



Tripp Lite
1111 West 35th Street
Chicago, IL 60609 USA
Telephone: +(773) 869 1234
E-mail: saleshelp@tripplite.com

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)
- 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. 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.

Applications

Ideal for protection of sensitive electronics in any application calling for upright tower or 19 inch rackmount UPS protection. Common applications include any mix of servers, workstations, hubs, routers, concentrators, IP telephony and traditional PBX switching systems

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

SYSTEM OVERVIEW	
Voltage compatibility	208V AC
Frequency compatibility	50/60Hz
OUTPUT	
Output VA	5000
Output watts	3500
Output nominal voltage	208V & 120V AC
Output voltage regulation	Maintains pure sine wave output at all times, regulated within 2% of selected nominal output voltage, less than 5% total harmonic distortion
Output frequency regulation	Regulates line frequency to 50/60Hz +/- 0.05Hz
Outlet quantity / type	2 NEMA L6-30R, 2 NEMA L6-20R, 12 NEMA 5-15/20R
Overload protection	Resettable circuit breaker
INPUT	
Maximum input amps	24A 208V / 21A 240V
Input connection type	NEMA L6-30P
Input cord length	10 ft / 3 m
Recommended electrical service	30A
BATTERY	
Full load runtime	8 minutes (5000VA / 3500 watts)
Half load runtime	20 minutes (2500VA / 1750 watts)

Expandable battery runtime	Yes, with optional BP240V10RT3U external battery packs
DC system voltage	240V DC
Typical battery lifespan	4-6 years, depending on usage
Battery recharge rate	2-4 hours to 90%
VOLTAGE REGULATION	
Voltage regulation description	On-line, double-conversion process give this UPS the ability to maintain output voltage within +/-2% of selected nominal voltage at all times
Overvoltage correction	Maintains continuous operation without using battery power during overvoltages to 276V AC, regulating output within 2% of selected nominal
Brownout correction	Maintains continuous operation without using battery power during brownout / undervoltage conditions to 156VAC, regulating output within 2% of selected nominal
LEDS ALARMS & SWITCHES	
Front panel LEDs	6 LED DISPLAY: line power, bypass, inverter, charger, output AC and battery operation. SELECTABLE LCD DISPLAY: input/output voltage, Hz, battery voltage and charge level and detailed warnings regarding all major UPS functions
Alarms	Multi-function audible alarm offers notification of UPS start, backup operation, low battery, overload, UPS fault, inverter fault, DC bus fault, overtemperature, remote shutdown, shutdown imminent and shutdown complete
Switches	Includes main power off/on switch, plus 2 switches to set and execute scrollable LCD functions
SURGE / NOISE SUPPRESSION	
AC surge suppression	480 joules
AC suppression response time	Instantaneous
EMI / RFI AC noise suppression	Yes
PHYSICAL	
Shipping weight (lbs)	256
Shipping weight (kg)	117
Unit weight (lbs)	Power Module (42 lb), Transformer Module (57 lb), Battery Module (92 lb)
Unit weight (kg)	Power Module (20 kg), Transformer Module (26 kg), Battery Module (42 kg)
Unit Dimensions (HWD/in)	Power Module (5.25 x 17.5 x 26 in), Transformer Module (3.5 x 17.5 x 21 in), Battery Module (3.5 x 17.5 x 22.5 in)
Unit Dimensions (HWD/cm)	Power Module (13.3 x 44.5 x 66 cm), Transformer Module (8.9 x 44.5 x 53.3 cm), Battery Module (8.9 x 44.5 x 57.2 cm)
Material of construction	Steel
Form factors supported	Rack (7U)
Cooling method	Built-in cooling fan
Battery Access	User replaceable, hot swappable external battery pack
ENVIRONMENTAL	
Operating Temperature	+32 to +104 degrees Fahrenheit, 0 to +40 degrees Celsius
Storage Temperature	+5 to +122 degrees Fahrenheit, -15 to +50 degrees Celsius
Relative Humidity	0 to 95%, non-condensing
Line mode BTU/hr. (Max.)	1937.3
COMMUNICATIONS	

Network monitoring port	Includes 2 built-in DB9 monitoring ports (1-RS232 / 1-contact closure)
Software and cabling included	Includes PowerAlert UPS monitoring software for all common network and standalone operating systems. Cabling included.
SNMP compatibility	Built-in accessory slot accommodates internal SNMP / Web card and other network accessories
LINE / BATTERY TRANSFER	
Transfer time from line power to battery mode	Zero, online UPS continuously converts incoming AC to DC, then back to AC. When line power is interrupted, UPS maintains continuous output from battery reserves with absolutely no disruption in output AC power.
Low voltage transfer to battery power	Maintains continuous operation during undervoltages as low as 156VAC. Below this point, output is maintained utilizing battery reserves.
High voltage transfer to battery power	Maintains continuous operation during overvoltages to 276VAC. Above this point, output is maintained utilizing battery reserves.
CERTIFICATIONS	
Certifications	Tested to UL1778 (USA), cUL (Canada), Class A (Emissions), CE, NOM (Mexico), GOST, SASO
WARRANTY	
Product warranty	2 year product warranty
Connected equipment insurance (USA and Canada Only)	\$250,000 connected equipment insurance (USA and Canada only)
Optional coverage	3 year, 5 year, next day and on-site warranty coverage available for select opportunities - contact Tripp Lite
SPECIAL FEATURES	
EPO port	Includes dedicated EPO (emergency power off) interface and cabling
Cold Start	Yes, inverter can be "cold started" to enable temporary AC output during a power failure
Appearance	Attractive black steel rackmount housing
BATTERY PACK ACCESSORY (optional)	
Battery Pack Accessory (optional)	BP240V10RT3U (optional)

More information, including related products, owner's manuals, and additional technical specifications, can be found online at www.tripplite.com/products/model.cfm?txtModelID=2875.