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## Model #: SU10KRT3U

### SmartOnline 10kVA On-Line Double-Conversion UPS, 9U Rack/Tower, 208/120V or 240/120V Hardwire output



#### Highlights

- 10kVA / 10,000VA / 9000W on-line double-conversion UPS; 0.9 power factor
- 208/120V or 240/120V 50/60Hz output; Economy mode option
- 9U Rack / Tower compatible; Hot-swappable power and battery modules
- USB, RS232 & EPO ports; support for SNMP/WEB and contact-closure card options
- Front panel LEDs with detailed LCD monitoring and control screen
- Expandable runtime with optional external battery packs
- Hardwire input (3 wire); Hardwire output

#### Description

Tripp Lite SU10KRT3U 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 stepdown transformer 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.

#### Package Includes

- SU10000RT3UPM 3U UPS power module
- BP240V10RT3U external battery pack
- SU10KXFMRRT3U step down transformer with manual bypass switch
- Four post compatible rack rail kit (3 sets)
- Tower stands for upright tower configuration
- PowerAlert software, complete data cabling and user manual

#### Features

- Tripp Lite SU10KRT3U 10kVA / 10,000VA / 9000 watt on-line, double-conversion UPS system in 9U total rack/tower configuration (3U UPS power module, 3U external battery pack and 3U step-down transformer)
- Included stepdown transformer 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 and output connections
- 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 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 208/240 and 120V nominal at 50/60Hz during brownouts as low 100V and overvoltages as high as 300V
- 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)
- 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
- PowerAlert monitoring software offers detailed site power and UPS updates with support for safe auto-shutdown of connected systems as UPS batteries become depleted
- Includes Free PowerAlert monitoring software packages; PowerAlert LOCAL for desktops and small business networks, PowerAlert NSA (Network Shutdown Agent) for larger networks and PowerAlert NMS (Network Management System) for monitoring up to 250 SNMP-enabled UPS, PDU and other networking devices
- Supports detailed monitoring of equipment load levels, self-test data and utility power conditions via built-in RS-232 and USB interfaces
- HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X
- Optional SNMPWEBCARD offers communications and control via secure remote web and network interfaces
- Optional RELAYIOCARD supports six configurable hard contact closure outputs for custom event notification
- 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 9U 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	9.0
Output power factor	0.9
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
Nominal Output Voltage(s) Supported	120V; 208V; 240V
Frequency compatibility	50/60 Hz (auto-selectable)
Frequency compatibility details	Output frequency matches input nominal on startup; Frequency conversion mode enables conversion of 60Hz to 50Hz or 50Hz to 60Hz; Output frequency regulation +/- 0.05Hz (free running)
Output voltage regulation (line mode)	+/- 2%

<b>Output voltage regulation (Economy line mode)</b>	+/- 10%
<b>Output voltage regulation (Battery mode)</b>	+/- 2%
<b>Output AC waveform (AC mode)</b>	Pure Sine wave
<b>Output AC waveform (battery mode)</b>	Pure Sine wave
<b>INPUT</b>	
<b>Rated input current (at maximum load)</b>	54A (208V), 46.8A (240V)
<b>Nominal Input Voltage(s) Supported</b>	208V AC; 240V AC
<b>UPS input connection type</b>	Hardwire
<b>UPS input connection description</b>	3 wire single phase input (L1, L2, G)
<b>Recommended Electrical Service</b>	60A
<b>BATTERY</b>	
<b>Full load runtime (minutes)</b>	4.3 min. (9000w)
<b>Half load runtime (minutes)</b>	12.5 min. (4500w)
<b>Expandable battery runtime</b>	Supports extended runtime with optional external battery packs
<b>External battery pack compatibility</b>	<a href="#">BP240V10RT3U</a> ; <a href="#">BP240V557C-1PH</a> ; <a href="#">BP240V787C-1PH</a> ; <a href="#">BP240V1037C-1PH</a> ; <a href="#">BP240V1407C-1PH</a>
<b>DC system voltage (VDC)</b>	240
<b>Battery recharge rate (included batteries)</b>	Less than 6 hours from 10% to 90%
<b>Battery replacement description</b>	Hot-swappable, user replaceable external battery packs
<b>VOLTAGE REGULATION</b>	
<b>Voltage regulation description</b>	2% output voltage regulation in standard online, double-conversion mode
<b>Overvoltage correction</b>	Corrects overvoltages up to 300V
<b>Undervoltage correction</b>	Corrects undervoltages as low as 100V
<b>LEDS ALARMS &amp; SWITCHES</b>	
<b>LED Indicators</b>	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

<b>Front panel LCD display</b>	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)
<b>Alarms</b>	Unique audible alarms for all major UPS, environmental and power conditions (see manual)
<b>Alarm cancel operation</b>	Alarm cancel switch
<b>Switches</b>	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
<b>SURGE / NOISE SUPPRESSION</b>	
<b>UPS AC suppression response time</b>	Instantaneous
<b>EMI / RFI AC noise suppression</b>	Yes
<b>PHYSICAL</b>	
<b>Installation form factors supported with included accessories</b>	Tower
<b>Included mounting accessory description</b>	3 sets of adjustable 4 post rack rails included; 2-9USTAND tower kit included
<b>Installation form factors supported with optional accessories</b>	2 post rackmount (2POSTRMKITHD)
<b>Optional mounting accessory notes</b>	3 sets of <a href="#">2POSTRMKITHD</a> required for 2 post rackmount installation of separate power module, battery pack and transformer
<b>Primary form factor</b>	Rackmount
<b>UPS / Power Module dimensions in primary form factor (height x width x depth / inches)</b>	5.14 x 17.5 x 25.82
<b>UPS / Power Module dimensions in primary form factor (height x width x depth / cm)</b>	13.1 x 44.4 x 65.6
<b>Installed whole system maximum rack depth (inches)</b>	32.5
<b>Installed whole system maximum rack depth (cm)</b>	82.6
<b>Installed whole system total rack space height (rack spaces)</b>	9U
<b>Secondary form factor</b>	Tower
<b>UPS / Power Module weight (lbs)</b>	43

<b>UPS / Power Module weight (kg)</b>	19.5
<b>Stepdown transformer dimensions (height x width x depth / inches)</b>	5.25 x 17.5 x 26
<b>Stepdown transformer dimensions (height x width x depth / cm)</b>	13.3 x 44.4 x 66
<b>Stepdown transformer weight (lbs)</b>	102
<b>Stepdown transformer weight (kg)</b>	46.3
<b>Included battery pack dimensions (height x width x depth / inches)</b>	5.25 x 17.5 x 25
<b>Included battery pack dimensions (height x width x depth / cm)</b>	13.3 x 44.4 x 63.5
<b>Included battery pack weight (lbs)</b>	158.7
<b>Included battery pack weight (kg)</b>	72
<b>UPS Shipping dimensions (height x width x depth / inches)</b>	48.25 x 40 x 48
<b>UPS Shipping dimensions (height x width x depth / cm)</b>	122.6 x 101.6 x 121.9
<b>Shipping weight (lbs)</b>	460
<b>Shipping weight (kg)</b>	208.8
<b>UPS housing material</b>	Steel
<b>Cooling method</b>	Fan
<b>ENVIRONMENTAL</b>	
<b>Operating Temperature Range</b>	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius
<b>Storage Temperature Range</b>	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius
<b>Relative Humidity</b>	0 to 95%, non-condensing
<b>AC mode BTU / hr. (full load)</b>	3415
<b>AC economy mode BTU / hr. (full load)</b>	1275

<b>AC economy mode efficiency rating (100% load)</b>	96%
<b>Operating Elevation (ft)</b>	0-3000m (0 to 10,000 ft.)
<b>Audible Noise</b>	60 dBA at front side 1 meter
<b>COMMUNICATIONS</b>	
<b>Communications interface</b>	USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface
<b>Network monitoring port description</b>	Additional contact closure support with optional RELAYIOCARD and RELAYIOMINI interface cards. RELAYIOMINI installation requires removal of panel containing USB ports
<b>PowerAlert software</b>	Included
<b>Communications cable</b>	USB, DB9 serial and EPO cables included
<b>WatchDog compatibility</b>	Supports Watchdog application, OS and hard-reboot restart options for remote applications
<b>LINE / BATTERY TRANSFER</b>	
<b>Transfer time</b>	No transfer time (0 ms.) in online, double-conversion mode
<b>Transfer time (economy mode)</b>	8 ms. typical power failure response in optional economy mode
<b>Low voltage transfer to battery power (setpoint)</b>	100V
<b>High voltage transfer to battery power (setpoint)</b>	300V
<b>SPECIAL FEATURES</b>	
<b>Cold Start (startup in battery mode during a power failure)</b>	Cold-start operation supported
<b>Economy mode operation</b>	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.
<b>High availability UPS features</b>	Automatic inverter bypass; Manual bypass switch; Detachable hot-swap PDU; Hot swappable UPS power module; Hot swappable batteries
<b>Green &amp; high efficiency features</b>	High efficiency economy mode operation; Schedulable daily hours of economy mode operation
<b>CERTIFICATIONS</b>	
<b>UPS Certifications</b>	Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category A (EMI)
<b>UPS Certification details</b>	IEC 61000-4-5 1995 B Surge Immunity
<b>WARRANTY</b>	
<b>Product Warranty Period (U.S., Canada &amp; Puerto Rico)</b>	2-year limited warranty
<b>Connected Equipment Insurance (U.S., Canada &amp; Puerto Rico)</b>	\$250,000 <a href="#">Ultimate Lifetime Insurance</a>

## Related Items

### Optional Products

Product Type	Related Model	Description	Qty.
Extended Warranties	<a href="#">WEXT3-SU10K</a>	3-Year Extended Warranty - For SU10K models	1
Extended Warranties	<a href="#">WEXT5-SU10K</a>	5-Year Extended Warranty - For SU10K models	1
External Battery Packs	<a href="#">BP240V1037C-1PH</a>	External battery pack for use with select Tripp Lite UPS Systems	1
External Battery Packs	<a href="#">BP240V10RT3U</a>	External Battery Pack and Cable. 3U, Expandable, Black 3-Point Connector	1
External Battery Packs	<a href="#">BP240V1407C-1PH</a>	External battery pack for use with select Tripp Lite UPS Systems	1
External Battery Packs	<a href="#">BP240V557C-1PH</a>	External battery pack for use with select Tripp Lite UPS Systems	1
External Battery Packs	<a href="#">BP240V787C-1PH</a>	External battery pack for use with select Tripp Lite UPS Systems	1
Rackmount/Wallmount Kits	<a href="#">2POSTRMKITHD</a>	Enables 2-Post Rackmount Installation of 3U and Larger UPS, Transformer and Battery Pack Components	1
SNMP Accessories	<a href="#">ENVIROSENSE</a>	Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.)	1
SNMP Accessories	<a href="#">SNMPWEBCARD</a>	For remote monitoring and control via SNMP, Web, or Telnet.	1
SNMP Accessories	<a href="#">SRSWITCH</a>	Magnetic Door Switch Kit for front and rear doors; requires ENVIROSENSE	1
UPS Accessories	<a href="#">MODBUSCARD</a>	For remote monitoring and control via MODBUS protocol	1
UPS Accessories	<a href="#">RELAYIOCARD</a>	Programmable Relay I/O Card	1
UPS Accessories	<a href="#">RELAYIOMINI</a>	3 Relay I/O Mini-module	1

More information, including related products, owner's manuals, and additional technical specifications, can be found online at [www.tripplite.com/en/products/model.cfm?txtModelID=2471](http://www.tripplite.com/en/products/model.cfm?txtModelID=2471).

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