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Model #: SU5000RT4U

SmartOnline Hot-Swappable Modular UPS System - On-line, double-conversion protection for mission critical applications



Highlights

- 5000VA / 5kVA on-line, double-conversion, extended run, 4U all-in-one rack / tower UPS
- Maintains dual 208/120 or 240/120V output +/-3% during brownouts and overvoltages (4 wire split-phase input)
- Simultaneous use of HID compliant USB port, serial port, SNMP/Web card slot, and EPO interface - front panel LCD digital display for real-time site electrical and detailed UPS operating parameters
- Detachable plug & outlet panel with auto/manual bypass and fault tolerant design enables hot-swap UPS replacement without powering off connected equipment
- Expandable runtime with optional BP192V12-3U external battery packs
- \$250,000 [Ultimate Lifetime Insurance](#) (USA, Puerto Rico & Canada only)

Description

Tripp Lite 5kVA SmartOnline Hot-Swappable Modular Rack/Tower 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. Single all-in-one housing installs in 4 rack spaces (4U). Upright tower installation with optional 2-9USTAND accessory. 2-post rackmount installation with optional 2POSTRMKITWM. Full-time sine wave output within 3% of selectable 208/120 or 240/120V AC. Corrects brownouts and overvoltages from 65V to 140V (L-N). Expandable runtime with optional BP192V12-3U 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 combination RS-232 enabled and contact closure serial port, enhanced USB port and SNMPWEBCARD slot. Includes USB and DB9 serial ports. Built-in DB9 port offers both enhanced RS-232 enabled monitoring data, plus contact closure monitoring ability. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. Supports simultaneous detailed monitoring of equipment load levels, self-test data and mains 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. LED/LCD display panel easily rotates for viewing in rackmount or tower configurations. Audible alarm. Self test. 4-post rackmount accessories. L14-30P split phase 4 wire plug-in connection; two L6-30R, two L6-20R and eight 5-15/20R output receptacles. Input cord and outlets are mounted on a detachable backplate with manual bypass switch to enable hot-swappable UPS replacement without powering off connected equipment. Optional SUPDM56HW detachable backplate accessory enables hardwire input-output connections to the UPS. Additional external Power Distribution Unit (PDU) options available. Internal batteries and optional external battery packs are field replaceable and hot swappable. 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

- SU5000RT4U UPS System (with SUPDMB56 detachable PDU module)
- USB, DB9 and EPO cabling
- Rackmount installation kit for 4 post rack enclosures
- Owner's manual and warranty information

Features

- True on-line, double-conversion UPS provides pure, full-time sine wave AC output free of surges, voltage fluctuations and line noise
- 5000VA/3800 watt output power capacity with dual voltage output of 208/120 or 240/120V
- 4U all-in-one high power density housing supports rackmount installation in only 4 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
- Input cord and outlets are mounted on a detachable backplate with manual bypass switch to enable hot-swappable UPS replacement without powering off connected equipment
- Optional SUPDM56HW detachable backplate accessory enables hardwire input-output connections to the UPS
- 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
- Maintains output within 3% of selected 208/120 or 240/120V nominal voltage during brownouts and overvoltages
- Supports connected equipment during blackouts for 14/6 minutes at half/full load levels, runtime is further expandable with optional external battery packs
- Network interfaces support simultaneous communications via DB9 port, USB port 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
- Communication 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
- Includes USB and DB9 serial ports. Built-in DB9 port offers both enhanced RS-232 enabled monitoring data, plus contact closure monitoring ability. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X.
- Built-in Emergency Power Off (EPO) interface with cable
- Includes 12 built-in output receptacles (2 L6-30R, 2 L6-20R, 8 NEMA 5-15/20R)
- L14-30P split phase, 4 wire plug-in connection (featured on included detachable PDU). Optional SUPDM56HW hardwire input/output PDU available separately
- 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 2-9USTAND set of tower stands supports upright tower installation
- Optional 2POSTRMKITWM accessory enables 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
- Detachable PDU with built-in manual bypass switch enables hot-swappable UPS replacement without powering off connected equipment
- 2 year manufacturer's product warranty, \$250,000 [Ultimate Lifetime Insurance](#) (USA & Canada only)

Specifications

SYSTEM OVERVIEW	
Voltage compatibility	208/120 or 240/120V split phase, 4 wire
Frequency compatibility	60Hz
OUTPUT	
Output VA	5000
Output watts	3800
Output nominal voltage	208/120 or 240/120V

Output voltage regulation	Maintains pure sine wave output at all times, regulated within 3% 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 and 8 NEMA 5-15/20R
Overload protection	Resettable circuit breaker
INPUT	
Maximum input amps	21A
Input connection type	NEMA L14-30P split phase, 4 wire
Input cord length	10 ft / 3m
Recommended Electrical Service	30A split phase, 4 wire 208/120 or 240/120V
BATTERY	
Full load runtime	6 minutes (5000VA) - expandable
Half load runtime	14 minutes (2500VA) - expandable
Expandable battery runtime	Yes, with optional BP192V12-3U
DC system voltage	192V
Typical battery lifespan	4-6 years (typical)
Battery recharge rate	4-6 hours to 90% for internal batteries
Replacement Battery Cartridge	RBC9-192
VOLTAGE REGULATION	
Voltage regulation description	Maintains 208/120 or 240/120V output +/-3%
Overvoltage correction	Corrects overvoltages as high as 140V (L1-N:L2-N)
Brownout correction	Corrects brownouts as low as 65V (L1-N:L2-N)
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. LED/LCD display panel easily rotates for viewing in rackmount or tower configurations.
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. 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. Battery Charge level switch allows the charger output to be adjusted to a higher charge rate when additional battery packs are added.
SURGE / NOISE SUPPRESSION	
AC surge suppression	Conforms to IEEE 587 / ANSI C62.41 specifications
AC suppression response time	Instantaneous
EMI / RFI AC noise suppression	Yes
PHYSICAL	

Shipping weight (lbs)	189.2
Shipping weight (kg)	85.9
Shipping Dimensions (HWD/in)	13.25 x 37 x 23
Shipping Dimensions (HWD/cm)	33.7 x 94 x 58.4
Unit weight (lbs)	149.6
Unit weight (kg)	67.9
Unit Dimensions (HWD/in)	7 x 17.5 x 30.75
Unit Dimensions (HWD/cm)	17.8 x 44.5 x 78.1
Material of construction	Steel
Form factors supported	Rack (4U)
Cooling method	Fan
Battery Access	User replaceable, hot swappable internal batteries and external battery packs
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.)	1761.6 BTU/hr. at 100% load
Battery mode BTU/hr. (Max.)	1123.5 BTU/hr. at 100% load
Operating Elevation (ft)	0-3000m (0 to 10,000 ft.)
COMMUNICATIONS	
Network monitoring port	Includes USB and DB9 serial ports. Built-in DB9 port offers both enhanced RS-232 enabled monitoring data, plus contact closure monitoring ability. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X.
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 65V (L1-N:L2-N). Below this point, output is maintained utilizing battery reserves.
High voltage transfer to battery power	Maintains continuous operation during overvoltages to 140V (L1-N:L2-N). Above this point, output is maintained utilizing battery reserves.
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)	BP192V12-3U
CERTIFICATIONS	
Certifications	Tested to UL1778 (USA), CSA C22.2 107.3 (Canada), Class A (Emissions), NOM (Mexico), RoHS Compliant
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

Related Items

Extended Warranties		
WEXT3-5000	3-Year Extended Warranty - For SMART5000RT3U (one Power Module and Battery Pack)	Qty: [optional]
WEXT5-5000	5-Year Extended Warranty - For SMART5000RT3U (one Power Module and Battery Pack)	Qty: [optional]

External Battery Packs		
BP192V12-3U	BP192V12-3U - External Battery Pack for UPS System	Qty: [optional]

Hardwire Accessory Modules		
SUPDM56HW	SUPDM56HW - UPS Accessory - Hardwire PDU Module	Qty: [optional]

Rackmount/Wallmount Kits		
2POSTRMKITWM	Allows for 2 post mounting of Tripp Lite 2U-4U rackmount UPS systems and battery packs	Qty: [optional]

Shutdown Cable Kits		
AS400CABLE KIT	Power Management Tools - UPS Communication Cable Kit for System i / AS400 / iSeries Servers	Qty: [optional]

SNMP Accessories		
ENVIROSENSE	Power Management Tools - Environmental Sensor	Qty: [optional]
SNMPWEBCARD	Power Management Tools - Internal SNMP/Web Card	Qty: [optional]

Start-Up/Warranty Services		
W02-BW0	Regular business hours start-up, excludes on-site warranty.	Qty: [optional]
W02-BW2-1BD	Regular business hours start-up and two year on-site, next business day break/fix warranty service for locations within 350 miles of a covered service area.	Qty: [optional]
W02-BW2-247	Regular business hours start-up and two year on-site, 24-by-7 break/fix warranty service for locations within 250 miles of a covered service area.	Qty: [optional]
W02-BW3-1BD	Regular business hours start-up and three year on-site, next business day break/fix warranty service for locations within 350 miles of service area.	Qty: [optional]
W02-BW3-247	Regular business hours start-up and three year on-site, 24-by-7 break/fix warranty service for locations within 250 miles of service area.	Qty: [optional]
W02-EW0	Evening or weekend hours start-up, excludes on-site warranty.	Qty: [optional]
W02-EW2-1BD	Evening or weekend hours start-up and two year on-site, next business day break/fix warranty service for locations within 350 miles of service area.	Qty: [optional]

W02-EW2-247	Evening or weekend hours start-up and two year on-site, 24-by-7 break/fix warranty service for locations within 250 miles of service area.	Qty: [optional]
W02-EW3-1BD	Evening or weekend hours start-up and three year on-site, next business day break/fix warranty service for locations within 350 miles of service area.	Qty: [optional]
W02-EW3-247	Evening or weekend hours start-up and three year on-site, 24-by-7 break/fix warranty service for locations within 250 miles of service area.	Qty: [optional]
W02-BW1-1BD	Regular business hours start-up and one year on-site, next business day break/fix warranty service for locations within 350 miles of a covered service area.	Qty: [optional]
W02-BW1-247	Regular business hours start-up and one year on-site, 24-by-7 break/fix warranty service for locations within 250 miles of a covered service area.	Qty: [optional]
W02-EW1-1BD	Evening or weekend hours start-up and one year on-site, next business day break/fix warranty service for locations within 350 miles of service area.	Qty: [optional]
W02-EW1-247	Evening or weekend hours start-up and one year on-site, 24-by-7 break/fix warranty service for locations within 250 miles of service area.	Qty: [optional]

Surge Protectors		
DTEL2	Network Surge Suppressor - Essential protection for data and communication lines	Qty: [optional]
DNET1	Network Surge Suppressor - Essential protection for data and communication lines	Qty: [optional]
DCATV	Network Surge Suppressor - Essential protection for TV/VCR coaxial lines	Qty: [optional]

Tower Stands		
2-9USTAND	Tower Stand - Expandable Tower Base Stand UPS Accessory	Qty: [optional]

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=3138.