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## Model #: SU6000RT4UTFHW

### SmartOnline EZ-series UPS System -High efficiency, Hot-swappable, On-line, double-conversion

#### Highlights



- 6kVA / 6000VA / 5400 watt on-line double-conversion extended-run 4U rack/tower UPS system with included 2U low voltage transformer
- Selectable 208/240 plus 120V nominal output with 2% voltage regulation
- Detachable back panel PDU with manual bypass switch enables hot-swappable whole-UPS replacement
- Zero transfer time, double-conversion and high-efficiency economy-mode operation supported
- Built-in USB, RS232 and EPO ports, plus support for SNMP/Web and contact-closure accessory card options
- Front panel LEDs and LCD display with scroll-buttons offer detailed UPS and power status information
- Expandable runtime with optional BP192V12-3U external battery packs
- Hardwire input / Hardwire high and low voltage output, plus L6-30R, 5-15/20R and 5-15R output receptacles

#### Description

Tripp Lite EZ-series 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 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. 2 year warranty and \$250,000 connected equipment insurance; extended warranty and service contracts available.

## Features

- Tripp Lite EZ-series 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 auto-bypass prevents unexpected service interruptions during UPS overload or 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 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 user interaction after lengthy power outages, even when batteries are expired and require replacement
- BP192V12-3U external battery packs are field replaceable and hot swappable
- 2-year warranty and \$250,000 connected equipment insurance; extended warranty and service contracts available

## 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

<b>Crest Factor</b>	3:1
<b>Nominal Output Voltage(s) Supported</b>	120V; 208V; 240V
<b>Frequency compatibility</b>	60 Hz
<b>Output voltage regulation (line mode)</b>	+/- 2%
<b>Output voltage regulation (Economy line mode)</b>	+/- 10%
<b>Output voltage regulation (Battery mode)</b>	+/- 2%
<b>Built-in UPS output receptacles</b>	4 5-15R outlet(s); 8 5-15/20R outlet(s); 1 L6-30R outlet(s); Hardwire
<b>Output receptacle details</b>	Hardwire input and output connections are mounted on a detachable PDU backplate with bypass switch to enable hot-swappable power module replacement
<b>Output circuit breaker</b>	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
<b>Basic PDU options</b>	<a href="#">PDU1215</a> (1U / 13 5-15R outlets); <a href="#">PDU1220</a> (1U / 13 5-15/20R outlets); <a href="#">PDU1415</a> (0U / 14 5-15R outlets); <a href="#">PDUV15</a> (0U / 12 5-15R 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="#">PDUMH15</a> (1U / 13 5-15R outlets); <a href="#">PDUMH15AT</a> (1U / 8 5-15R outlets)*; <a href="#">PDUMH20</a> (1U / 13 5-15/20R outlets); <a href="#">PDUMH20AT</a> (1U / 16 5-15/20R outlets)*; <a href="#">PDUMV15</a> (0U / 16 5-15R 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>Monitored PDU options</b>	PDUMNV15 (0U / 16 5-15R outlets); PDUMNV20 (0U / 24 5-15/20R outlets); PDUMNV30HV (0U / 4 C19, 20 C13 outlets); PDUMNH15 (1U / 8 5-15R outlets); PDUMNH20 (1U / 16 5-15/20R outlets)
<b>Switched PDU options</b>	<a href="#">PDUMH15ATNET</a> (1U / 8 5-15R outlets)*; <a href="#">PDUMH20ATNET</a> (1U / 16 5-15/20R outlets)*; <a href="#">PDUMH30HVNET</a> (2U / 16 C13 outlets); <a href="#">PDUMV15NET</a> (0U / 16 5-15R 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>	* <a href="#">PDUMH15AT</a> , <a href="#">PDUMH15ATNET</a> , <a href="#">PDUMH20AT</a> and <a href="#">PDUMH20ATNET</a> support Auto Transfer Switching
<b>Output AC waveform (AC mode)</b>	Pure Sine wave
<b>Output AC waveform (battery mode)</b>	Pure Sine wave
<b>INPUT</b>	
<b>Rated input current (at maximum load)</b>	31.9A (200V), 30.6A (208V), 29A (220V), 27.7A (230V), 26.6A (240V)
<b>Nominal Input Voltage(s) Supported</b>	208V AC; 240V AC
<b>Nominal input voltage description</b>	Factory configured to 208V
<b>UPS input connection type</b>	Hardwire
<b>BATTERY</b>	
<b>Full load runtime (minutes)</b>	2 minutes (5400 watts)

<b>Half load runtime (minutes)</b>	8.5 minutes (2700 watts)
<b>Expandable battery runtime</b>	Runtime is expandable with external battery packs
<b>External battery pack compatibility</b>	<a href="#">BP192V12-3U</a>
<b>DC system voltage (VDC)</b>	192
<b>Battery recharge rate (included batteries)</b>	6 hours from 10% to 90% (internal batteries)
<b>Replacement battery cartridge (internal UPS battery replacement)</b>	<a href="#">RBC5-192</a>
<b>Battery Access</b>	Front panel battery access door
<b>Battery replacement description</b>	Hot-swappable, user replaceable internal batteries
<b>VOLTAGE REGULATION</b>	
<b>Voltage regulation description</b>	Online, double-conversion power conditioning
<b>Overvoltage correction</b>	Corrects overvoltages as high as 300V (
<b>Undervoltage correction</b>	Corrects undervoltages as low as 100 (
<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>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>	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>	
<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 kit included)
<b>Installation form factors supported with optional accessories</b>	2 post rackmount (2POSTRMKITHD); Tower (2-9USTAND)
<b>Primary form factor</b>	Rackmount

<b>UPS / Power Module dimensions in primary form factor (height x width x depth / inches)</b>	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>Installed whole system total rack space height (rack spaces)</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>UPS housing material</b>	Steel
<b>Cooling method</b>	Fans
<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
<b>AC economy mode BTU / hr. (full load)</b>	765
<b>Battery mode BTU / hr. (full load)</b>	1784
<b>AC economy mode efficiency rating (100% load)</b>	96%
<b>Operating Elevation (ft)</b>	0-3000m (0 to 10,000 ft.)
<b>Audible Noise</b>	60 dBA at front side 1 meter
<b>COMMUNICATIONS</b>	
<b>Communications interface</b>	USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface
<b>Network monitoring port description</b>	Additional contact closure support with optional RELAYIOCARD and RELAYIOMINI interface cards. RELAYIOMINI installation requires removal of panel containing USB ports
<b>PowerAlert software</b>	Included
<b>Communications cable</b>	USB, DB9 serial and EPO cables included
<b>WatchDog compatibility</b>	Yes
<b>LINE / BATTERY TRANSFER</b>	
<b>Transfer time</b>	No transfer time (0 ms.) in online, double-conversion mode
<b>Low voltage transfer to battery power (setpoint)</b>	156V (full load) / 100V (50% load or less, derates linearly)
<b>High voltage transfer to battery power (setpoint)</b>	280V (full load) / 300V (90% load or less)
<b>SPECIAL FEATURES</b>	
<b>Cold Start (startup in battery mode during a power failure)</b>	Cold-start operation supported
<b>High availability UPS features</b>	Automatic inverter bypass; Manual bypass switch; Detachable hot-swap PDU; Hot swappable UPS power module; Hot swappable batteries
<b>Green &amp; high efficiency features</b>	High efficiency economy mode operation; Support for daily startup and shutoff; Schedulable daily hours of economy mode operation
<b>CERTIFICATIONS</b>	
<b>UPS Certifications</b>	Tested to UL1778 (USA); Tested to CSA (Canada); Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances)
<b>UPS Certification details</b>	IEC 61000-4-5 1995 B Surge Immunity

**WARRANTY****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.
UPS Accessories	<a href="#">RELAYIOMINI</a>	3 Relay I/O Mini-module	-
External Battery Packs	<a href="#">BP192V12-3U</a>	BP192V12-3U - External Battery Pack for UPS System	-
Rackmount/Wallmount Kits	<a href="#">2POSTRMKITHD</a>	Enables 2-Post Rackmount Installation of 3U and Larger UPS, Transformer and Battery Pack Components	2
SNMP Accessories	<a href="#">SNMPWEBCARD</a>	For remote monitoring and control via SNMP, Web, or Telnet.	-
Environmental Monitoring	<a href="#">ENVIROSENSE</a>	Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.)	-
SNMP Accessories	<a href="#">RELAYIOCARD</a>	Programmable Relay I/O Card	-
Extended Warranties	<a href="#">WEXT3-SU6000</a>	3-Year Extended Warranty - For SU6000 models	-
Extended Warranties	<a href="#">WEXT5-SU6000</a>	5-Year Extended Warranty - For SU6000 models	-
Tower Stands	<a href="#">2-9USTAND</a>	Enables Tower Placement of Rackmount UPS Systems	-

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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