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Model #: SU10KRT3U

SmartOnline Expandable Rack / Tower UPS System - On-line, double-conversion protection for mission critical applications

Highlights



- 10,000VA (10kVA) / 8,000W on-line 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 208V 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, Puerto Rico & Canada only)

Description

Tripp Lite 10,000VA (10kVA) SmartOnline Rack/Tower UPS. The 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 10,000VA/8,000W power module converts raw input AC to DC, then back to perfect sine wave AC output within 2% of 208V 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 through the addition of optional external 3U rackmount battery packs, sold separately (part# BP240V10RT3U). Includes slot for internal SNMP/Web card (part# SNMPWEBCARD), plus two DB9 enhanced serial and contact closure monitoring ports for unattended shutdown, remote control and monitoring of UPS system and power data.

Applications

Ideal for protection of critical 208V 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.

Package Includes

- SU10KRT3U UPS System (power module, hardwire PDU, step-down transformer module and battery pack)
- PowerAlert Software and cabling
- Mounting hardware for 4 post rackmount enclosures/tower stands
- Instruction manual with warranty information
- Flex conduit and wiring for connection between power module and transformer

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

10,000VA/8,000W power capacity with hardwire input/output connections
 Accepts input voltages between 156 and 276, regulating output within 2% of 208V and 120V AC output
 Standard included 3U battery pack provides 10 minutes runtime at half load (5,000VA) and 4 minutes runtime at full load (10,000VA)
 Expandable runtime with multiple external battery packs, sold separately (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 and LCD provide complete overview of operating conditions, UPS status and more
 Mounting hardware included with each 3U module for 4-post rackmount installation, 2-post telecom rack compatible with separate purchase of 2POSTRMKITWM 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](#)

Specifications

SYSTEM OVERVIEW	
Voltage compatibility	200/ 208/ 220/ 230/ 240v and 120v (output only)
Frequency compatibility	50/60Hz
OUTPUT	
Output VA	10000
Output watts	8000
Output nominal voltage	200, 208, 220, 230, 240V & 120V AC
Output voltage regulation	Maintains pure sine wave output at all times, regulated within 2% of selected nominal output voltage, less than 5% total harmonic distortion
Output frequency regulation	Regulates line frequency to 50/60Hz +/- 0.05Hz
Outlet quantity / type	Hardwire
Overload protection	Resettable 63A circuit breaker
INPUT	
Input connection type	Hardwire
Recommended electrical service	50A 208V
BATTERY	
Full load runtime	Included batteries — 4 min. (10,000VA)
Half load runtime	Included batteries — 10 min (5,000VA)
Expandable battery runtime	Supports extended runtime with optional external battery pack BP240V10RT3U (multi-pack compatible)
DC system voltage	240V DC
Typical battery lifespan	3-6 years, depending on usage
Battery recharge rate	Less than 4 hours to 90% (included battery set only)
VOLTAGE REGULATION	
Voltage regulation description	On-line, double-conversion process allows this UPS 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, regulating output within 2% of selected nominal
Brownout correction	Maintains continuous operation without using battery power during brownout / undervoltage conditions to 156V AC, regulating output within 2% of selected nominal
LEDS ALARMS & SWITCHES	
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
SURGE / NOISE SUPPRESSION	
AC surge suppression	1320 joules
AC suppression response time	Instantaneous
EMI / RFI AC noise suppression	Yes
PHYSICAL	
Shipping weight (lbs)	460
Shipping weight (kg)	207
Unit weight (lbs)	Power Module: 57.2 lbs(62.2 lbs w/SUDPM710HW), Battery Pack: 158.73 lbs., Step-down Transformer: 102 lbs.
Unit weight (kg)	Power Module: 26kg (28kg w/SUPDM710HW), Battery Pack: 71.4kg, Step-down Transformer: 46kg
Unit Dimensions (HWD/in)	Power Module 5.25 x 17.5 x 26 (31.25 w/SUPDM710HW), Battery Pack 5.25 x 17.5 x 26, Step-down Transformer 5.25 x 17.5 x 26
Unit Dimensions (HWD/cm)	Power Module 13.3 x 44.5 x 66 (79.4 w/SUPDM710HW), Battery Pack 13.3 x 44.5 x 66, Step-down Transformer 13.3 x 44.5 x 66
Material of construction	Steel
Form factors supported	Rack (9U)
Cooling method	Built-in cooling fan
Battery Access	User replaceable, hot swappable external battery pack
ENVIRONMENTAL	
Operating Temperature	+32 to +104 degrees Fahrenheit
Storage Temperature	+5 to +122 degrees Fahrenheit
Relative Humidity	0 to 95%, non-condensing
COMMUNICATIONS	
Network monitoring port	Includes 2 built-in DB9 monitoring ports (1-RS232 / 1-contact closure)
Software and cabling included	Includes PowerAlert UPS monitoring software for all common network and standalone operating systems. Cabling included.
SNMP compatibility	Built-in accessory slot accommodates internal SNMP / Web card and other network accessories
WatchDog compatibility	Yes, compatible with Tripp Lite's Watchdog system service to restore operation to locked equipment through soft reboot of application / OS or hard power off/on reboot of connected equipment ideal for unattended kiosk applications
LINE / BATTERY TRANSFER	
Transfer time from line power to battery mode	Zero transfer time: on-line 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.
Low voltage transfer to battery power	Maintains continuous operation during undervoltages as low as 156V AC. Below this point, output is maintained utilizing battery reserves.

High voltage transfer to battery power	Maintains continuous operation during overvoltages to 276V AC. Above this point, output is maintained utilizing battery reserves.
CERTIFICATIONS	
Certifications	Tested to UL1778 (USA), Tested to CSA (Canada), CE (Europe), FCC Class A (emissions), NOM (Mexico)
WARRANTY	
Product warranty	2 year product warranty
Connected equipment insurance (USA and Canada Only)	\$250,000 connected equipment insurance (USA and Canada only)
Optional coverage	3 year, 5 year, next day and on-site warranty coverage available for select opportunities - contact Tripp Lite
SPECIAL FEATURES	
EPO port	Includes dedicated EPO (emergency power off) interface and cabling
Cold Start	Yes, inverter can be "cold started" to enable temporary AC output during a power failure
Appearance	Attractive black steel rackmount housing
BATTERY PACK ACCESSORY (optional)	
Battery Pack Accessory (optional)	BP240V10RT3U

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