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## Model #: SU5000RT3UHV

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

### Highlights



- 5000VA / 5kVA online, double-conversion, extended-run 5U rack / tower UPS (3U power module & 2U battery pack)
- Zero transfer time, on-line, double-conversion and economy-mode operation supported
- Maintains sine-wave 200/208/220/230/240V +/-2% during brownouts and overvoltages from 156 to 276V (50/60Hz auto-sensing)
- Simultaneous communications via serial, contact-closure, EPO and optional SNMP/Web card accessory
- Fault tolerant auto-bypass mode, remote current and site electrical condition monitoring
- Input: NEMA L6-30P (208/240V) / Output: 2 L6-30R & 2 L6-20R (208/240V)
- 2 year product warranty / \$250,000 [Ultimate Lifetime Insurance](#) (USA & Canada only)

### 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. Highly efficient operation in optional economy mode setting, saving BTU heat output and energy costs. 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; 2-9U STAND and 2-POST RACK KIT W/ M 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.

### Features

- 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)

## Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	5000
Output kVA capacity (kVA)	5
Output Watt Capacity (watts)	3500
Output kW capacity	3.5
Output power factor	0.7
Crest Factor	3:1
Nominal Output Voltage(s) Supported	200V; 208V; 220V; 240V
Nominal Voltage details	Voltage selection via front panel LCD interface
Frequency compatibility	50 / 60 Hz
Frequency compatibility details	Output frequency matches input nominal on startup
Output voltage regulation (line mode)	+/- 2%
Output voltage regulation (Economy line mode)	+/- 10%
Output voltage regulation (Battery mode)	+/- 2%
Built-in UPS output receptacles	2 L6-20R outlet(s); 2 L6-30R outlet(s)

<b>Output circuit breaker</b>	20A double-pole breaker protects L6-20R outlets, L6-30R outlets are unbreakered
<b>Basic PDU options</b>	<a href="#">PDU1230</a> (1U / 2 C19, 16 C13 outlets); <a href="#">PDUNV</a> (1U / 2 C19, 12 C13 outlets); <a href="#">PDUV30HV</a> (0U / 6 C19, 32 C13 outlets)
<b>Metered PDU options</b>	<a href="#">PDUMV20HV</a> (0U / 6 C19, 32 C13 outlets); <a href="#">PDUMV30HV</a> (0U / 6 C19, 24 C13 outlets)
<b>Switched PDU options</b>	<a href="#">PDUMH20HVNET</a> (1U / 8 C13 outlets); <a href="#">PDUMH30HVNET</a> (2U / 16 C13 outlets); <a href="#">PDUMV20HVNET</a> (0U / 4 C19, 24 C13 outlets); <a href="#">PDUMV30HVNET</a> (0U / 4 C19, 24 C13 outlets)
<b>Output AC waveform (AC mode)</b>	Sine wave
<b>Output AC waveform (battery mode)</b>	Sine wave
<b>INPUT</b>	
<b>Rated input current (at maximum load)</b>	24A (208V), 21A (240V)
<b>Nominal Input Voltage(s) Supported</b>	200V AC; 208V AC; 220V AC; 230V AC; 240V AC
<b>UPS input connection type</b>	L6-30P
<b>UPS Input cord length (ft.)</b>	10
<b>UPS Input cord length (m)</b>	3
<b>Recommended Electrical Service</b>	30A 208/240V
<b>BATTERY</b>	
<b>Full load runtime (minutes)</b>	8 min. (3500w)
<b>Half load runtime (minutes)</b>	20 min. (1750w)
<b>Expandable battery runtime</b>	Supports extended runtime with optional external battery packs
<b>External battery pack compatibility</b>	<a href="#">BP240V10RT3U</a> ; <a href="#">BP240V557C-1PH</a> ; <a href="#">BP240V787C-1PH</a> ; <a href="#">BP240V1037C-1PH</a> ; <a href="#">BP240V1407C-1PH</a>
<b>DC system voltage (VDC)</b>	240
<b>Battery recharge rate (included batteries)</b>	Less than 6 hours from 10% to 80%
<b>Battery replacement description</b>	Hot-swappable, user replaceable batteries
<b>VOLTAGE REGULATION</b>	
<b>Voltage regulation description</b>	Online, double-conversion power conditioning
<b>Overvoltage correction</b>	2% output voltage regulation during overvoltages to 276
<b>Undervoltage correction</b>	2% output voltage regulation during undervoltages to 156
<b>LEDS ALARMS &amp; SWITCHES</b>	

<b>LED Indicators</b>	6 LEDs indicate line power, online mode, economy/bypass mode, on-battery, charger and AC output status; LCD screen offers additional information and control options
<b>Front panel LCD display</b>	Selectable LCD display with scroll and selection buttons enables UPS control and detailed monitoring options; LED/LCD panel rotates for viewing in rack/tower formats (see manual)
<b>Alarms</b>	Unique audible alarms for all major UPS, environmental and power conditions (see manual)
<b>Alarm cancel operation</b>	Alarm cancel switch
<b>Switches</b>	2 Switches control off/on power status and alarm-cancel/self-test operation; 2 additional switches support set and execute scrolling LCD functions
<b>SURGE / NOISE SUPPRESSION</b>	
<b>UPS AC suppression joule rating</b>	480
<b>UPS AC suppression response time</b>	Instantaneous
<b>EMI / RFI AC noise suppression</b>	Yes
<b>PHYSICAL</b>	
<b>Installation form factors supported with included accessories</b>	4 post 19 inch rackmount (mounting rail kit included)
<b>Included mounting accessory description</b>	2 sets of adjustable 4 post rack rails included
<b>Installation form factors supported with optional accessories</b>	2 post rackmount (2POSTRMKITWM); Tower (2-9USTAND)
<b>Optional mounting accessory notes</b>	2 sets of <a href="#">2POSTRMKITWM</a> required for 2 post rackmount installation of separate power module and battery pack
<b>Primary form factor</b>	Rackmount
<b>UPS / Power Module dimensions in primary form factor (height x width x depth / inches)</b>	5.2 x 17.5 x 26
<b>UPS / Power Module dimensions in primary form factor (height x width x depth / cm)</b>	13.3 x 44.4 x 66
<b>Installed whole system maximum rack depth (inches)</b>	26
<b>Installed whole system maximum rack depth (cm)</b>	66
<b>Installed whole system total rack space height (rack spaces)</b>	5U
<b>Secondary form factor</b>	Tower (requires <a href="#">2-9USTAND</a> )

<b>Installed whole system dimensions in secondary form factor (height x width x depth / inches)</b>	
<b>UPS dimensions in secondary form factor (height x width x depth / cm)</b>	
<b>UPS / Power Module weight (lbs)</b>	42
<b>UPS / Power Module weight (kg)</b>	19.1
<b>UPS dimensions details</b>	Includes 3U power module and 2U battery pack
<b>Stepdown transformer dimensions (height x width x depth / inches)</b>	
<b>Stepdown transformer dimensions (height x width x depth / cm)</b>	
<b>Included battery pack dimensions (height x width x depth / inches)</b>	3.5 x 17.5 x 22.5
<b>Included battery pack dimensions (height x width x depth / cm)</b>	8.9 x 44.4 x 57.2
<b>Included battery pack weight (lbs)</b>	92
<b>Included battery pack weight (kg)</b>	41.8
<b>UPS Shipping dimensions (height x width x depth / inches)</b>	25 x 40 x 48
<b>UPS Shipping dimensions (height x width x depth / cm)</b>	63.5 x 101.6 x 121.9
<b>Shipping weight (lbs)</b>	196
<b>Shipping weight (kg)</b>	89
<b>UPS housing material</b>	Steel
<b>Cooling method</b>	Fan
<b>ENVIRONMENTAL</b>	
<b>Operating Temperature Range</b>	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius
<b>Storage Temperature Range</b>	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius
<b>Relative Humidity</b>	0 to 95%, non-condensing
<b>AC mode BTU / hr. (full load)</b>	1322.2

AC economy mode BTU / hr. (full load)	759.6
Battery mode BTU / hr. (full load)	1322.2
AC economy mode efficiency rating (100% load)	94%
<b>COMMUNICATIONS</b>	
Communications interface	DB9 Serial; Contact closure; EPO (emergency power off); Slot for SNMP/Web interface
Network monitoring port description	RS232 and contact closure communications are located on two separate DB9 ports
PowerAlert software	Included
Communications cable	DB9 cable included
<b>LINE / BATTERY TRANSFER</b>	
Transfer time	No transfer time (0 ms.) in online, double-conversion mode
Low voltage transfer to battery power (setpoint)	156
High voltage transfer to battery power (setpoint)	276
<b>SPECIAL FEATURES</b>	
Cold Start (startup in battery mode during a power failure)	Cold-start operation supported
High availability UPS features	Automatic inverter bypass; Hot swappable batteries
Green & high efficiency features	High efficiency economy mode operation; Schedulable daily hours of economy mode operation
<b>CERTIFICATIONS</b>	
UPS Certifications	Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Tested to CE (EU); Tested to GOST (Russia); Tested to SASO (Saudi Arabia); Meets FCC Part 15 Category A (EMI); ROHS (Reduction of Hazardous Substances)
<b>WARRANTY</b>	
Product Warranty Period (U.S., Canada & Puerto Rico)	2 years
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$250,000 connected equipment insurance

## Related Items

### Optional Products

Product Type	Related Model	Description	Qty.
Shutdown Cable Kits	<a href="#">AS400CABLE KIT</a>	Power Management Tools - UPS Communication Cable Kit for System i / AS400 / iSeries Servers	-

SNMP Accessories	<a href="#">SNMPWEBCARD</a>	For remote monitoring and control via SNMP, Web, or Telnet.	-
SNMP Accessories	<a href="#">ENVIROSENSE</a>	Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.)	-
Extended Warranties	<a href="#">WEXT3-SU5000HV</a>	3-Year Extended Warranty - For SU5000RT3UHV UPS only	-
Extended Warranties	<a href="#">WEXT5-SU5000HV</a>	5-Year Extended Warranty - For SU5000RT3UHV UPS only	-
Surge Protectors	<a href="#">DNET1</a>	Network Surge Suppressor - Essential protection for data and communication lines	-
Surge Protectors	<a href="#">DTEL2</a>	Network Surge Suppressor - Essential protection for data and communication lines	-
External Battery Packs	<a href="#">BP240V10RT3U</a>	External Battery Pack and Cable. 3U, Expandable, Black 3-Point Connector	-
External Battery Packs	<a href="#">BP240V557C-1PH</a>	External battery pack for use with select Tripp Lite UPS Systems	-
External Battery Packs	<a href="#">BP240V787C-1PH</a>	External battery pack for use with select Tripp Lite UPS Systems	-
External Battery Packs	<a href="#">BP240V1037C-1PH</a>	External battery pack for use with select Tripp Lite UPS Systems	-
External Battery Packs	<a href="#">BP240V1407C-1PH</a>	External battery pack for use with select Tripp Lite UPS Systems	-
Tower Stands	<a href="#">2-9USTAND</a>	Enables Tower Placement of Rackmount UPS Systems	-
Rackmount/Wallmount Kits	<a href="#">2POSTRMKITHD</a>	Enables 2-Post Rackmount Installation of 3U and Larger UPS, Transformer and Battery Pack Components	-

More information, including related products, owner's manuals, and additional technical specifications, can be found online at [www.tripplite.com/en/products/model.cfm?txtModelID=2874](http://www.tripplite.com/en/products/model.cfm?txtModelID=2874).

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