

# SmartOnline Expandable Rack / Tower UPS System

On-line, double-conversion protection for mission critical applications



## Model #: SU10KRT3U

- ▶ 10,000VA / 10kVA online 9U rack / tower UPS (3U Power Module + 3U Stepdown Transformer + 3U Battery Pack)
- ▶ Enhanced serial communications ports, SNMP/Web card slot and EPO jack
- ▶ Maintains 200, 208, 220, 230 or 240V and simultaneous 120V output +/-2% during brownouts to 156 and overvoltages to 276V
- ▶ Fault tolerant manual and auto-bypass modes
- ▶ Expandable runtime with optional BP240V10RT3U battery packs
- ▶ \$250,000 Ultimate Lifetime Insurance (USA & Canada only)

## Enterprise Assistance

E-mail us your critical extended run application requirements for large kVA and extended run UPS Systems and we will research the ideal solution and provide a custom configuration.

[Contact a Tripp Lite Product Specialist](#)

## DESCRIPTION

Tripp Lite's SmartOnline SU10KRT3U on-line, double conversion UPS protects server, networking or telecommunications equipment from blackouts, voltage fluctuations and surges in a compact tower / rackmount housing. In rack configuration, power module, step-down transformer and battery pack occupy only 3 rack spaces each (9U total). Upright tower placement of entire system supported with included tower stands. Large capacity 10,000 VA / 7000 watt power module converts raw input AC to DC, then back to perfect sine wave AC output within 2% of user-selectable 200/208/220/230/240V and 120v AC output voltages. Frequency regulation locks output power to 50/60Hz (+/-0.5 Hz), removing harmonic distortion, fast electrical impulses and other hard-to-solve power problems not addressed by other UPS types. Perfectly regulated, continuous sine wave output with zero transfer time offers guaranteed compatibility with all equipment types. Hardwire input and output connections support a variety of permanent or PDU style power connections. Battery support can be extended indefinitely through the addition of external 3U rackmount battery packs (part# BP240V10RT3U). Includes slot for internal SNMP/web card, plus two DB9 enhanced serial and contact closure monitoring ports for unattended shutdown, remote control and monitoring of UPS system and power data.

## KEY BUYING POINTS

- 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
- 10,000VA / 7000 watt power capacity with hardwire input / output connections
- Accepts input voltages between 156 and 276, regulating output within 2% of selectable 200/208/220/230/240V and 120V AC output
- Standard included 3U battery pack provides 20 minutes runtime at half load (5000VA) and 8 minutes runtime at full load (10,000VA)
- Expandable runtime with multiple external battery packs (part# BP240V10RT3U)
- Innovative design makes unit adaptable for rackmount, tower, or stacking applications
- In rack configuration, power module, step-down transformer and battery pack occupy only 3 rack spaces each (9U) total
- 2 DB9 serial ports for network interface; SNMP compatible
- Slot for optional SNMP/web card (part# SNMPWEBCARD)
- PowerAlert unattended shutdown software and 6 ft. network cable included
- Fault tolerant auto-bypass maintains continuous utility output to connected equipment, even in cases where the UPS is overloaded or suffers an internal failure that requires service
- Manual bypass switch on the transformer module allows users to disconnect, remove, and replace the power module while maintaining continuous utility power to connected equipment
- Diagnostic LEDs
- Mounting hardware included with each 3U module for 4 post rackmount installation, 2 post telecom rack compatible with separate

- purchase 2POSTRMKIT accessory (3 required)
- Built-in Emergency Power Off (EPO) interface supports emergency shutoff in large facilities
- 2 year manufacturer's product warranty
- \$250,000 Ultimate Lifetime connected equipment insurance

## TYPICAL APPLICATIONS

- Ideal for protection of critical 200/208/220/230/240V and 120V equipment in server rooms, internetworking closets and telecommunications systems in rackmount or tower applications. Common applications include corporate or departmental servers, workstations, hubs, routers, bridges, CAD/CAM workstations, concentrators, IP telephony and traditional PBX switching systems.

## OPTIONS & ACCESSORIES

- SNMP accessories: [SNMPWEBCARD](#), [ENVIROSENSE](#)
- External battery pack: [BP240V10RT3U](#), [BP240V32](#)
- Two Post Rackmount Kit: [2POSTRMKIT](#) (3 required)
- Extended warranties: 3 Year [WEXT3-SU10K](#), 5 Year [WEXT5-SU10K](#)

## PACKAGE INCLUDES

- SU10KRT3U UPS System (power module, step-down transformer module and battery pack)
- PowerAlert Software and cabling
- Mounting hardware for 4 post rackmount enclosures / tower stands
- Warranty information
- Instruction manual

## COMPLETE SPECIFICATIONS

SYSTEM OVERVIEW	
<b>System overview:</b>	Online, double conversion rack / tower UPS system continuously maintains near-perfect output power for critical internetworking and telecommunications equipment. Uses only 9 rack spaces (9U) in EIA standard rackmount configuration, with full support for upright tower and stacking applications. Completely regenerates input power into perfectly regulated sine wave output free of harmonic distortion, fast electrical impulses and frequency fluctuations. Simultaneously compatible with North American 208/240 and 120V applications. Maintains output within 2% of nominal during brownouts to 156 and overvoltages to 276V. Supports enhanced monitoring of UPS and line power conditions via DB9 serial port, included PowerAlert monitoring software and complete cabling. Includes slot for SNMPWEBCARD. Hardwire input / output connections supported. Runtime is expandable with BP240V10RT3U battery packs.
<b>Voltage compatibility:</b>	Supports continuous high/low voltage output of 200, 208, 220, 230, 240 and 100, 120V AC over an input voltage range of 156-276V AC
<b>Frequency compatibility:</b>	50/60Hz
OUTPUT	
<b>Output volt amp capacity (VA):</b>	10000
<b>Output watt capacity (watts):</b>	7000
<b>Output nominal voltage:</b>	200, 208, 220, 230 or 240V AC and 100, 120VAC, supports simultaneous High / Low output voltage
<b>Output voltage regulation:</b>	Maintains pure sine wave output at all times, regulated within 2% of selected nominal output voltage, less than 5% total harmonic distortion
<b>Output frequency regulation:</b>	Regulates line frequency to 50/60Hz +/- 0.05Hz

Outlet quantity / type:	Hardwire
Overload protection:	Resettable 63A circuit breaker
<b>INPUT</b>	
Maximum input amps:	50A / 8240 watts max.
Input connection type:	Hardwire
Recommended electrical service:	50A 208V
<b>BATTERY</b>	
Full load runtime:	Included batteries — 8 min. (10,000VA) 1 BP240V10RT3U — 19 min.
Half load runtime:	Included batteries — 20 min (5,000VA) 1 BP240V10RT3U — 45 min.
Expandable battery runtime:	Supports extended runtime with optional external battery pack BP240V10RT3U (multi-pack compatible)
DC system voltage:	240 V DC
Typical battery lifespan:	3-6 years, depending on usage
Battery recharge rate:	2-4 hours to 90%
<b>VOLTAGE REGULATION</b>	
Voltage regulation description:	On-line, double-conversion process give this UPS the ability to maintain output voltage within +/-2% of selected nominal voltage at all times
Overvoltage correction:	Maintains continuous operation without using battery power during overvoltages to 276V AC, reducing output within 2% of selected nominal
Brownout correction:	Maintains continuous operation without using battery power during brownout / undervoltage conditions to 156V AC, increasing output within 2% of selected nominal
<b>LEDS ALARMS &amp; SWITCHES</b>	
Front panel LEDs:	6 LED DISPLAY: line power, bypass, inverter, charger, output AC and battery operation SELECTABLE LCD DISPLAY: input/output voltage, Hz, battery voltage and charge level and detailed warnings regarding all major UPS functions
Alarms:	Multi-function audible alarm offers notification of UPS start, backup operation, low battery, overload, UPS fault, inverter fault, DC bus fault, overtemperature, remote shutdown, shutdown imminent and shutdown complete
Switches:	Includes main power off/on switch, plus 2 switches to set and execute scrollable LCD functions
<b>SURGE / NOISE SUPPRESSION</b>	
AC surge suppression:	Conforms to IEEE 587 / ANSI C62.41 specifications
AC suppression response time:	Instantaneous
EMI / RFI AC noise suppression:	Yes
<b>PHYSICAL</b>	
Shipping weight (lbs):	343.5
Shipping weight (kg):	155.9
Unit weight (lbs):	Power Module: 53.5 lbs., Battery Pack: 136.5 lbs., Step-down Transformer: 100 lbs.
Unit weight (kg):	Power Module: 24kg, Battery Pack: 61kg, Step-down Transformer: 45kg
Unit Dimensions (HWD/in):	Power Module 5.14 x 17.5 x 22.5, Step-down Transformer 5.14 x 17.5 x 26, Battery Pack 5.25 x 17.5 x 23.5 (Step-down transformer max depth is 24 inches when compatible SUPDM backplate is used)
Unit Dimensions (HWD/cm):	Power Module 13.1 x 44.5 x 57.2 Step-down Transformer 13.1 x 44.5 x 66 Battery Pack 13.1 x 44.5 x 57.2

<b>Material of construction:</b>	Steel
<b>Form factors supported:</b>	Supports 9U rackmount installation in 4 post rack enclosures. 2 post rackmount installation supported with optional 2POSTRMKIT (3 required). Upright tower installation supported with included tower stands
<b>Cooling method:</b>	Built-in cooling fan
<b>Battery Access:</b>	User replaceable, hot swappable external battery pack
<b>ENVIRONMENTAL</b>	
<b>Operating Temperature:</b>	+32 to +104 degrees Fahrenheit 0 to +40 degrees Celsius
<b>Storage Temperature:</b>	+5 to +122 degrees Fahrenheit -15 to +50 degrees Celsius
<b>Relative Humidity:</b>	0 to 95%, non-condensing
<b>COMMUNICATIONS</b>	
<b>Network monitoring port:</b>	Includes 2 built-in DB9 monitoring ports (1-RS232 / 1-contact closure)
<b>Software and cabling included:</b>	Includes PowerAlert UPS monitoring software for all common network and standalone operating systems. Cabling included.
<b>SNMP compatibility:</b>	Built-in accessory slot accommodates internal SNMP / Web card and other network accessories
<b>LINE / BATTERY TRANSFER</b>	
<b>Transfer time from line power to battery mode:</b>	Zero, online UPS continuously converts incoming AC to DC, then back to AC. When line power is interrupted, UPS maintains continuous output from battery reserves with absolutely no disruption in output AC power.
<b>Low voltage transfer to battery power:</b>	Maintains continuous operation during undervoltages as low as 156V AC. Below this point, output is maintained utilizing battery reserves.
<b>High voltage transfer to battery power:</b>	Maintains continuous operation during overvoltages to 276V AC. Above this point, output is maintained utilizing battery reserves.
<b>CERTIFICATIONS</b>	
<b>Certifications:</b>	UL1778 (USA), cUL (Canada), CE (Europe), FCC Class A (emissions), NOM (Mexico)
<b>WARRANTY</b>	
<b>Optional coverage:</b>	3 year, 5 year, next day and on-site warranty coverage available for select opportunities - contact Tripp Lite
<b>Product warranty:</b>	2 year product warranty
<b>Connected equipment insurance (USA and Canada Only):</b>	\$250,000 connected equipment insurance (USA and Canada only)
<b>SPECIAL FEATURES</b>	
<b>EPO port:</b>	Includes dedicated EPO (emergency power off) interface and cabling
<b>Cold Start:</b>	Yes, inverter can be "cold started" to enable temporary AC output during a power failure
<b>Appearance:</b>	Attractive black steel rackmount housing
<b>BATTERY PACK ACCESSORY (optional)</b>	
<b>Battery Pack Accessory (optional):</b>	BP240V10RT3U (optional)

*The policy of Tripp Lite is one of continuous improvement.  
Specifications are subject to change without notice.  
Therefore, your product may vary slightly from what is currently listed.*



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