



## Model #: SU6000RT3U

**SmartOnline 6kVA On-Line Double-Conversion UPS, Hot-Swap, Economy-Mode, Extended-Run & SNMP card options, 9U Rack/Tower, 208/240+120V, Hardwire**



### Highlights

- 6000VA online 9U rack / tower UPS (3U Power Module + 3U Step-down Transformer + 3U Battery Pack)
- Zero transfer time, on-line, double-conversion and economy-mode operation supported
- Enhanced serial communications ports, SNMP/Web card slot and EPO jack
- Maintains 208/240 plus 120V output +/-2% during brownouts to 156 and overvoltages to 276V
- Fault tolerant manual and auto bypass modes
- Expandable runtime with optional external battery packs
- \$250,000 [Ultimate Lifetime Insurance](#) (USA, Puerto Rico & Canada only)

### Description

Tripp Lite SU6000RT3U on-line, double-conversion UPS protects server, networking or telecommunications equipment from blackouts, voltage fluctuations and surges in a compact tower/rackmount housing. In a rack configuration, the 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 6000VA/4200 watt power module double-conversion technology converts raw input AC to DC, then resynthesizes it back to perfect sine wave AC output within 2% of user-selectable 208V/240V and 120V AC output voltages. Frequency regulation locks output power to 50/60Hz (+/-0.2 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 uptime and compatibility with all equipment types. Hardwire input and output connections support a variety of permanent or PDU style power connections. Highly efficient operation in optional economy mode setting, saving BTU heat output and energy costs. Battery support can be extended through the addition of external battery packs. Includes accessory slot for optional monitoring and management cards, plus DB9 contact-closure, and DB9 enhanced serial monitoring ports for unattended shutdown, remote control and monitoring of UPS system and power data.

### Package Includes

- SU6000RT3UPM 3U power module
- SU6000XFMRRT3U 3U step-down isolation transformer
- 240V 3U external battery pack
- Four post compatible rack rail kit (3 sets)
- PowerAlert software, complete data cabling and user manual

### Features

- Tripp Lite SU6000RT3U 6kVA / 6,000VA / 4200 watt on-line, double-conversion UPS system in 9U total rack/tower configuration (3U UPS power module, 3U external battery pack and 3U step-down transformer)
- Included step-down transformer with manual bypass switch enables hot-swappable UPS power module replacement with no interruption in output power to connected networking equipment
- Fault-tolerant auto-bypass prevents unexpected service interruptions during UPS overload or internal fault conditions
- Hardwire input and output connections

- Full-time active power conditioning provides clean, continuous dual-conversion AC output free of voltage fluctuations, power interruptions and line noise
- Double-conversion operation converts raw input from AC to DC, then re-synthesizes output power back to perfect sine wave AC with enhanced protection from harmonic distortion, fast electrical impulses and other hard-to-solve power problems not addressed by other UPS types
- Accepts input voltages between 156 and 276, regulating output within 2% of selectable 208/240 and 120V AC output
- Standard included 3U battery pack provides 20 minutes runtime at half load (3000VA) and 8 minutes at full load (6000VA)
- Expandable runtime is supported with optional BP240V10RT3U; BP240V557C-1PH; BP240V787C-1PH; BP240V1037C-1PH; BP240V1407C-1PH external battery packs
- Highly efficient operation in optional economy mode significantly reduces BTU heat output and operating energy costs
- PowerAlert monitoring software offers detailed site power and UPS updates with support for safe auto-shutdown of connected systems as UPS batteries become depleted
- Includes Free PowerAlert monitoring software packages; PowerAlert LOCAL for desktops and small business networks, PowerAlert NSA (Network Shutdown Agent) for larger networks and PowerAlert NMS (Network Management System) for monitoring up to 250 SNMP-enabled UPS, PDU and other networking devices
- Supports detailed monitoring of equipment load levels, self-test data and utility power conditions via built-in RS-232 interfaces
- Optional SNMPWEBCARD offers communications and control via secure remote web and network interfaces
- Optional RELAYIOCARD supports six configurable hard contact closure outputs for custom event notification
- Supports Emergency Power Off (EPO) via built-in interface
- Included rail kit supports 9U 19 inch rackmount installation in 4 post racks
- Optional 2POSTRMKITHD supports installation in 2 post 19 inch racks
- Front panel LED's and LCD readout with scroll controls and supports visual monitoring of all major UPS functions and advanced UPS settings for nominal voltage selection, economy mode, and other operational parameters
- LED / LCD display panel rotates for viewing in rackmount or tower configurations
- Network-grade AC surge and noise suppression
- External battery packs are field replaceable and hot swappable

## Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	6000
Output kVA capacity (kVA)	6
Output Watt Capacity (watts)	4200
Output kW capacity	4.2
Output power factor	0.7
Crest Factor	3:1
Nominal Output Voltage(s) Supported	120V; 208V; 240V
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%

<b>Built-in UPS output receptacles</b>	Hardwire
<b>Output receptacle backplate options</b>	Optional backplates SUPDM12 (for 208v nominal), SUPDM14 (for 240v nominal), SUPDM16 (for 208v nominal) add low and high voltage outlets, plus L6-30P input cord
<b>Output circuit breaker</b>	40A double-pole
<b>Basic PDU options</b>	<a href="#">PDU1220</a> (1U / 13 5-15/20R outlets); <a href="#">PDU1230</a> (1U / 2 C19, 16 C13 outlets); <a href="#">PDUV20</a> (0U / 12 5-15/20R outlets); <a href="#">PDU40TDUAL</a> (0U / 40 5-15/20R outlets); <a href="#">PDUV30HV</a> (0U / 6 C19, 32 C13 outlets)
<b>Metered PDU options</b>	<a href="#">PDUMH20</a> (1U / 13 5-15/20R outlets); <a href="#">PDUMH20AT</a> (1U / 16 5-15/20R outlets)*; <a href="#">PDUMV20</a> (0U / 16 5-15/20R outlets); <a href="#">PDUMV40</a> (0U / 32 5-15/20R outlets); <a href="#">PDUMV30HV</a> (0U / 6 C19, 24 C13 outlets)
<b>Switched PDU options</b>	<a href="#">PDUMH20ATNET</a> (1U / 16 5-15/20R outlets)*; <a href="#">PDUMH30HVNET</a> (2U / 16 C13 outlets); <a href="#">PDUMV20NET</a> (0U / 24 5-15/20R outlets); <a href="#">PDUMV30HVNET</a> (0U / 4 C19, 24 C13 outlets)
<b>PDU recommendation notes</b>	All noted PDU options compatible with <a href="#">SUPDM12</a> , <a href="#">SUPDM13</a> or <a href="#">SUPDM16</a> corded backplate (SUPDM12 and <a href="#">SUPDM13</a> offer additional support for L6-20P plug in PDUs)
<b>Output AC waveform (AC mode)</b>	Sine wave
<b>Output AC waveform (battery mode)</b>	Pure Sine wave
<b>INPUT</b>	
<b>Rated input current (at maximum load)</b>	30A
<b>Nominal Input Voltage(s) Supported</b>	208V AC; 240V AC
<b>UPS input connection type</b>	Hardwire
<b>UPS input connection description</b>	3 wire single phase input (L1, L2, G); optional, country-specific backplates SUPDM12 (for 208v nominal), SUPDM14 (for 240v nominal), SUPDM16 (for 208v nominal) add low and high voltage outlets, plus L6-30P input cord
<b>Input circuit breaker</b>	40A double-pole
<b>Recommended Electrical Service</b>	30A 208V or 240V
<b>BATTERY</b>	
<b>Full load runtime (minutes)</b>	8 min. (4200w)
<b>Half load runtime (minutes)</b>	20 min. (2100w)
<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; bundled transformer includes bypass switch to enable hot-swap UPS power module replacement
<b>SURGE / NOISE SUPPRESSION</b>	
<b>UPS AC suppression response time</b>	Instantaneous
<b>EMI / RFI AC noise suppression</b>	Yes
<b>ISOLATION</b>	
<b>Output isolation transformer</b>	120V output includes load isolation transformer protection
<b>PHYSICAL</b>	
<b>Installation form factors supported with included accessories</b>	Tower
<b>Included mounting accessory description</b>	3 sets of adjustable 4 post rack rails included
<b>Installation form factors supported with optional accessories</b>	2 post rackmount (2POSTRMKITHD)
<b>Optional mounting accessory notes</b>	3 sets of <a href="#">2POSTRMKITHD</a> required for 2 post rackmount installation of separate power module, transformer 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>	9U
<b>Secondary form factor</b>	Tower (requires <a href="#">2-9U STAND</a> )
<b>UPS / Power Module weight (lbs)</b>	43.8
<b>UPS / Power Module weight (kg)</b>	19.9
<b>UPS dimensions details</b>	Includes 3U power module, 3U stepdown transformer and 3U battery pack
<b>Stepdown transformer dimensions (height x width x depth / inches)</b>	5.2 x 17.5 x 26
<b>Stepdown transformer dimensions (height x width x depth / cm)</b>	13.3 x 44.4 x 66
<b>Stepdown transformer weight (lbs)</b>	90
<b>Stepdown transformer weight (kg)</b>	40.9
<b>Included battery pack dimensions (height x width x depth / inches)</b>	5.2 x 17.5 x 25
<b>Included battery pack dimensions (height x width x depth / cm)</b>	13.3 x 44.4 x 63.5
<b>Included battery pack weight (lbs)</b>	136.5
<b>Included battery pack weight (kg)</b>	62
<b>Shipping weight (lbs)</b>	380
<b>Shipping weight (kg)</b>	172.5
<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

AC mode BTU / hr. (full load)	1412.3
AC economy mode BTU / hr. (full load)	911.5
Battery mode BTU / hr. (full load)	1586.7
AC economy mode efficiency rating (100% load)	96%
Operating Elevation (ft)	0-3000m (0 to 10,000 ft.)
Audible Noise	53dBA At Front Side 1 Meter
<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
Economy mode operation	Optional economy mode enables high efficiency bypass operation with a maximum output voltage variation of +/-10%. Double conversion mode is automatically restored as mains voltage varies beyond +/-10% with less than 1 millisecond transfer time between modes.
High availability UPS features	Automatic inverter bypass; Manual bypass switch; Hot swappable UPS power module; 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); Tested to IRAM (Argentina); Meets FCC Part 15 Category A (EMI)
<b>WARRANTY</b>	
Product Warranty Period (U.S., Canada & Puerto Rico)	2-year limited warranty
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$250,000 Ultimate Lifetime Insurance

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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=32](http://www.tripplite.com/en/products/model.cfm?txtModelID=32).

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