

# Model #: SU10000RT3U2TF

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



## **Highlights**

10,000VA / 10kVA online 10U rack / tower UPS with expandable runtime (3U Power Module + 3U Battery Pack + QTY 2 -2u stepdown transformers) Manual Bypass Switch and detachable PDU enables hot-swap UPS replacement without powering off connected loads Maintains 208V and simultaneous 120V output 2% output voltage regulation over an input voltage range of 156 to 276 Enhanced serial communications ports, SNMP/Web Card Slot and EPO interfaces

\$250,000 Ultimate LIfetime Insurance (USA & Canada only).

### **Description**

10,000 VA on-line, double-conversion UPS system for critical server, network and telecommunications equipment. Installs in only 10 rack spaces (3U power module, 3U battery pack and two 2U step-down transformers). Maximum installed rack depth of 32.5 in. Expandable battery runtime with optional BP240V10RT3U external battery packs. Full-time sine wave 208V and 120V +/-2% output. Actively converts raw incoming AC power to DC, then re-converts output back to completely regulated, filtered AC output. Operates continuously without using battery power during brownouts to 156V and overvoltages to 276V. Standard 3-wire 208V hardwire input connection; NEMA L6-30R, L6-20R and 5-15/20R output receptacles. Detachable input-output PDU module with manual bypass switch enables hot-swap UPS replacement without disrupting power to connected equipment. Network-grade AC surge and noise suppression. Zero transfer time between AC and battery operation. Network management interfaces support communications via RS-232, contact-closure port and optional SNMPWEBCARD slot. Supports detailed monitoring of equipment load levels, self-test data and mains power conditions via network interfaces. Includes PowerAlert monitoring software and complete cabling. Emergency Power Off (EPO) interface. Front panel LEDs offer at-a-glance confirmation of line power status, battery power status, AC-to-DC conversion, DC-to-AC conversion, bypass mode and output power status. LED/LCD display panel easily rotates for better viewing in rackmount or tower configurations. LCD panel with scroll buttons offers detailed diagnostic test information at startup and during self tests, plus real-time data on input and output voltage, frequency (Hz), load percentage and battery charge level. Audible alarm. Self-test. Fault-tolerant auto-bypass mode. 4-post rackmount accessories and 2-9USTAND tower kit included; 2POSTRMKITWM two post rackmount hardware accessories available. Field-replaceable, hot-swappable power module and external battery 2-year warranty and \$250,000 connected equipment insurance; extended warranty and service contracts available.

#### Applications

Ideal for protection of sensitive electronics in any application calling for upright tower or 19-in. rackmount UPS protection. Common applications include any mix of servers, workstations, hubs, routers, concentrators, IP telephony and traditional PBX switching systems

#### Package Includes

3U power module with detachable hot-swap PDU input/output panel and manaul bypass switch

3U external battery pack

2 x 2U step-down transformers

Two sets of 4-post rackmount rails (one for each 3U component); one set of tower stands for upright tower installation PowerAlert Software, complete data cabling, user manual with warranty information

## **Features**

10,000 VA on-line, double-conversion UPS system (high voltage input/high AND low voltage output)

Detachable input-output PDU module with manual bypass switch enables hot-swap UPS replacement without powering off connected equipment Installs in only 10 rack spaces (3U power module, 3U battery pack, 2 x 2U step-down transformers) with a maximum installed depth of 32.5 inches

Offers 4 min. runtime at full load (10,000VA/8000W) and 10 min. at half load (5000VA/4000W). Runtime is expandable with any number of optional BP240V10RT3U external battery packs

Full-time sine wave 208V and simultaneous 120v +/-2% output

Actively converts raw incoming AC power to DC, then re-converts output back to completely regulated, filtered AC output

Operates continuously without using battery power during brownouts to 156V and overvoltages to 276V

Standard 3-wire 208V hardwire input connection

2 NEMA L6-30R, 4 L6-20R and 24 5-15/20R output receptacles

Detailed LCD panel with scroll buttons offers detailed diagnostic test

Network-grade AC surge and noise suppression

Zero transfer time between AC and battery operation

Includes slot for internal SNMP/web card, plus DB9 enhanced serial monitoring port, and contact closure port for unattended shudown, remote control and monitoring of UPS system and power data

Supports detailed monitoring of equipment load levels, self-test data and mains power conditions via network interfaces. Includes PowerAlert monitoring software and complete cabling

Emergency Power Off (EPO) interface

Front panel LEDs offer at-a-glance confirmation of line power status, battery power status, AC-to-DC & DC-to-AC conversion, bypass mode and output power status.

Fault-tolerant auto-bypass mode prevents loss of output during UPS fault conditions or excessive UPS loading

4-post rackmount and upright tower installation accessories included; 2POSTRMKITWM 2-post rackmount hardware accessories available Field-replaceable, hot-swappable power module and external battery packs

Attractive all-black color scheme

2-year warranty; \$250,000 connected equipment insurance

Extended warranty and service contracts available

## **Specifications**

SYSTEM OVERVIEW		
Voltage compatibility	208V & 120V AC	
Frequency compatibility	50/60 Hz	
OUTPUT		
Output VA	10000	
Output watts	8000	
Output nominal voltage	208V & 120V AC	
Output voltage regulation	Maintains pure sine wave output at all times, regulated within 2% of selected nominal output voltage, less than 3% total harmonic distortion when used with computer loads	
Output frequency regulation	Regulates line frequency to 50/60Hz +/- 0.05Hz	
Outlet quantity / type	2 x NEMA L6-30R, 4 x NEMA L6-20R, 24 x NEMA 5-15/20R	
INPUT		
Maximum input amps	208V- 44.9A	
Input connection type	Hardwire	
BATTERY		
Full load runtime	4 min. (10,000VA/8000W)	
Half load runtime	10 min. (5000VA/4000W)	
Connects to UPS via	Included 3-wire DC cable	

DC system voltage	240VDC	
Typical battery lifespan	4-6 years	
Battery recharge rate	Less than 8 hours to 90% (included battery set only)	
VOLTAGE REGULATION		
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, 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. LED/LCD display panel easily rotates for better viewing in rackmount or tower configurations.	
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 suppression response time	Instantaneous	
EMI / RFI AC noise suppression	Yes	
PHYSICAL		
Shipping weight (lbs)	402	
Shipping weight (kg)	181	
Shipping Dimensions (HWD/in)	49.3 x 23 x 31.5	
Shipping Dimensions (HWD/cm)	125.1 x 58.4 x 80	
Unit weight (lbs)	Power Module (54.8), Step-down Transformers (60), Battery Pack (158.7)	
Unit weight (kg)	Power Module (24.7), Step-down Transformers (27), Battery Pack (71.4)	
Unit Dimensions (HWD/in)	Power Module 5.14 x 17.5 x 25, Step down transformers 3.5 x 17.5 x 20.8, Battery Pack 5.16 x 17.5 x 25 (Installed depth of power module extends to 32.5 inches once detachable PDU backplate is installed)	
Unit Dimensions (HWD/cm)	Power Module 13.3 x 44.4 x 63.5, Step down transformers 8.9 x 44.5 x 52.7, Battery Pack 13.4 x 40.6 x 63.5 (Installed depth of power module extends to 82.6 cm once detachable PDU backplate is installed)	
Material of construction	Steel	
Form factors supported	Rack (10U)	
Cooling method	Fan	
Battery Access	User replaceable, hot swappable external battery pack	
ENVIRONMENTAL		
Operating Temperature	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius	
Storage Temperature	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius	
Relative Humidity	0 to 95%, non-condensing	
Line mode BTU/hr. (Max.)	3022 btu/hr.	
Battery mode BTU/hr. (Max.)	3022 btu/hr.	

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 equipmentideal for unattended kiosk applications
LINE / BATTERY TRAN	SFER
Transfer time from line power to battery mode	Zero; 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 156VAC. 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), CSA C22.2 No. 107.3 (Canada), CE (European Union), NOM (Mexico), Class A (Emissions)
WARRANTY	
Product warranty	2 years
Connected equipment insurance (USA and Canada Only	\$250,000
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 all-black color scheme
BATTERY PACK ACCE	SSORY (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=3213.

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