



Model #: SU5000RT4UHV

SmartOnline 5kVA On-Line Double-Conversion UPS, Economy-Mode, Extended-Run & SNMP card options, 4U Rack/Tower, 200-240V, NEMA outlets

Highlights



- 5kVA / 5000VA / 4500 watt on-line double-conversion extended-run 4U all-in-one rack/tower UPS
- Selectable 200/208/220/230/240V nominal voltage with 2% output voltage regulation at 50/60Hz with support for frequency conversion
- 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
- L6-30P input plug / L6-30R and L6-20R output receptacles
- \$250,000 Ultimate Lifetime Insurance (USA, Puerto Rico & Canada only)

Description

Tripp Lite SU5000RT4UHV 5000VA / 5kVA / 4500 watt on-line, double-conversion UPS system offers complete power protection for critical server, network and telecommunications equipment in a single 4U rack/tower compatible housing. 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. Single all-in-one rack / tower housing installs in only 4 rack spaces (4U) with a maximum installed depth of only 20.7 in. / 52.6 cm. Maintains full-time sine wave output within 2% of selectable 200/208/220/230/240V 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. L6-30P input, plus two L6-30R and two L6-20R 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 SU5000RT4UHV 5000VA / 5kVA / 4500 watt on-line, double-conversion UPS system in a single 4U rack/tower compatible housing
- 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
- L6-30P input plug; 2 L6-30R and 2 L6-20R UPS supported outlets
- Included rail kit supports 4U 19 inch rackmount installation in 4 post racks
- Optional 2POSTRMKITHD supports installation in 2 post 19 inch racks (1 required for SU5000RT4UHV)
- Optional 2-9USTAND supports upright tower placement (1 required for SU5000RT4UHV)
- Maximum installed rack depth of only 20.7 in. / 52.6cm inches
- Maintains full-time sine wave output within 2% of selected 200/208/220/230/240V 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)
- Supports 50/60Hz operation for worldwide frequency compatibility
- 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
- Frequency conversion mode enables conversion of 60Hz to 50Hz or 50Hz to 60Hz (no de-rating)
- 2-year warranty and \$250,000 connected equipment insurance; extended warranty and service contracts available

Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	5000
Output kVA capacity (kVA)	5.0
Output Watt Capacity (watts)	4500
Output kW capacity	4.5
Output power factor	0.9
Crest Factor	3:1

Nominal Output Voltage(s) Supported	200V; 208V; 220V; 230V; 240V
Frequency compatibility	50/60 Hz (auto-selectable)
Frequency compatibility details	Output frequency matches input nominal on startup; Frequency conversion mode enables conversion of 60Hz to 50Hz or 50Hz to 60Hz (no de-rating)
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)
Output circuit breaker	20A breaker protects L6-20R outlets, L6-30R outlets are unbreakered
Basic PDU options	PDU1230 (1U / 2 C19, 16 C13 outlets); PDUNV (1U / 2 C19, 12 C13 outlets); PDUV30HV (0U / 6 C19, 32 C13 outlets)
Metered PDU options	PDUMV20HV (0U / 6 C19, 32 C13 outlets); PDUMV30HV (0U / 6 C19, 24 C13 outlets)
Monitored PDU options	PDUMNV20HV (0U / 4 C19, 20 C13 outlets); PDUMNV30HV (0U / 4 C19, 20 C13 outlets)
Switched PDU options	PDUMH20HVNET (1U / 8 C13 outlets); PDUMH30HVNET (2U / 16 C13 outlets); PDUMV20HVNET (0U / 4 C19, 24 C13 outlets); PDUMV30HVNET (0U / 4 C19, 24 C13 outlets)
Output AC waveform (AC mode)	Pure Sine wave
Output AC waveform (battery mode)	Pure Sine wave
INPUT	
Rated input current (at maximum load)	24A (200V), 24A (208V), 23.6A (220V), 23A (230V), 21.7A (240V)
Nominal Input Voltage(s) Supported	200V AC; 208V AC; 220V AC; 230V AC; 240V AC
Nominal input voltage description	Factory configured to 208V
UPS input connection type	L6-30P
UPS Input cord length (ft.)	10
UPS Input cord length (m)	3
Recommended Electrical Service	30A
BATTERY	
Full load runtime (minutes)	3.5 minutes (4500 watts)
Half load runtime (minutes)	11 minutes (2250 watts)

Expandable battery runtime	Supports extended runtime with optional external battery packs
External battery pack compatibility	BP192V12-3U
DC system voltage (VDC)	192
Battery recharge rate (included batteries)	6 hours (from 10% to 90%)
Replacement battery cartridge (internal UPS battery replacement)	RBC5-192 (qty 1)
Battery Access	Front panel battery access
Battery replacement description	Hot-swappable, user replaceable batteries
VOLTAGE REGULATION	
Voltage regulation description	Online, double-conversion power conditioning
Overvoltage correction	2% output voltage regulation during overvoltages to 280V (full load) / 300V (90% load or less)
Undervoltage correction	2% output voltage regulation during undervoltages to 156V (full load) / 100V (50% load or less)
LEDS ALARMS & SWITCHES	
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
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)
Alarms	Unique audible alarms for all major UPS, environmental and power conditions (see manual)
Alarm cancel operation	Alarm cancel switch
Switches	2 Switches control off/on power status and alarm-cancel/self-test operation; 2 additional switches support set and execute scrolling LCD functions
SURGE / NOISE SUPPRESSION	
UPS AC suppression response time	Instantaneous
EMI / RFI AC noise suppression	Yes
PHYSICAL	
Installation form factors supported with included accessories	4 post 19 inch rackmount (mounting kit included)
Installation form factors supported with optional accessories	2 post rackmount (2POSTRMKITWM); 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

UPS / Power Module dimensions in primary form factor (height x width x depth / cm)	17.4 x 44.5 x 52.6
Installed whole system total rack space height (rack spaces)	4U
Secondary form factor	Tower (requires 2-9U STAND)
UPS / Power Module weight (lbs)	113.6
UPS / Power Module weight (kg)	51.6
UPS Shipping dimensions (height x width x depth / inches)	12.7 x 23.6 x 29.1
UPS Shipping dimensions (height x width x depth / cm)	32.3 x 60 x 73.9
Shipping weight (lbs)	151.8
Shipping weight (kg)	68.9
UPS housing material	Steel
Cooling method	Fan
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	5% to 90% (non-condensing)
AC mode BTU / hr. (full load)	1767
AC economy mode BTU / hr. (full load)	638
Battery mode BTU / hr. (full load)	1767
AC economy mode efficiency rating (100% load)	96%
Operating Elevation (ft)	0 to 6560 ft. / 0 to 2000 m
Audible Noise	65 dB at 1m front side
COMMUNICATIONS	
Communications interface	USB (HID enabled); DB9 Serial; Contact closure; EPO (emergency power off); Slot for SNMP/Web interface
Network monitoring port description	Two contact closure monitoring options available - RELAYIOCARD with six configurable contact closure outputs (uses UPS card slot) and RELAYIOMINI with 3 configurable contact closure outputs (requires removal of USB port module)
PowerAlert software	Included

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)	8 ms. 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
Green & high efficiency 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 (U.S., Canada & Puerto Rico)	2-year limited warranty
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$250,000 Ultimate Lifetime Insurance

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=4533.

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