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Model #: SU6000RT3UHV

SmartOnline Expandable Rack / Tower UPS System - Online, double-conversion protection for mission critical applications

Highlights



- 6000VA online 6U rack / tower UPS (3U Power Module + 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 200, 208, 220, 230 or 240V 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 6kVA Smart Online RM UPS - 6000VA. The Smart Online SU6000RT3UHV 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 and battery pack occupy only 3 rack spaces each (6U 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 200/208/220/230/240V 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. Highly efficient operation in optional economy mode setting, saving BTU heat output and energy costs. Hardwire input and output connections support a variety of permanent or PDU style power connections. Battery support can be extended through the addition of external battery packs. Includes slot for internal SNMP/WEB card, 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

- SU6000RT3UHV system includes 1 3U power module and 1 3U battery pack
- PowerAlert UPS management software and complete cabling
- Mounting hardware to support each 3U module in 4 post rack enclosures/tower stands
- Warranty information
- Instruction manual

Features

- True on-line, double conversion UPS provides pure, sine wave AC output at all times
- World-wide compatibility with Euro 50Hz and High Voltage North American 60Hz power
- Maintains continuous operation through blackouts, voltage fluctuations and surges with zero transfer time
- Removes harmonic distortion, electrical impulses, frequency variations and other hard to solve power problems
- 6000VA/4200 watt power capacity with hardwire input/output connections
- Accepts input voltages between 156 and 276, regulating output within 2% of selectable 200/208/220/230/240v AC output
- 60 minutes runtime at half load (2700W) based on adding 1 BP240V10RT3U battery pack and 8 minutes at full load (4200W)

- Expandable runtime with multiple external battery packs
- Innovative design makes unit adaptable for rackmount, tower, or stacking applications
- Power module and battery pack require only 3 rack spaces each (6U total rack space usage)
- DB9 serial port for network interface; SNMP compatible
- Slot for optional SNMP/web card (part# SNMPWEBCARD)
- PowerAlert unattended shutdown software and 6 ft. network cable included
- Fault tolerant auto-bypass maintains continuous utility output to connected equipment, even in cases where the UPS is overloaded or suffers an internal failure that requires service
- Diagnostic LEDs
- Mounting hardware included with each 3U module for 4 post rackmount installation, 2 post telecom rack compatible with separate purchase 2POSTRMKITWM (2 required)
- Includes RJ11 EPO (emergency power off) port and interconnection cable
- \$250,000 Ultimate Lifetime [connected equipment insurance](#) (USA , Puerto Rico, & Canada Only)
- 2 year manufacturers product warranty

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	200V; 208V; 220V; 230V; 240V
Nominal Voltage details	Voltage selection via front panel LCD interface
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%
Built-in UPS output receptacles	Hardwire
Output receptacle backplate options	Optional SUPDM11 backplate adds 2 L6-30R outlets and L6-30P input cord
Output circuit breaker	40A double-pole
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	PDUMV30HV (0U / 6 C19, 24 C13 outlets)
Switched PDU options	PDUMH30HVNET (2U / 16 C13 outlets); PDUMV30HVNET (0U / 4 C19, 24 C13 outlets)
PDU recommendation notes	All noted PDU options require SUPDM11 corded backplate
Output AC waveform (AC mode)	Sine wave
Output AC waveform (battery mode)	Sine wave
INPUT	
Rated input current (at maximum load)	30A
Nominal Input Voltage(s) Supported	200V AC; 208V AC; 220V AC; 230V AC; 240V AC
UPS input connection type	Hardwire
UPS input connection description	3 wire single phase input (L1, L2, G); optional, country-specific SUPDM11 backplate adds 2 L6-30R outlets and L6-30P input cord
Input circuit breaker	40A double-pole
Recommended Electrical Service	30A 208/220/230/240V
BATTERY	
Full load runtime (minutes)	8 min. (4200w)
Half load runtime (minutes)	60 min. (2700w) (runtime based on adding 1 x BP240V10RT3U)
Expandable battery runtime	Supports extended runtime with optional external battery packs
External battery pack compatibility	BP240V10RT3U ; BP240V557C-1PH ; BP240V787C-1PH ; BP240V1037C-1PH ; BP240V1407C-1PH
DC system voltage (VDC)	240
Battery recharge rate (included batteries)	Less than 6 hours from 10% to 80%
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 276
Undervoltage correction	2% output voltage regulation during undervoltages to 156
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 joule rating	480
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 rail kit included); Tower
Included mounting accessory description	2 sets of adjustable 4 post rack rails included
Installation form factors supported with optional accessories	2 post rackmount (2POSTRMKITWM)
Optional mounting accessory notes	2 sets of 2POSTRMKITWM required for 2 post rackmount installation of separate power module and battery pack
Primary form factor	Rackmount
UPS / Power Module dimensions in primary form factor (height x width x depth / inches)	5.2 x 17.5 x 26
UPS / Power Module dimensions in primary form factor (height x width x depth / cm)	13.3 x 44.4 x 66
Installed whole system maximum rack depth (inches)	26
Installed whole system maximum rack depth (cm)	66
Installed whole system total rack space height (rack spaces)	6U
Secondary form factor	Tower (requires 2-9USTAND)
UPS / Power Module weight (lbs)	43.8

UPS / Power Module weight (kg)	19.9
UPS dimensions details	Includes 3U power module and 3U battery pack
Included battery pack dimensions (height x width x depth / inches)	5.2 x 17.5 x 25
Included battery pack dimensions (height x width x depth / cm)	13.3 x 44.4 x 63.5
Included battery pack weight (lbs)	136.5
Included battery pack weight (kg)	62
Shipping weight (lbs)	323
Shipping weight (kg)	146.6
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	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)	94%
Audible Noise	60 dBA at front side 1 meter
COMMUNICATIONS	
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
LINE / BATTERY TRANSFER	
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
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; Schedulable daily hours of economy mode operation
CERTIFICATIONS	
UPS Certifications	Tested to UL1778 (USA); Tested to CSA (Canada); Tested to CE (EU); Tested to GOST (Russia); Tested to SASO (Saudi Arabia); Tested to IRAM (Argentina); Meets FCC Part 15 Category A (EMI); ROHS (Reduction of Hazardous Substances)
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.
Shutdown Cable Kits	AS400CABLE KIT	Power Management Tools - UPS Communication Cable Kit for System i / AS400 / iSeries Servers	-
SNMP Accessories	SNMPWEBCARD	For remote monitoring and control via SNMP, Web, or Telnet.	-
SNMP Accessories	ENVIROSENSE	Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.)	-
Power Cables	SU30ACORD	SU30ACORD - Optional Input Cord for UPS System	-
Backplates	SUPDM11	Corded UPS Backplate Outlet Kit - Adds AC plug-in connection and AC output receptacle to SU6000RT3UHV UPS	-
External Battery Packs	BP240V557C-1PH	External battery pack for use with select Tripp Lite UPS Systems	-
External Battery Packs	BP240V787C-1PH	External battery pack for use with select Tripp Lite UPS Systems	-
External Battery Packs	BP240V1037C-1PH	External battery pack for use with select Tripp Lite UPS Systems	-
External Battery Packs	BP240V1407C-1PH	External battery pack for use with select Tripp Lite UPS Systems	-
Extended Warranties	WEXT3-SU6000HV	3-Year Extended Warranty - For SU6000RT3UHV only	-
Extended Warranties	WEXT5-SU6000HV	5-Year Extended Warranty - For SU6000RT3UHV only	-
External Battery Packs	BP240V10RT3U	External Battery Pack and Cable. 3U, Expandable, Black 3-Point Connector	-
Rackmount/Wallmount Kits	2POSTRMKITHD	Enables 2-Post Rackmount Installation of 3U and Larger UPS, Transformer and Battery Pack Components	-

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=1972.

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