



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

Model #: SU6000RT3U

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



Highlights

- 6000VA online 9U rack / tower UPS (3U Power Module + 3U Step-down Transformer + 3U Battery Pack)
- Enhanced serial communications ports, SNMP/Web card slot and EPO jack
- Maintains 208 and simultaneous 120V output $\pm 2\%$ during brownouts to 156 and overvoltages to 276V
- Fault tolerant manual and auto bypass modes
- Expandable runtime with optional BP240V10RT3U battery packs
- \$250,000 [Ultimate Lifetime Insurance](#) (USA, Puerto Rico & Canada only)

Description

Tripp Lite 6kVA Smart Online RM UPS - 6000VA. The SU6000RT3U on-line, 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, step-down transformer, and battery pack occupy only 3 rack spaces each (9U 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 208V and 120V 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. 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 (part# BP240V10RT3U). 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.

Applications

Ideal for protection of critical 208V and 120V equipment in server rooms, internetworking closets and telecommunications systems in rackmount or tower applications. Common applications include corporate or departmental servers, workstations, hubs, routers, bridges, CAD/CAM workstations, concentrators, IP telephony and traditional PBX switching systems.

Package Includes

- SU6000RT3U system includes 1 3U power module, 1 3U step-down isolation transformer and 1 3U battery pack
- PowerAlert UPS management software and complete cabling
- Mounting hardware to support each 3U module in 4 post rackmount enclosures/tower stands
- Warranty information
- Instruction manual

Features

- True on-line, double conversion UPS provides pure, sine wave AC output at all times
- 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 208 and 120V AC output

Standard included 3U battery pack provides 20 minutes runtime at half load (3000VA) and 8 minutes at full load (6000VA)

Expandable runtime with multiple external battery packs (part# BP240V10RT3U)

Innovative design makes unit adaptable for rackmount, tower, or stacking applications

Power module and battery pack require only 3 rack spaces each (9U total rack space usage)

DB9 serial port for network interface; SNMP compatible

Slot for optional SNMP/web card SNMP/Web card for accessory slot ([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

Manual bypass switch on the transformer module allows users to disconnect, remove, and replace the power module while maintaining continuous utility power to connected equipment

Diagnostic LEDs

Mounting hardware included with each 3U module for 4 post rackmount installation, 2 post telecom rack compatible with separate purchase 2POSTRMKITWM accessory (3 required)

Includes RJ11 EPO (emergency power off) port and interconnection cable

\$250,000 Ultimate Lifetime[connected equipment insurance](#) (USA, Canada, & Puerto Rico Only)

2 year manufacturers product warranty

Specifications

| SYSTEM OVERVIEW | |
|--------------------------------|--|
| Voltage compatibility | 208V AC |
| Frequency compatibility | 50/60Hz |
| OUTPUT | |
| Output VA | 6000 |
| Output watts | 4200 |
| 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 | Hardwire |
| Overload protection | Resettable 40A circuit breaker |
| INPUT | |
| Maximum input amps | 30A / 4700 watts max. |
| Input connection type | Hardwire |
| Recommended Electrical Service | 30A 208V |
| BATTERY | |
| Full load runtime | 8 min (6000VA) |
| Half load runtime | 20 min. (3000VA) |
| Expandable battery runtime | Supports extended runtime with optional external battery pack BP240V10RT3U (multi-pack compatible) |
| DC system voltage | 240 V DC |
| Typical battery lifespan | 3-6 years, depending on usage |

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| Battery recharge rate | Less than 8 hours to 90% (included battery set only) |
| 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. 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 |
| SURGE / NOISE SUPPRESSION | |
| AC suppression response time | Instantaneous |
| EMI / RFI AC noise suppression | Yes |
| PHYSICAL | |
| Shipping weight (lbs) | 380 |
| Shipping weight (kg) | 171 |
| Unit weight (lbs) | Power Module: 43.8 lbs., Battery Pack: 139 lbs., Step-down Transformer: 90 lbs. |
| Unit weight (kg) | Power Module: 19.7 kg, Battery Pack: 62.6 kg, Step-down Transformer: 41kg |
| Unit Dimensions (HWD/in) | Power Module 5.25 x 17.5 x 26, Battery Pack 5.25 x 17.5 x 25, Step-down Transformer 5.25 x 17.5 x 26 (Step-down transformer max depth is 24 inches when compatible SUPDM backplate is used) |
| Unit Dimensions (HWD/cm) | Power Module 13.3 x 44.5 x 66, Battery Pack 13.3 x 44.5 x 63.5, Step-down Transformer 13.3 x 44.5 x 66 |
| Material of construction | Steel |
| Form factors supported | Rack (9U) |
| Cooling method | Built-in cooling fan |
| Battery Access | User replaceable, hot swappable external battery pack |
| ENVIRONMENTAL | |
| Operating Temperature | +32 to +104 degrees Fahrenheit |
| Storage Temperature | +5 to +122 degrees Fahrenheit |
| Relative Humidity | 0 to 95%, non-condensing |
| Line mode BTU/hr. (Max.) | 1418 |
| 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 | |
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| 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. |
| 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) |
| CERTIFICATIONS | |
| Certifications | Tested to UL1778 (USA), cUL (Canada), CE (Europe), Class A (emissions), NOM (Mexico), GOST, IRAM, SASO |
| WARRANTY | |
| Product warranty | 2 year product warranty |
| Connected equipment insurance (USA and Canada Only) | \$250,000 connected equipment insurance (USA , Canada, & Puerto Rico only) |
| Optional coverage | 3 year, 5 year, next day and on-site warranty coverage available for select opportunities - contact Tripp Lite |

Related Items

| Backplates | | |
|--------------------------|---|-----------------|
| SUPDM12 | Corded UPS Backplate Outlet Kit - Adds AC plug-in connection and AC output receptacles to SU6000RT3U and SU6000RT3UXR UPS for use with 208V UPS output voltage configurations | Qty: [optional] |
| SUPDM13 | Corded UPS Backplate Outlet Kit - Adds AC plug-in connection and AC output receptacles to SU6000RT3U and SU6000RT3UXR UPS for use with 240V UPS output voltage configurations | Qty: [optional] |
| SUPDM15 | Corded UPS Backplate Outlet Kit - Adds AC plug-in connection and AC output receptacles to SU6000RT3U and SU6000RT3UXR UPS for use with 240V UPS output voltage configurations | Qty: [optional] |
| SUPDM16 | Corded UPS Backplate Outlet Kit - Adds AC plug-in connection and AC output receptacles to SU6000RT3U and SU6000RT3UXR UPS for use with 208V UPS output voltage configurations | Qty: [optional] |
| Extended Warranties | | |
| WEXT3-SU6000 | 3-Year Extended Warranty - For SU6000 models | Qty: [optional] |
| WEXT5-SU6000 | 5-Year Extended Warranty - For SU6000 models | Qty: [optional] |
| External Battery Packs | | |
| BP240V10RT3U | External Battery Pack and Cable. 3U, Expandable, Black 3-Point Connector | Qty: [optional] |
| Power Cables | | |
| SU30ACORD | SU30ACORD - Optional Input Cord for UPS System | Qty: [optional] |
| Rackmount/Wallmount Kits | | |

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| 2POSTRMKITWM | Allows for 2 post mounting of Tripp Lite 2U-4U rackmount UPS systems and battery packs | Qty: [optional] |
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| Shutdown Cable Kits | | |
| AS400CABLE KIT | Power Management Tools - UPS Communication Cable Kit for System i / AS400 / iSeries Servers | Qty: [optional] |

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

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| 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] |

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| 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] |

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| 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=32.