Output Capacity (Watts) | 4200 |
| Output Capacity (kW) | 4.2 |

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| Output Capacity Details | Supports up to 102% load continuously in double conversion mode, 102 to 125% for 1 minute, 126% to 150% for 30 seconds; Loads over 150% trigger immediate bypass mode operation to support loads directly from mains power; Double conversion mode is automatically restored as load levels are reduced to 90% or less |
| Power Factor | 0,7 |
| Crest Factor | 3:1 |
| Nominal Voltage Details | Voltage selection via front panel LCD interface |
| Frequency Compatibility | 50 / 60 Hz |
| Frequency Compatibility Details | Output frequency matches input nominal on startup |
| Output Voltage Regulation (Line Mode) | +/- 2% |
| Output Voltage Regulation (Economy Line Mode) | +/- 10% |
| Output Voltage Regulation (Battery Mode) | +/- 2% |
| Output Receptacle Backplate Options | Optional SUPDM11 backplate adds 2 L6-30R outlets and L6-30P input cord |
| Output Circuit Breakers | 40A double-pole |
| Output AC Waveform (AC Mode) | Pure Sine wave |
| Output AC Waveform (Battery Mode) | Pure Sine wave |
| Nominal Output Voltage(s) Supported | 200V; 208V; 220V; 230V; 240V |
| Output Receptacles | Hardwire |
| Individually Controllable Load Banks | No |
| **BATTERY** | |
| Runtime Full Load (min.) | 8 min. (4200w) |
| Runtime Half Load (min.) | 20 min. (2100w) |
| Expandable Runtime | Yes |
| Expandable Runtime Description | Includes one non-expandable BP240V7RT3U (limit 1) external battery pack. No additional BP240V7RT3U external battery packs can be connected to the host UPS, beyond the one included with the SU6000RT3UHV UPS bundle. All additional battery packs connected beyond the included BP240V7RT3U, must be BP240V10RT3U, BP240V557C-1PH, BP240V787C-1PH, BP240V1037C-1PH or BP240V1407C-1PH |
| External Battery Pack Compatibility | BP240V10RT3U; BP240V557C-1PH; BP240V787C-1PH; BP240V1037C-1PH; BP240V1407C-1PH |
| DC System Voltage (VDC) | 240 |
| Battery Recharge Rate (Included Batteries) | Less than 6 hours from 10% to 80% (typical, full load discharge) |
| Battery Replacement Description | Hot-swappable, user replaceable batteries |
| **VOLTAGE REGULATION** | |
| Voltage Regulation Description | Online, double-conversion power conditioning |
| Overvoltage Correction | 2% output voltage regulation during overvoltages to 276 |
| Undervoltage Correction | 2% output voltage regulation during undervoltages to 156 |

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| **USER INTERFACE, ALERTS & CONTROLS** | |
| Front Panel LCD Display | Selectable LCD display with scroll and selection buttons enables UPS control and detailed monitoring options; LED/LCD panel rotates for viewing in rack/tower formats (see manual) |
| Switches | 2 Switches control off/on power status and alarm-cancel/self-test operation; 2 additional switches support set and execute scrolling LCD functions |
| Alarm Cancel Operation | Alarm cancel switch |
| Audible Alarm | Unique audible alarms for all major UPS, environmental and power conditions (see manual) |
| LED Indicators | 6 LEDs indicate line power, online mode, economy/bypass mode, on-battery, charger and AC output status; LCD screen offers additional information and control options |
| **SURGE / NOISE SUPPRESSION** | |
| UPS AC Suppression Response Time | Instantaneous |
| EMI / RFI AC Noise Suppression | Yes |
| **PHYSICAL** | |
| Primary Form Factor | Rackmount |
| Rack Height | 6U |
| Cooling Method | Fan |
| Included Battery Pack Dimensions (hwd / in.) | 5.2 x 17.5 x 25 |
| Included Battery Pack Weight (lbs.) | 136.5 |
| Included Battery Pack Weight (kg) | 61.92 |
| Included Mounting Accessory Description | 2 sets of adjustable 4 post rack rails included (for UPS and battery pack components); 2-9USTAND tower kit included (supports up to 9U in tower format) |
| Installation Form Factors Supported with Optional Accessories | 2 post rackmount ( <a class="productLink" href="//tripplite.eaton.com/2-Post-Rack-Mount-Installation-Kit-3U-Larger-UPS-Transformer-Battery-Pack-Components~2POSTRMKITHD">2POSTRMKITHD</a> ) |
| Maximum Device Depth (cm) | 66.04 |
| Maximum Device Depth (in.) | 26 |
| Maximum Device Depth (mm) | 660 |
| Minimum Required Rack Depth (cm) | 83.82 |
| Minimum Required Rack Depth (inches) | 33 |
| Optional Mounting Accessory Notes | 2 sets of  <a class="productLink" href="//tripplite.eaton.com/2-Post-Rack-Mount-Wall-Mount-Adapter-Kit-select-Rack-Mount-UPS-Systems~2POSTRMKITWM">2POSTRMKITWM</a>  required for 2 post rackmount installation of separate power module and battery pack |
| Primary UPS Depth (mm) | 660 |
| Primary UPS Height (mm) | 132 |
| Primary UPS Width (mm) | 445 |
| Shipping Dimensions (hwd / in.) | 24.50 x 24.00 x 35.00 |
| Shipping Dimensions (hwd / cm) | 62.23 x 60.96 x 88.90 |
| Shipping Weight (lbs.) | 323.00 |

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| Shipping Weight (kg) | 146.51 |
| Unit Dimension Details | Includes 3U UPS/power module and 3U battery pack |
| UPS Housing Material | Steel |
| UPS Power Module Dimensions (hwd, cm) | 13.21 x 44.45 x 66.04 |
| UPS Power Module Dimensions (hwd, in.) | 5.2 x 17.5 x 26 |
| UPS Power Module Weight (kg) | 19.87 |
| UPS Power Module Weight (lbs.) | 43.8 |
| **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) | 1418 |
| AC Mode Efficiency Rating (100% Load) | 91% |
| AC Economy Mode Efficiency Rating (100% Load) | 94% |
| Battery Mode Heat Dissipation (BTU/Hr) @ Full Load | 1593 |
| Operating Elevation | 0-3000m (0 to 10,000 ft.) |
| Audible Noise | 60 dBA at front side 1 meter |
| **COMMUNICATIONS** | |
| Network Management Cards | SNMPWEBCARD;  <a class="productLink" href="//tripplite.eaton.com/Web-Management-Accessory-Card-SmartPro-SmartOnline-UPS-Systems~TLNETCARD">TLNETCARD</a> ; WEBCARDLX;  <a class="productLink" href="//tripplite.eaton.com/MODBUS-Management-Accessory-Card-UPS-Remote-Monitoring-Control~MODBUSCARD">MODBUSCARD</a> ; RELAYIOCARD |
| Network Monitoring Port Description | RS232 and contact closure communications are located on two separate DB9 ports |
| 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 | DB9 cable included |
| Communications Interface | DB9 Serial; Contact closure; EPO (emergency power off); Slot for SNMP/Web interface |
| **LINE / BATTERY TRANSFER** | |
| Transfer Time | No transfer time (0 ms.) in online, double-conversion mode |
| Transfer Time (Economy Mode) | Less than 1ms typical power failure response in optional economy mode |
| Low Voltage Transfer to Battery Power (Setpoint) | 156 |
| High Voltage Transfer to Battery Power (Setpoint) | 276 |
| **FEATURES & SPECIFICATIONS** | |

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| 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 |
| **WARRANTY & SUPPORT** | |
| Product Warranty Period (Worldwide) | 2-year limited warranty |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico) | $250,000 <a class="insuranceLink" href="//tripplite.eaton.com/support/insurance-policy">Ultimate Lifetime Insurance</a>  |

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

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