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SmartOnline 208/240 & 120V 6kVA 5.4kW Double-Conversion UPS, 6U Rack/Tower, Extended Run, Network Card Options, USB, DB9 Serial, Bypass Switch, Hardwire

MODEL NUMBER: **SU6000RT4UTFHW**



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 network management card options. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. PowerAlert monitoring software offers detailed site power and UPS updates with support for safe auto-shutdown of connected systems as UPS batteries become depleted. 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

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; Network management 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

Package Includes

- SU6000RT4UHVPM Hot-swappable UPS Power Module
- SUPDMB6KHW Detachable PDU with Maintenance Bypass Switch
- SU6000XFMR2U Low voltage transformer
- 1 x 6-ft. USB Cable
- 1 x 6-ft. Serial Cable
- 4 Post Rackmount Hardware (2 sets)

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 Ultimate Lifetime Insurance (U.S., Canada, and Puerto Rico only)

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
- Compatible with Tripp Lite UPS management card options TLNETCARD, WEBCARDLX, SNMPWEBCARD, MODBUSCARD and RELAYIOCARD
- 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
- USB & Serial ports enable data-saving unattended shutdown when used with Tripp Lite's PowerAlert software, available via FREE download from www.tripplite.com/poweralert



- 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
- Intelligent battery management system with temperature-compensated charging extends battery life
- Some external battery configurations require the use of Tripp Lite's External Battery Configuration Software (see manual)
- \$250,000 Ultimate Lifetime Insurance (U.S., Canada, and Puerto Rico only)

Specifications

OVERVIEW	
UPC Code	037332157225
OUTPUT	
Output Volt Amp Capacity (VA)	6000
Output kVA Capacity (kVA)	6.0
Output Watt Capacity (Watts)	5400
Output kW Capacity (kW)	5.4
Output Capacity Details	Supports up to 105% load continuously in double conversion mode, 106 to 125% for 1 minute, 126% to 150% for 30 seconds; Loads over 150% trigger immediate bypass mode operation to support loads directly from mains power; Double conversion mode is automatically restored as the overload is cleared
Power Factor	0.9
Crest Factor	3:1
Nominal Output Voltage(s) Supported	120V; 208V; 240V
Nominal Voltage Details	This configuration requires the Power Module be set to 208 or 240V output voltage; included step-down transformer supports 120V output (when the voltage-selection switch on the transformer module is set to match the 208 or 240V power module setting)
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%



Output Receptacles	(4) 5-15R; (8) 5-15/20R; (1) L6-30R; 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 Breakers	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
INPUT	
Rated input current (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
UPS Input Connection Description	3 wire single phase input (L1, L2, G)
Recommended Electrical Service	40A (200/208v); 30A (220/230/240v)
Input Phase	Single-Phase
BATTERY	
Full Load Runtime (min.)	2 minutes (5400 watts)
Half Load Runtime (min.)	8.5 minutes (2700 watts)
Expandable Battery Runtime	Runtime is expandable with external battery packs
External Battery Pack Compatibility	BP192V1037C-1PH; BP192V12-3U; BP192V1407C-1PH; BP192V557C-1PH; BP192V787C-1PH; BP192V5RT2U </td></tr><tr><td>DC System Voltage (VDC)</td><td>192</td></tr><tr><td>Battery Recharge Rate (Included Batteries)</td><td>6 hours from 10% to 90% (typical, full load discharge)</td></tr><tr><td>Internal UPS Replacement Battery Cartridge</td><td> RBC5-192 </td></tr><tr><td>Battery Access</td><td>Front panel battery access door</td></tr><tr><td>Battery Replacement Description</td><td>Hot-swappable, user replaceable internal batteries</td></tr><tr><td>Expandable Runtime</td><td>Yes</td></tr><tr><td colspan="2">VOLTAGE REGULATION</td></tr><tr><td>Voltage Regulation Description</td><td>Online, double-conversion power conditioning</td></tr><tr><td>Overvoltage Correction</td><td>Corrects overvoltages as high as 300V (<90% load) and 280V (full load)</td></tr><tr><td>Undervoltage Correction</td><td>Corrects undervoltages as low as 100 (<50% load) and 155V (full load); derates linearly</td></tr><tr><td colspan="2">USER INTERFACE, ALERTS & CONTROLS</td></tr></table>



Front Panel LCD Display	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)
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
Alarm Cancel Operation	Alarm cancel switch
Audible Alarm	Unique audible alarms for all major UPS, environmental and power conditions (see manual)
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
SURGE / NOISE SUPPRESSION	
UPS AC Suppression Response Time	Instantaneous
EMI / RFI AC Noise Suppression	Yes
PHYSICAL	
Included Mounting Accessory Description	4 post rackmount installation accessories included (2 sets)
Installation Form Factors Supported with Optional Accessories	2 post rackmount (2POSTRMKITHD); Tower (2-9USTAND)
Optional Mounting Accessory Notes	2 sets of 2-Post-Rack-Mount-Installation-Kit-3U-Larger-UPS-Transformer-Battery-Pack-Components~2POSTRMKITHD ; required for 2 post rackmount installation of separate UPS and transformer components
Primary Form Factor	Rackmount
UPS Power Module Dimensions (hwd, in.)	6.85 x 17.5 x 20.7
UPS Power Module Dimensions (hwd, cm)	17.40 x 44.45 x 52.58
Rack Height (U Spaces)	6
Maximum Device Depth (in.)	21.8
Maximum Device Depth (cm)	55.37
Minimum Required Rack Depth without External Battery Pack (cm)	65
Minimum Required Rack Depth with External Battery Pack (cm)	73
Minimum Required Rack Depth without External Battery Pack (in.)	25.7
Minimum Required Rack Depth with External Battery Pack (in.)	28.7
UPS Power Module Weight (lbs.)	116.2
UPS Power Module Weight (kg)	52.71
Stepdown Transformer Dimensions (hwd / in.)	3.5 x 17.5 x 21.8
Stepdown Transformer Dimensions (hwd / cm)	8.89 x 44.45 x 55.37



Stepdown Transformer Weight (lbs.)	72.6
Stepdown Transformer Weight (kg)	32.93
Shipping Dimensions (hwd / in.)	22.200 x 23.600 x 29.100
Shipping Dimensions (hwd / cm)	56.39 x 59.94 x 73.91
Shipping Weight (lbs.)	232.1000
Shipping Weight (kg)	105.28
Cooling Method	Fans
UPS Housing Material	Steel
Maximum Device Depth (mm)	554
Stepdown Transformer Height (mm)	89
Stepdown Transformer Width (mm)	445
Stepdown Transformer Depth (mm)	554
Primary UPS Height (mm)	174
Primary UPS Width (mm)	445
Primary UPS Depth (mm)	526
ENVIRONMENTAL	
Operating Temperature Range	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius
Storage Temperature Range	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius
Relative Humidity	0 to 95%, non-condensing
AC Mode BTU / Hr. (Full Load)	1767
AC Economy Mode BTU / Hr. (Full Load)	768
Battery Mode BTU / Hr. (Full Load)	2279
AC Mode Efficiency Rating (100% Load)	90%
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
COMMUNICATIONS	
Communications Interface	USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface
Network Management Cards	SNMPWEBCARD; TLNETCARD; WEBCARDLX; MODBUSCARD; RELAYIOCARD
Network Monitoring Port Description	Additional contact closure support with optional RELAYIOCARD and RELAYIOMINI interface cards. RELAYIOMINI installation requires removal of panel containing USB ports



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PowerAlert Software	For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert
Communications Cable	USB, DB9 serial and EPO cables included
WatchDog Compatibility	Yes
LINE / BATTERY TRANSFER	
Transfer Time	No transfer time (0 ms.) in online, double-conversion mode
Transfer Time (Economy Mode)	8ms. typical power failure response in optional economy 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)
SPECIAL FEATURES	
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Automatic inverter bypass; Hot swappable batteries; Hot swappable UPS power module; Manual bypass switch
Green Energy-Saving Features	High efficiency economy mode operation; Support for daily startup and shutoff; Schedulable daily hours of economy mode operation
CERTIFICATIONS	
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
WARRANTY	
Product Warranty Period (Worldwide)	2-year limited warranty
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$250,000 Ultimate Lifetime Insurance

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