

SmartOnline 200-240V 10kVA 9kW Double-Conversion UPS, 6U, Extended Run, Network Card Slot, USB, DB9, Switch, Hardwire

MODEL NUMBER: **SU10KRT3UHV**



Description

Tripp Lite SU10KRT3UHV 10,000VA / 10kVA / 9000 watt online, double-conversion UPS system offers complete power protection for critical network applications. This system delivers online, double-conversion UPS protection with zero transfer time, suitable for advanced networking applications. Fault-tolerant auto-bypass prevents unexpected service interruptions during UPS overload or internal fault conditions. Included detachable PDU with manual bypass switch enables hot-swappable replacement of entire UPS power module with no interruption to connected equipment. Enhanced availability, fault tolerance and simple hot-swap replacement options make this UPS ideal for advanced networking applications in data centers, computer rooms, network closets and rugged industrial locations.

Features

- Tripp Lite SU10KRT3UHV 10kVA/10,000VA/9000 watt on-line, double-conversion UPS system in 6U total rack/tower configuration (3U UPS power module and 3U external battery pack)
- Detachable PDU with manual bypass switch enables hot-swappable UPS power module replacement with no interruption in output power to connected networking equipment
- Fault tolerant electronic bypass maintains utility output during a variety of UPS fault conditions
- Hardwire input (3 wire) and hardwire output (3 wire) connections
- Supports North American (L1,L2,G) 208/240v hardwire input / output, plus International 230/220/240v (L,N,PE) hardwire input / output
- Optional [SU6000XFMR2U](#) transformer offers 120v output in North American 208/240V (L1,L2,G) input configurations
- Maximum installed rack depth of only 32.5 in. / 82.6cm
- Full-time active power conditioning provides clean, continuous dual-conversion AC output free of

Highlights

- 10kVA/10,000VA/9000W on-line double-conversion UPS; 0.9 power factor
- 200/208/220/230/240V 50/60Hz output; Economy mode option
- 6U Rack / Tower compatible; Hot-swappable power and battery modules
- USB, RS232 & EPO ports; slot for optional Network Management Cards
- Front panel LEDs with detailed LCD monitoring and control screen
- Expandable runtime with optional external battery packs
- Hardwire input (3 wire); Hardwire output (3 wire)

Package Includes

- [SU10000RT3UPM](#) 3U UPS power module
- [BP240V10RT3U](#) external battery pack
- [SUPDMB710HW](#) Detachable PDU with manual bypass switch
- Four post compatible rack rail kit (2 sets)
- Tower stands for upright tower configuration
- USB, [DB9](#) and EPO cabling
- User manual

voltage fluctuations, power interruptions and line noise

- Double-conversion operation converts raw input from AC to DC, then resynthesizes output power back to perfect sine wave AC with enhanced protection from harmonic distortion, fast electrical impulses and other hard-to-solve power problems not addressed by other UPS types
- Maintains full-time sine wave output within 2% of selectable 200/208/220/230/240V nominal during brownouts as low 100V and overvoltages as high as 300V
- Supports 50/60Hz operation for worldwide frequency compatibility
- Expandable runtime is supported with optional [BP240V10RT3U](#); [BP240V557C-1PH](#); [BP240V787C-1PH](#); [BP240V1037C-1PH](#); [BP240V1407C-1PH](#) external battery packs
- Some external battery configurations require the use of Tripp Lite's External Battery Configuration Software (see manual)
- Intelligent battery management system with temperature-compensated charging extends battery life
- Highly efficient operation in optional economy mode significantly reduces BTU heat output and operating energy costs
- Battery independent restart ensures automatic UPS power-up without user interaction after lengthy power outages, even when batteries are expired and require replacement
- 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
- HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X
- Compatible with Tripp Lite UPS management card options [TLNETCARD](#), [WEBCARDLX](#), [SNMPWEBCARD](#), [MODBUSCARD](#) and [RELAYIOCARD](#)
- Optional [RELAYIOMINI](#) interface module offers three configurable hard contact closure outputs for custom event notification (requires removal of USB interface module)
- Supports Emergency Power Off (EPO) via built-in interface
- Included rail kit supports 6U 19 inch rackmount installation in 4 post racks
- Optional [2POSTRMKITHD](#) supports installation in 2 post 19 inch racks
- Front panel LEDs and LCD readout with scroll controls and password option supports visual monitoring of all major UPS functions and advanced UPS settings for charge level, nominal voltage selection, frequency conversion and other operational parameters
- LED / LCD display panel rotates for viewing in rackmount or tower configurations
- Network-grade AC surge and noise suppression
- Industrial mode option (factory preset) enables supports high current startup loads by momentarily switching to bypass mode in response to short duration overload conditions
- Frequency conversion mode enables conversion of 60Hz to 50Hz or 50Hz to 60Hz (no de-rating)
- External battery packs are field replaceable and hot swappable



Specifications

| OUTPUT | |
|---|--|
| Output Volt Amp Capacity (VA) | 10000 |
| Output kVA Capacity (kVA) | 10 |
| Output Watt Capacity (Watts) | 9000 |
| Output kW Capacity (kW) | 9.0 |
| 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; 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 95% or less |
| Power Factor | 0.9 |
| Crest Factor | 3:1 |
| Nominal Output Voltage(s) Supported | 200V; 208V; 220V; 230V; 240V |
| Nominal Voltage Details | Voltage selection via front panel LCD interface |
| Frequency Compatibility | 50 / 60 Hz; Supports 50 to 60 Hz and 60 to 50 Hz conversion |
| Frequency Compatibility Details | Output frequency matches input nominal on startup; Frequency conversion mode enables conversion of 60Hz to 50Hz or 50Hz to 60Hz (no de-rating); Output frequency regulation +/- 0.05Hz (free running) |
| Output Voltage Regulation (Line Mode) | +/- 2% |
| Output Voltage Regulation (Economy Line Mode) | +/- 10% |
| Output Voltage Regulation (Battery Mode) | +/- 2% |
| Output Receptacles | Hardwire |
| Output Receptacle Details | Supports North American 208/240V* output (L1,L2,G) and International 230/220/240V (L,N,PE) hardwire output; *For 120V output with 208/240V (L1,L2,G) input wiring, use optional SU6000XFMR2U transformer |
| Output AC Waveform (AC Mode) | Pure Sine wave |
| Output AC Waveform (Battery Mode) | Pure Sine wave |
| INPUT | |
| Rated input current (Maximum Load) | 56.1A (200V), 54A (208V), 51A (220V), 48.8A (230V), 46.8A (240V) |
| 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 |
| Recommended Electrical Service | 60A |
| Input Phase | Single-Phase |
| BATTERY | |



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|---|---|
| Full Load Runtime (min.) | 4.3 min. (9000w) |
| Half Load Runtime (min.) | 12.5 min. (4500w) |
| Expandable Battery Runtime | Supports extended runtime with optional external battery packs |
| External Battery Pack Compatibility | <u>BP240V10RT3U</u> ; <u>BP240V557C-1PH</u> ; <u>BP240V787C-1PH</u> ; <u>BP240V1037C-1PH</u> ; <u>BP240V1407C-1PH</u> |
| DC System Voltage (VDC) | 240 |
| Battery Recharge Rate (Included Batteries) | Less than 6 hours from 10% to 90% (typical, full load discharge) |
| Battery Replacement Description | Hot-swappable, user replaceable external battery packs |
| Expandable Runtime | Yes |
| VOLTAGE REGULATION | |
| Voltage Regulation Description | 2% output voltage regulation in standard online, double-conversion mode |
| Overvoltage Correction | Corrects overvoltages up to 300V |
| Undervoltage Correction | Corrects undervoltages as low as 100V |
| 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; LCD Display supports ENGLISH, FRENCH, GERMAN, ITALIAN, SPANISH and PORTUGUESE (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; bundled PDU includes bypass switch to enable hot-swap UPS power module replacement |
| 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 | |
| Included Mounting Accessory Description | 2 sets of adjustable 4 post rack rails included; 2-9USTAND tower kit included |
| Installation Form Factors Supported with Optional Accessories | 2 post rackmount (<u>2POSTRMKITHD</u>) |
| Optional Mounting Accessory Notes | 2 sets of <u>2POSTRMKITHD</u> required for 2 post rackmount installation of all included components |
| Primary Form Factor | Rackmount |
| UPS Power Module Dimensions (hwd, in.) | 5.14 x 17.5 x 25.82 |



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|--|---|
| UPS Power Module Dimensions (hwd, cm) | 13.06 x 44.45 x 65.58 |
| Rack Height (U Spaces) | 6 |
| Maximum Device Depth (in.) | 32.5 |
| Minimum Required Rack Depth (inches) | 37.5 |
| Maximum Device Depth (cm) | 82.55 |
| Minimum Required Rack Depth (cm) | 95.25 |
| UPS Power Module Weight (lbs.) | 43 |
| UPS Power Module Weight (kg) | 19.50 |
| UPS Dimensions Details | Includes 3U UPS/power module, 3U external battery pack plus SUPDMB710HW PDU with bypass; MAXIMUM DEVICE DEPTH specification refers to the whole UPS installed depth with bypass PDU installed |
| Included Battery Pack Dimensions (hwd / in.) | 5.25 x 17.5 x 25 |
| Included Battery Pack Weight (lbs.) | 158.7 |
| Included Battery Pack Weight (kg) | 71.99 |
| UPS Shipping Dimensions (hwd / in.) | 38.25 x 31.5 x 23 |
| UPS Shipping Dimensions (hwd / cm) | 97.16 x 80.01 x 58.42 |
| Shipping Weight (lbs.) | 327.6 |
| Shipping Weight (kg) | 148.7 |
| Cooling Method | Fan |
| UPS Housing Material | Steel |
| Maximum Device Depth (mm) | 826 |
| Minimum Required Rack Depth (mm) | 952 |
| Primary UPS Height (mm) | 131 |
| Primary UPS Width (mm) | 444 |
| Primary UPS Depth (mm) | 656 |
| Shipping Height (mm) | 972 |
| 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 |



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|---|---|
| AC Mode BTU / Hr. (Full Load) | 3415 |
| AC Economy Mode BTU / Hr. (Full Load) | 1280 |
| Battery Mode BTU / Hr. (Full Load) | 4593 |
| AC Mode Efficiency Rating (100% Load) | 91% |
| AC Economy Mode Efficiency Rating (100% Load) | 96% |
| Operating Elevation (ft.) | 0-3000m (0 to 10,000 ft.) |
| Audible Noise | 60 dBA at front side 1 meter |
| Operating Elevation (m) | 0-3000 m |
| COMMUNICATIONS | |
| Communications Interface | USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface |
| Network Management Cards | SNMPWEBCARD; TLNETCARD; WEBCARDLX; MODBUSCARD; RELAYIOCARD |
| Network Monitoring Port Description | Additional contact closure support with optional RELAYIOCARD and RELAYIOMINI interface cards. RELAYIOMINI installation requires removal of panel containing USB ports |
| 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, DB9 serial and EPO cables 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 |
| Transfer Time (Economy Mode) | 8 ms. typical power failure response in optional economy mode |
| Low Voltage Transfer to Battery Power (Setpoint) | 100V |
| High Voltage Transfer to Battery Power (Setpoint) | 300V |
| SPECIAL FEATURES | |
| Cold Start (Startup in Battery Mode During a Power Failure) | Cold-start operation supported |
| Economy Mode Operation | Optional economy mode enables high efficiency bypass operation with a maximum output voltage variation of +/- 10%. Double conversion mode is automatically restored as mains voltage varies beyond +/-10% with less than 1 millisecond transfer time between modes. |
| High Availability UPS Features | Automatic inverter bypass; Hot swappable batteries; Hot swappable UPS power module; Manual bypass switch |
| Green Energy-Saving Features | High efficiency economy mode operation; Schedulable daily hours of economy mode operation |
| CERTIFICATIONS | |
| UPS Certifications | Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); CE; Meets FCC Part 15 Category A (EMI) |



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| UPS Certification Details | IEC 61000-4-5 1995 B Surge Immunity |
| WARRANTY | |
| Product Warranty Period (Worldwide) | 2-year limited warranty |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico) | \$250,000 <u>Ultimate Lifetime Insurance</u> |

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- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
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