



**Tripp Lite**  
1111 West 35th Street  
Chicago, IL 60609 USA  
Telephone: +(773) 869 1234  
E-mail: [saleshelp@tripplite.com](mailto:saleshelp@tripplite.com)

## Model #: SU6000RT4UTFHW

### SmartOnline 6kVA On-Line Double-Conversion UPS, 6U Rack/Tower, 208/120V or 240/120V Hardwire output, Transformer Included



#### Highlights

- 6kVA / 6000VA / 5400W on-line double-conversion UPS; 0.9 power factor
- 208/120V or 240/120V 60Hz output; Economy mode option
- 6U Rack/Tower installation; Hot-swappable power and battery modules
- USB, RS232 & EPO ports; SNMP/WEB and contact-closure card options
- Front panel LEDs with detailed LCD monitoring and control screen
- Expandable runtime with optional external battery packs
- Hardwire input (3 wire); NEMA 5-15R, 5-15/20R & Hardwire outputs

#### Description

Tripp Lite SU6000RT4UTFHW 6000VA / 6kVA / 5400 watt on-line, double-conversion UPS system offers complete power protection for critical server, network and telecommunications equipment in a 6U rack/tower compatible configuration. Full-time active power conditioning provides clean, continuous dual-conversion AC output free of voltage fluctuations, power interruptions and line noise. Fault-tolerant auto-bypass prevents unexpected service interruptions during UPS overload or internal fault conditions. Detachable back panel PDU with manual bypass switch supports hot-swappable UPS power module replacement with no interruption to connected equipment. 4U UPS power module and included 2U low-voltage transformer install in only 6 rack spaces total (6U) with a maximum installed depth of only 21.8 in. / 55.3 cm. Maintains full-time sine wave output within 2% of selectable 208/240V and 120V nominal at 60Hz during brownouts as low 100V and overvoltages as high as 300V. Expandable runtime is supported with optional BP192V12-3U external battery packs. Battery independent restart ensures automatic UPS power-up without user interaction after lengthy power outages, even when batteries are expired and require replacement. Double-conversion operation converts raw input from AC to DC, then resynthesizes 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. Highly efficient operation in optional economy mode significantly reduces BTU heat output and operating energy costs. Network-grade AC surge and noise suppression. Supports detailed monitoring of equipment load levels, self-test data and utility power conditions via built-in RS-232 and USB interfaces. Optional SNMP/Web and contact-closure communications card accessories available. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. Included PowerAlert monitoring software offers detailed site power and UPS updates with support for safe auto-shutdown of connected systems as UPS batteries become depleted. Included software packages include PowerAlert Local, PowerAlert Network Shutdown Agent and PowerAlert Network Management System for complete support for a wide variety of application types. Supports Emergency Power Off (EPO) via built-in interface. Front panel LEDs and LCD readout with scroll controls support front-panel visual monitoring of all major UPS for a variety of control options to support advanced UPS settings and configurations. LED / LCD display panel rotates for viewing in rackmount or tower configurations. Hardwire input. Hardwire UPS output, plus 1 L6-30R, 8 5-15/20R and 4 5-15R outlets. External battery packs are field replaceable and hot swappable. \$250,000 connected equipment insurance;

#### Package Includes

- SU6000RT4UHVPM Hot-swappable UPS Power Module
- SUPDMB6KHW Detachable PDU with Maintenance Bypass Switch
- SU6000XFMR2U Low voltage transformer
- PowerAlert Software CD

- 1 x 6-ft. USB Cable
- 1 x 6-ft. Serial Cable
- 4 Post Rackmount Hardware (2 sets)

## Features

- Tripp Lite SU6000RT4UTFHW 6000VA / 6kVA / 5400 watt on-line, double-conversion UPS system in a 6U rack/tower compatible configuration (4U power module plus 2U low-voltage transformer)
- Full-time active power conditioning maintains clean, continuous dual-conversion AC output free of voltage fluctuations, power interruptions and line noise
- Fault tolerant electronic bypass maintains utility output during a variety of UPS fault conditions
- Detachable back panel PDU contains input line cord connection, output receptacles and manual bypass switch to support hot-swappable whole UPS replacement with no interruption to connected equipment
- Hardwire input (208/240V L1, L2 + G)
- Hardwire high and low voltage output, plus 8 5-15/20R and 4 5-15R 120V outlets
- Included rail kit supports 4U 19 inch rackmount installation in 4 post racks
- Optional 2POSTRMKITHD supports installation in 2 post 19 inch racks (2 required for SU6000RT4UTFHW)
- Optional 2-9USTAND supports upright tower placement (1 required for SU6000RT4UTFHW)
- Maximum installed rack depth of only 21.8 in. / 55.3 cm
- Maintains full-time sine wave output within 2% of selected 208/240V and 120V nominal at 60Hz in double conversion mode
- Corrects brownouts to 156V at full load (100V at 50% load or less)
- Corrects overvoltages to 290V at full load (300V at 90% load or less)
- Double-conversion operation offers full-time AC to DC, then DC to AC conversion to maintain perfectly regulated 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
- High efficiency ECONOMY MODE operation significantly reduces BTU heat output and operating energy costs
- Network-grade AC surge and noise suppression
- Supports detailed monitoring of equipment load levels, self-test data and utility power conditions via built-in RS-232, USB and optional SNMP card slot interfaces
- UPS card slot supports one card-based network interface option (part # SNMPWEBCARD) or dry-contact monitoring accessory (part # RELAYIOCARD)
- 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
- Optional RELAYIOMINI interface module offers three configurable hard contact closure outputs for custom event notification (requires removal of USB interface module)
- HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X
- 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
- Front panel LEDs and LCD readout with scroll controls support front-panel visual monitoring of all major UPS functions with support for a variety of control options to support advanced UPS settings and configurations
- LED/LCD display panel rotates for viewing in rackmount or tower configurations
- Supports Emergency Power Off (EPO) via built-in interface
- Battery independent restart ensures automatic UPS power-up without userinteraction after lengthy power outages, even when batteries areexpired and require replacement
- BP192V12-3U external battery packs are field replaceable and hot swappable
- Some external battery configurations require the use of Tripp Lite's [External Battery Configuration Software](#) (see manual)
- \$250,000 connected equipment insurance;

## Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	6000
Output kVA capacity (kVA)	6.0
Output Watt Capacity (watts)	5400

Output kW capacity	5.4
Output power factor	0.9
Crest Factor	3:1
Nominal Output Voltage(s) Supported	120V; 208V; 240V
Frequency compatibility	60 Hz
Frequency compatibility details	Output frequency regulation +/- 0.05Hz (free running)
Output voltage regulation (line mode)	+/- 2%
Output voltage regulation (Economy line mode)	+/- 10%
Output voltage regulation (Battery mode)	+/- 2%
Built-in UPS output receptacles	4 5-15R outlet(s); 8 5-15/20R outlet(s); 1 L6-30R outlet(s); Hardwire
Output receptacle details	Hardwire input and output connections are mounted on a detachable PDU backplate with bypass switch to enable hot-swappable power module replacement
Output circuit breaker	Low voltage 20A breakers on the transformer module protect 4 5-15/20R outlets each; Low voltage 15A breakers protect 2 5-15/20R outlets each
Output AC waveform (AC mode)	Pure Sine wave
Output AC waveform (battery mode)	Pure Sine wave
<b>INPUT</b>	
Rated input current (at maximum load)	31.9A (200V), 30.6A (208V), 29A (220V), 27.7A (230V), 26.6A (240V)
Nominal Input Voltage(s) Supported	208V AC; 240V AC
Nominal input voltage description	Factory configured to 208V
UPS input connection type	Hardwire
Recommended Electrical Service	40A (200/208v); 30A (220/230/240v)
Phase	Single-Phase
<b>BATTERY</b>	
Full load runtime (minutes)	2 minutes (5400 watts)
Half load runtime (minutes)	8.5 minutes (2700 watts)
Expandable battery runtime	Runtime is expandable with external battery packs

External battery pack compatibility	<a href="#">BP192V12-3U</a>
DC system voltage (VDC)	192
Battery recharge rate (included batteries)	6 hours from 10% to 90% (internal batteries)
Replacement battery cartridge (internal UPS battery replacement)	<a href="#">RBC5-192</a>
Battery Access	Front panel battery access door
Battery replacement description	Hot-swappable, user replaceable internal batteries
<b>VOLTAGE REGULATION</b>	
Voltage regulation description	Online, double-conversion power conditioning
Overvoltage correction	Corrects overvoltages as high as 300V (
Undervoltage correction	Corrects undervoltages as low as 100 (
<b>LEDS ALARMS &amp; SWITCHES</b>	
LED Indicators	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
Alarms	Unique audible alarms for all major UPS, environmental and power conditions (see manual)
Alarm cancel operation	Alarm cancel switch
Switches	Includes main power off/on switch, plus 2 switches to set and execute scrollable LCD functions. A manual bypass switch featured on the detachable PDU allows for complete removal of the UPS during routine maintenance without disrupting power to connected loads
<b>SURGE / NOISE SUPPRESSION</b>	
UPS AC suppression response time	Instantaneous
EMI / RFI AC noise suppression	Yes
<b>PHYSICAL</b>	
Installation form factors supported with included accessories	4 post 19 inch rackmount (mounting rail kit included)
Installation form factors supported with optional accessories	2 post rackmount (2POSTRMKITHD); Tower (2-9USTAND)
Primary form factor	Rackmount
UPS / Power Module dimensions in primary form factor (height x width x depth / inches)	6.85 x 17.5 x 20.7

<b>UPS / Power Module dimensions in primary form factor (height x width x depth / cm)</b>	17.4 x 44.5 x 52.6
<b>Installed whole system maximum rack depth (inches)</b>	21.8
<b>Installed whole system maximum rack depth (cm)</b>	55.4
<b>Rack Height</b>	6U
<b>Secondary form factor</b>	Tower
<b>UPS / Power Module weight (lbs)</b>	116.2
<b>UPS / Power Module weight (kg)</b>	52.8
<b>Stepdown transformer dimensions (height x width x depth / inches)</b>	3.5 x 17.5 x 21.8
<b>Stepdown transformer dimensions (height x width x depth / cm)</b>	8.8 x 44.5 x 55.4
<b>Stepdown transformer weight (lbs)</b>	72.6
<b>Stepdown transformer weight (kg)</b>	33
<b>UPS Shipping dimensions (height x width x depth / inches)</b>	22.2 x 23.6 x 29.1
<b>UPS Shipping dimensions (height x width x depth / cm)</b>	56.4 x 59.9 x 73.9
<b>Shipping weight (lbs)</b>	232.1
<b>Shipping weight (kg)</b>	105.4
<b>Cooling method</b>	Fans
<b>UPS housing material</b>	Steel
<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>	1767

AC economy mode BTU / hr. (full load)	765
Battery mode BTU / hr. (full load)	1784
AC economy mode efficiency rating (100% load)	96%
Operating Elevation (ft.)	0-3000m (0 to 10,000 ft.)
Audible Noise	60 dBA at front side 1 meter
Operating Elevation (m)	0-3000 m
<b>COMMUNICATIONS</b>	
Communications interface	USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface
Network monitoring port description	Additional contact closure support with optional RELAYIOCARD and RELAYIOMINI interface cards. RELAYIOMINI installation requires removal of panel containing USB ports
PowerAlert software	Included
Communications cable	USB, DB9 serial and EPO cables included
WatchDog compatibility	Yes
<b>LINE / BATTERY TRANSFER</b>	
Transfer time	No transfer time (0 ms.) in online, double-conversion mode
Low voltage transfer to battery power (setpoint)	156V (full load) / 100V (50% load or less, derates linearly)
High voltage transfer to battery power (setpoint)	280V (full load) / 300V (90% load or less)
<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; Manual bypass switch; Detachable hot-swap PDU; Hot swappable UPS power module; Hot swappable batteries
Green & high efficiency features	High efficiency economy mode operation; Support for daily startup and shutoff; Schedulable daily hours of economy mode operation
<b>CERTIFICATIONS</b>	
UPS Certifications	Tested to UL1778 (USA); Tested to CSA (Canada); Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances)
UPS Certification details	IEC 61000-4-5 1995 B Surge Immunity
<b>WARRANTY</b>	
Product Warranty Period (Worldwide)	2-year limited warranty

Connected  
Equipment Insurance  
(U.S., Canada &  
Puerto Rico)

\$250,000 [Ultimate Lifetime Insurance](#)

## Related Items

### Optional Products

Related Model	Description	Qty.
<a href="#">RELAYIOMINI</a>	3 Relay I/O Mini-module	1
<a href="#">BP192V12-3U</a>	BP192V12-3U - External Battery Pack for UPS System	1
<a href="#">2POSTRMKITHD</a>	Enables 2-Post Rackmount Installation of 3U and Larger UPS, Transformer and Battery Pack Components	2
<a href="#">SNMPWEBCARD</a>	For remote monitoring and control via SNMP, Web, or Telnet.	1
<a href="#">ENVIROSENSE</a>	Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.)	1
<a href="#">RELAYIOCARD</a>	Programmable Relay I/O Card	1
<a href="#">AS400CABLEKIT2</a>	Power Management Tools - UPS Communication Cable Kit for System i / AS400 / iSeries Servers	1
<a href="#">WEXT3-SU6000</a>	3-Year Extended Warranty - For SU6000 models	1
<a href="#">WEXT5-SU6000</a>	5-Year Extended Warranty - For SU6000 models	1
<a href="#">2-9USTAND</a>	Enables Tower Placement of Rackmount UPS Systems	1

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=4530](http://www.tripplite.com/en/products/model.cfm?txtModelID=4530).

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