

# SmartOnline Expandable Rack / Tower UPS System

Online, double-conversion protection for mission critical applications



## Model #: SU5000RT3UHV

- ▶ 5000VA online 5U rack / tower UPS (3U Power Module + 2U Battery Pack)
- ▶ Enhanced serial communications ports, SNMP/Web card slot and EPO jack
- ▶ Maintains 200, 208, 220, 230 or 240V output +/-2% during brownouts to 156 and overvoltages to 276V
- ▶ Expandable runtime with optional external battery packs
- ▶ \$250,000 Ultimate Lifetime Insurance (USA, Puerto Rico & 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 5kVA Smart Online RM UPS. 5000VA on-line, double-conversion UPS for server, network and telecommunications equipment. Maintains battery derived AC output during blackouts with active, full-time power conditioning. Fault-tolerant auto-bypass prevents unexpected service interruptions during overload or internal fault conditions. 3U power module and 2U battery pack install in 5 rack spaces. Full-time sine wave output within 2% of selectable 200/208/220/230/240V AC. Corrects brownouts to 156V and overvoltages to 276V. Frequency regulation locks output power to 50/60Hz (+/-0.2%) / Expandable runtime with optional rackmount external battery packs. Double-conversion UPS converts raw input from AC to DC, then back to perfect sine wave AC output with enhanced protection from harmonic distortion, fast electrical impulses and other hard-to-solve power problems not addressed by other UPS types. Network-grade AC surge and noise suppression. Network management interfaces include 2 DB9 ports and SNMPWEBCARD slot. Supports simultaneous detailed monitoring of equipment load levels, self-test data and utility power conditions via all 3 network interfaces. Includes PowerAlert monitoring software and complete cabling. Emergency Power Off (EPO) interface. Front panel LEDs and LCD readout with scroll controls support visual monitoring of all major UPS functions. Audible alarm. Self test. 4-post rackmount accessories included; 2-9USTAND and 2POSTRMKITWM accessories available. L6-30P plug-in connection; built-in L6-30 & L6-20 outlets. Power Distribution Unit (PDU) options supported. Field-replaceable, hot-swappable 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

- True online, double-conversion UPS provides pure, full-time sine wave AC output free of surges, voltage fluctuations and line noise
- 5000VA / 3500 watt output power capacity compatible with 200-240V applications at 50/60 Hz
- 3U power module and 2U battery pack installs in any 19 inch rack enclosure using only 5 rack spaces
- Double conversion UPS actively converts raw input from AC to DC, then back to perfect sine wave AC output with enhanced protection from harmonic distortion, fast electrical impulses and other hard-to-solve power problems not addressed by other UPS types
- Provides perfectly regulated, sine wave output power free of line noise, transient surges and frequency variation for the most efficient operation of critical servers, networking and telecommunications equipment
- Accepts input voltages between 156 and 276, regulating output within 2% of selected 200/208/220/230/240V nominal voltage
- Supports connected equipment during blackouts for 20/8 minutes at half/full load levels. Runtime is further expandable with optional

- external battery packs
- Network interfaces support simultaneous communications via 2 DB9 ports and SNMPWEBCARD slot
- Included PowerAlert UPS monitoring software supports safe unattended shutdown, monitoring and control via local connected servers, plus any number of additional servers over IP
- Communications ports support on-battery, low-battery, power-restored, AC-voltage, DC-voltage, output current monitoring, battery charge current, battery capacity, AC line frequency, timed inverter shutoff, activate self-test and output power control
- Built-in Emergency Power Off (EPO) interface with cable
- Includes 4 built-in output receptacles (2 L6-30R, 2 L6-20R)
- L6-30P input plug-in connection
- Front panel LEDs and LCD readout with scroll button enables visual confirmation of all major UPS functions and current site electrical conditions
- Front panel switches enable power on/off control, self-test and alarm cancel functions
- Included adjustable mounting rails support installation in 4 post 19 inch rack enclosures. Optional 2POSTRMKITWM supports 2 post rackmount installation
- UPS ships fully assembled in full compliance with DOT regulations, no time consuming connection of internal batteries by user is required
- 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
- 2 year manufacturer's product warranty, \$250,000 Ultimate Lifetime Insurance (USA & Canada only)

## 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](#)
- AS400/iSeries Shutdown Cable Kit: [AS400 CABLE KIT](#)
- External battery pack: [BP240V10RT3U](#)
- Tower Stands: [2-9USTAND](#)
- Dataline protectors: [DNET1](#), [DTEL2](#), [DCATV](#)
- Two Post Rackmount Kit: [2POSTRMKITWM](#) (2 required)
- Extended warranties: 3 Year [WEXT3-5000](#), 5 Year [WEXT5-5000](#)

## COMPLETE SPECIFICATIONS

### SYSTEM OVERVIEW

<b>System overview:</b>	Online, double conversion rack / tower UPS system
<b>Voltage compatibility:</b>	208V AC (200/208/220/230/240V)
<b>Frequency compatibility:</b>	50/60Hz

### OUTPUT

<b>Output volt amp capacity (VA):</b>	5000
<b>Output watt capacity (watts):</b>	3500
<b>Output nominal voltage:</b>	208V AC (200/208/220/230/240V)
<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
<b>Outlet quantity / type:</b>	2 NEMA L6-30R, 2 NEMA L6-20R
<b>Overload protection:</b>	Resettable circuit breaker

### INPUT

<b>Maximum input amps:</b>	24A 208V / 21A 240V
<b>Input connection type:</b>	NEMA L6-30P
<b>Input cord length:</b>	10 ft / 3 m
<b>Recommended electrical service:</b>	30A at 200, 208, 220, 230, 240V

## BATTERY

<b>Full load runtime:</b>	8 minutes (5000VA / 3500 watts)
<b>Half load runtime:</b>	20 minutes (2500VA / 1750 watts)
<b>Expandable battery runtime:</b>	Yes, with optional BP240V10RT3U external battery packs
<b>DC system voltage:</b>	240V DC
<b>Typical battery lifespan:</b>	4-6 years
<b>Battery recharge rate:</b>	2-4 hours

## VOLTAGE REGULATION

<b>Voltage regulation description:</b>	On-line, double-conversion process give this UPS the ability to maintain output voltage within +/-2% of selected nominal voltage at all times
<b>Overvoltage correction:</b>	Maintains continuous operation without using battery power during overvoltages to 276V AC, regulating output within 2% of selected nominal
<b>Brownout correction:</b>	Maintains continuous operation without using battery power during brownout / undervoltage conditions to 156VAC, regulating output within 2% of selected nominal

## LEDS ALARMS & SWITCHES

<b>Front panel LEDs:</b>	6 LED DISPLAY: line power, bypass, inverter, charger, output AC and battery operation.
<b>Alarms:</b>	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
<b>Switches:</b>	Includes main power off/on switch, plus 2 switches to set and execute scrollable LCD functions

## PHYSICAL

<b>Shipping weight (lbs):</b>	196
<b>Shipping weight (kg):</b>	89.1
<b>Unit weight (lbs):</b>	Power Module: 42 lbs., Battery Pack: 92 lbs.
<b>Unit weight (kg):</b>	Power Module: 19.1kg, Battery Pack: 41.8kg
<b>Unit Dimensions (HWD/in):</b>	Power Module: 5.25 x 17.5 x 26, Battery Pack: 3.5 x 17.5 x 22.5
<b>Unit Dimensions (HWD/cm):</b>	Power Module: 13.3 x 44.5 x 66 , Battery Pack: 8.9 x 44.5 x 57.2
<b>Shipping Dimensions (HWD/in):</b>	25 x 40 x 48
<b>Shipping Dimensions (HWD/cm):</b>	63.5 x 101.6 x 121.9
<b>Material of construction:</b>	Steel
<b>Form factors supported:</b>	Rack (5U)
<b>Cooling method:</b>	Fan

## 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

## 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
<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 156VAC. Below this point, output is maintained utilizing battery reserves.
<b>High voltage transfer to battery power:</b>	Maintains continuous operation during overvoltages to 276VAC. Above this point, output is maintained utilizing battery reserves.
<b>CERTIFICATIONS</b>	
<b>Certifications:</b>	UL1778 (USA), cUL (Canada), Class A (Emissions), CE, NOM (Mexico), GOST, SASO
<b>WARRANTY</b>	
<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>Optional coverage:</b>	3 year, 5 year, next day and on-site warranty coverage available for select opportunities - contact Tripp Lite
<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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