

# SmartOnline Expandable Rack/Tower UPS System

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



## Model #: SU7500RT3U1TF

- ▶ 7500VA on-line 8U rack/tower UPS with expandable runtime (3U Power Module + 3U Battery Pack + 2U step-down transformer)
- ▶ Detachable PDU with manual bypass switch 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).



## 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

7,500 VA (7.5kVA) on-line, double-conversion UPS system for critical server, network and telecommunications equipment. Installs in only 8 rack spaces (3U power module, 3U battery pack and 2U step-down transformer). Maximum installed rack depth of 32.5 in. Expandable battery runtime with optional BP240V10RT3U and BP240V32 external battery packs. Full-time sine wave 208 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 Nema 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 utility power conditions via network interfaces. Includes PowerAlert monitoring software and complete cabling. 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. LCD panel with scroll buttons offers detailed diagnostic test information on startup and during self tests, plus real-time data on input and output voltage, frequency (Hz), load percentage and battery charge level. LED/LCD display panel easily rotates for viewing in rackmount or tower configurations. Audible alarm. Self-test. Fault-tolerant auto-bypass mode. 4-post rackmount accessories and 2-9U STAND tower kit included; 2-POSTRMKITWM two post rackmount hardware accessories available. Field replaceable, hot-swappable power module and external battery packs. Attractive all-black color scheme. 2-year warranty and \$250,000 connected equipment insurance; extended warranty and service contracts available.

## KEY BUYING POINTS

- 7,500 VA (7.5kVA) 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 8 rack spaces (3U power module / 3U battery pack / 2U step-down transformer) with a maximum installed depth of 32.5 inches

- Offers 9 min. runtime at full load (7500VA/6000W) and 20 min. at half load (3750VA/3000W). 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 x NEMA L6-30R, 2 x L6-20R and 12 x 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 shutdown, 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 two 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

## TYPICAL APPLICATIONS

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

## OPTIONS & ACCESSORIES

- SNMP accessories: [SNMPWEBCARD](#), [ENVIROSENSE](#)
- External battery pack: [BP240V10RT3U](#), [BP240V32](#)
- AS400/iSeries Shutdown Cable Kit: [AS400 CABLE KIT](#)
- Two Post Rackmount Kit: [2POSTRMKITWM](#) (qty 3 required)
- Extended warranties: 3 Year [WEXT3-SU10K](#), 5 Year [WEXT5-SU10K](#)
- Start-up service plus on-site warranties: 2 Year [WOS2-10K](#), 3-Year [WOS3-10K](#), 5 Year [WOS5-10K](#)
- Start-up service only: [WSTRTUP-6-10K](#)

## PACKAGE INCLUDES

- 3U power module with detachable hot-swap PDU input/output panel and bypass switch
- 3U external battery pack, 2U step-down transformer
- Three sets of 4 post rackmount rails (one for each of the 2U and 3U components)
- One set of tower stands for upright tower configuration
- PowerAlert software, complete data cabling, user manual with warranty information

## COMPLETE SPECIFICATIONS

### SYSTEM OVERVIEW

<b>System overview:</b>	7.5kVA online, double-conversion UPS with high voltage input, high AND low voltage output, expandable battery runtime and hot swap detachable PDU with bypass switch
<b>Voltage compatibility:</b>	208V & 120V AC

**Frequency compatibility:** 50/60 Hz

## OUTPUT

**Output volt amp capacity (VA):** 7500

**Output watt capacity (watts):** 6000

**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:** 4 NEMA L6-20R, 2 NEMA L6-30R, 12 NEMA 5-15/20R

## INPUT

**Maximum input amps:** 208v - 33.7A

**Input connection type:** Hardwire

## BATTERY

**Full load runtime:** 9 min. (7500VA/6000W)

**Half load runtime:** 20 min. (3750VA/3000W)

**Expandable battery runtime:** Expandable with optional BP240V10RT3U and BP240V32 external battery packs

**DC system voltage:** 240VDC

**Typical battery lifespan:** 4-6 years

**Battery recharge rate:** 2-8 hours to 90%

**Connects to UPS via:** Included 3 wire DC cable

## 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 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

**Unit weight (lbs):** Power Module 55 lbs., Battery Pack: 136.5 lbs., Step-down transformer: 57 lbs.

**Unit weight (kg):** Power Module 25 kg., Battery Pack: 62 kg, Step down transformer: 25.9 lbs.

**Unit Dimensions (HWD/in):** Power Module 5.14 x 17.5 x 25, Battery Pack 5.14 x 17.5 x 25, Step down transformer 3.5 x 17.5 x 20.75 (Installed depth of power module extends to 32.5 inches once detachable PDU

	backplate is installed)
<b>Unit Dimensions (HWD/cm):</b>	Power Module 13.3 x 44.4 x 63.5, Battery Pack 13.4 x 40.6 x 63.5, Step down transformer 8.9 x 40.6 x 52.7 (Installed depth of power module extends to 82.6 cm once detachable PDU backplate is installed)
<b>Shipping Dimensions (HWD/in):</b>	49.25 x 31.5 x 23
<b>Shipping Dimensions (HWD/cm):</b>	125.1 x 80 x 58.4
<b>Material of construction:</b>	Steel
<b>Form factors supported:</b>	Rack/Tower (8U)
<b>Cooling method:</b>	Fan
<b>Battery Access:</b>	User replaceable, hot swappable external battery pack

## ENVIRONMENTAL

<b>Operating Temperature:</b>	+32 to +104 degrees Fahrenheit
<b>Storage Temperature:</b>	+5 to +122 degrees Fahrenheit
<b>Relative Humidity:</b>	0 to 95%, non-condensing
<b>Line mode BTU/hr. (Max.):</b>	2025 btu/hr. (91% efficiency line mode)
<b>Battery mode BTU/hr. (Max.):</b>	2792 btu/hr. (88% efficiency battery mode)

## COMMUNICATIONS

<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

## LINE / BATTERY TRANSFER

<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 156VAC. 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.

## CERTIFICATIONS

<b>Certifications:</b>	Tested to UL1778 (USA), CSA C22.2 No. 107.3 (Canada), CE (European Union), NOM (Mexico), Class A (Emissions)
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## WARRANTY

<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 years
<b>Connected equipment insurance (USA and Canada Only):</b>	\$250,000 connected equipment insurance (USA and Canada only)

## SPECIAL FEATURES

<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 all-black color scheme

## BATTERY PACK ACCESSORY (optional)

<b>Battery Pack Accessory (optional):</b>	BP240V10RT3U, BP240V32
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Specifications are subject to change without notice.  
Therefore, your product may vary slightly from what is currently listed.*



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