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Model #: SU5000RT3U

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



Highlights

- 5000VA online 7U rack / tower UPS (3U Power Module + 2U Transformer Module + 2U 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 208V - PLUS 120V output +/-2% during brownouts to 156 and overvoltages to 276V
- Expandable runtime with optional external battery packs
- \$250,000 [Ultimate Lifetime Insurance](#) (USA, Puerto Rico & Canada only)

Description

Tripp Lite 5kVA Smart Online RM UPS. 5000VA on-line, double-conversion UPS for server, network and telecommunications equipment. Maintains battery-derived AC output during blackouts with active, full-time power conditioning. Fault-tolerant auto-bypass prevents unexpected service interruptions during overload or internal fault conditions. 3U power module, 2U transformer module and 2U battery pack install in 7 rack spaces. Full-time sine wave output within 2% of selectable 208V and simultaneous 120V AC. Corrects brownouts to 156V and overvoltages to 276V. Frequency regulation locks output power to 50/60Hz (+/-0.2%). Expandable runtime with optional rackmount external battery packs. Dual-conversion UPS converts raw input from AC to DC, then back to perfect 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. Highly efficient operation in optional economy mode setting, saving BTU heat output and energy costs. Network-grade AC surge and noise suppression. Network management interfaces include 2 DB9 ports and SNMPWEBCARD slot. Supports simultaneous detailed monitoring of equipment load levels, self-test data and utility power conditions via all 3 network interfaces. Includes PowerAlert monitoring software and complete cabling. Emergency Power Off (EPO) interface. Front panel LEDs and LCD readout with scroll controls support visual monitoring of all major UPS functions. Audible alarm. Self test. 4-post rackmount accessories included; 2-9U STAND and 2-POST RM KIT WM accessories available. L6-30P plug-in connection; built-in output receptacles include two L6-30R, two L6-20R and twelve 5-15/20R. Power Distribution Unit (PDU) options supported. Field-replaceable, hot-swappable external battery packs. Attractive all-black color scheme. 2-year warranty and \$250,000 [connected equipment insurance](#); extended warranty and service contracts available.

Package Includes

- SU5000RT3U system includes one 3U power module, one 2U step-down isolation transformer module and one 2U external battery module
- PowerAlert UPS management software and complete cabling
- Mounting hardware to support each module in 4-post rackmount enclosures
- Warranty information
- Instruction manual

Features

- True online, double-conversion UPS provides pure, full-time sine wave AC output free of surges, voltage fluctuations and line noise
- 5000VA/3500 watt output power capacity with dual high/low voltage output compatible with 200-240V and 120V applications simultaneously
- 3U power module, 2U transformer module and 2U battery pack installs in any 19 inch rack enclosure using only 7 rack spaces
- Dual conversion UPS actively converts raw input from AC to DC, then back to perfect 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

- Provides perfectly regulated, sine wave output power free of line noise, transient surges and frequency variation for the most efficient operation of critical servers, networking and telecommunications equipment
- Accepts input voltages between 156 and 276, regulating output within 2% of 208 - plus 120V nominal voltage
- Supports connected equipment during blackouts for 20/8 minutes at half/full load levels, runtime is further expandable with optional external battery packs
- Network interfaces support simultaneous communications via 2 DB9 ports and SNMPWEBCARD slot
- Included PowerAlert UPS monitoring software supports safe unattended shutdown, monitoring and control via local connected servers, plus any number of additional servers over IP
- Communications ports support on-battery, low-battery, power-restored, AC-voltage, DC-voltage, output current monitoring, battery charge current, battery capacity, AC line frequency, timed inverter shutoff, activate self-test and output power control
- Built-in Emergency Power Off (EPO) interface with cable
- Includes 17 built-in output receptacles (3 L6-30R w/one L6-30R used for transformer connection, 2 L6-20R, 12 NEMA 5-15/20R)
- L6-30P input plug-in connection
- Front panel LEDs and LCD readout with scroll button enables visual confirmation of all major UPS functions and current site electrical conditions
- Front panel switches enable power on/off control, self-test and alarm cancel functions
- Included adjustable mounting rails support installation in 4 post 19 inch rack enclosures, optional 2POSTRMKITWM supports 2 post rackmount installation
- UPS ships fully assembled in full compliance with DOT regulations, no time consuming connection of internal batteries by user is required
- 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
- 2 year manufacturer's product warranty, \$250,000 [Ultimate Lifetime Insurance](#) (USA & Canada only)

Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	5000
Output kVA capacity (kVA)	5
Output Watt Capacity (watts)	3500
Output kW capacity	3.5
Output power factor	0.7
Crest Factor	3:1
Nominal Output Voltage(s) Supported	120V; 208V
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	12 5-15/20R outlet(s); 2 L6-20R outlet(s); 2 L6-30R outlet(s)

Output circuit breaker	20A breakers (x4) on transformer module protect 3 5-15/20R outlets each, 20A breaker on power module protects L6-20R outlets, L6-30R outlets are unbreakered
Basic PDU options	PDU1220 (1U / 13 5-15/20R outlets); PDU1230 (1U / 2 C19, 16 C13 outlets); PDUNV (1U / 2 C19, 12 C13 outlets); PDUV30HV (0U / 6 C19, 32 C13 outlets)
Metered PDU options	PDUMH20 (1U / 13 5-15/20R outlets); PDUMH20AT (1U / 16 5-15/20R outlets)*; PDUMV20 (0U / 16 5-15/20R outlets); PDUMV40 (0U / 32 5-15/20R outlets); PDUMV20HV (0U / 6 C19, 32 C13 outlets); PDUMV30HV (0U / 6 C19, 24 C13 outlets)
Switched PDU options	PDUMH20ATNET (1U / 16 5-15/20R outlets)*; PDUMH20HVNET (1U / 8 C13 outlets); PDUMH30HVNET (2U / 16 C13 outlets); PDUMV20NET (0U / 24 5-15/20R outlets); PDUMV20HVNET (0U / 4 C19, 24 C13 outlets); PDUMV30HVNET (0U / 4 C19, 24 C13 outlets)
Output AC waveform (AC mode)	Sine wave
Output AC waveform (battery mode)	Sine wave
INPUT	
Rated input current (at maximum load)	24A (208V), 21A (240V)
Nominal Input Voltage(s) Supported	208V AC
UPS input connection type	L6-30P
UPS Input cord length (ft.)	10
UPS Input cord length (m)	3
Recommended Electrical Service	30A 208V
BATTERY	
Full load runtime (minutes)	8 min. (3500w)
Half load runtime (minutes)	20 min. (1750w)
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 130
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
ISOLATION	
Output isolation transformer	120V 5-15/20R outlets include load isolation transformer protection
PHYSICAL	
Installation form factors supported with included accessories	4 post 19 inch rackmount (mounting rail kit included)
Included mounting accessory description	3 sets of adjustable 4 post rack rails included
Installation form factors supported with optional accessories	2 post rackmount (2POSTRMKITWM); Tower (2-9USTAND)
Optional mounting accessory notes	3 sets of 2POSTRMKITWM required for 2 post rackmount installation of separate power module, transformer 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)	7U
Secondary form factor	Tower (requires 2-9U STAND)
UPS / Power Module weight (lbs)	42
UPS / Power Module weight (kg)	19.1
UPS dimensions details	Includes 3U power module, 2U stepdown transformer and 2U external battery pack
Stepdown transformer dimensions (height x width x depth / inches)	3.5 x 17.5 x 21
Stepdown transformer dimensions (height x width x depth / cm)	8.9 x 44.4 x 53.3
Stepdown transformer weight (lbs)	57
Stepdown transformer weight (kg)	25.9
Included battery pack dimensions (height x width x depth / inches)	3.5 x 17.5 x 22.5
Included battery pack dimensions (height x width x depth / cm)	8.9 x 44.4 x 57.2
Included battery pack weight (lbs)	92
Included battery pack weight (kg)	41.8
UPS Shipping dimensions (height x width x depth / cm)	0 x 0 x 0
Shipping weight (lbs)	256
Shipping weight (kg)	116.2
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)	1322.2
AC economy mode BTU / hr. (full load)	759.6
Battery mode BTU / hr. (full load)	1322.2
AC economy mode efficiency rating (100% load)	94%
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 NOM (Mexico); Tested to CE (EU); Tested to GOST (Russia); Tested to SASO (Saudi Arabia); 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.
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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.)	-
Rackmount/Wallmount Kits	2POSTRMKITHD	Enables 2-Post Rackmount Installation of 3U and Larger UPS, Transformer and Battery Pack Components	-
Surge Protectors	DTEL2	Network Surge Suppressor - Essential protection for data and communication lines	-
Surge Protectors	DNET1	Network Surge Suppressor - Essential protection for data and communication lines	-
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	WEXT3-5000	3-Year Extended Warranty - For SMART5000RT3U (one Power Module and Battery Pack)	-
Extended Warranties	WEXT5-5000	5-Year Extended Warranty - For SMART5000RT3U (one Power Module and Battery Pack)	-
External Battery Packs	BP240V10RT3U	External Battery Pack and Cable. 3U, Expandable, Black 3-Point Connector	-
Tower Stands	2-9USTAND	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=2875.