

Model #: SU6000RT4U

SmartOnline 6kVA On-Line Double-Conversion UPS, 4U Rack/Tower, 208/120V or 240/120V NEMA outlets, Split-phase input



Highlights

- Completely user hot-swappable—no service call or technician needed
- Protects rackmount servers, telecom systems and other networking equipment with true on-line operation, pure sine wave output and zero transfer time to battery
- 12 AC outlets (8 5-15/20R; 2 L6-20R; 2 L6-30R)
- 6kVA/4200W capacity in 4U form factor with power module and independent, detachable PDU
- Hot-swappable power and battery modules
- 20-minute half-load runtime, 8-minute full-load; expandable runtime with external battery packs
- Front panel LEDs with detailed LCD monitoring and control screen
- USB, RS232 and SNMP communication ports with included PowerAlert software for complete network power management and control
- \$250,000 Ultimate Lifetime Insurance; 2-year warranty

Description

Featuring true on-line operation with pure sine wave output, zero transfer time to battery and complete UPS replacement capability with no downtime, the SU6000RT4U provides the highest level of protection available for mission-critical equipment from power outages, voltage fluctuations and transient surges. It converts incoming AC power to DC, and re-converts it back to filtered AC output with a pure sine wave, isolating connected components from all power problems. The SU6000RT4U has a 6kVA/4200W capacity, NEMA L14-30P 4-wire split-phase input and 12 total AC outlets (8 5-15/20R; 2 L6-20R; 2 L6-30R).

With its detachable PDU, the SU6000RT4U is easily hot-swappable by a user of any skill set—no need for lengthy and expensive service calls, and no downtime if a repair or battery replacement is needed. In bypass mode, the PDU passes power to equipment without the use of the power and battery modules, allowing them to be removed while keeping your application in operation.

UPS battery backup keeps connected equipment operational through short power failures, and provides time to save data and perform an orderly system shutdown in case of a prolonged blackout. The SU6000RT4U's runtime can be expanded with optional external battery packs.

The SU6000RT4U features a highly efficient (94%) economy mode setting that can significantly reduce a facility's energy costs by minimizing heat output, reducing cooling requirements and consuming less electricity.

An LCD display with LED indicators enables IT personnel to monitor operating modes and conditions. The LCD/LED panel rotates for viewing in horizontal rack or vertical tower installations and includes an audible alarm that signals various conditions.

The SU6000RT4U features a USB port and a DB9 port that, when used with Tripp Lite's included PowerAlert software, provide comprehensive network power monitoring and control. An optional SNMPWEBCARD accessory can enable the UPS to operate as an IP managed device.

The unit requires only 4U of rack space in a standard rack enclosure and can be installed in a 2-post rack using the 2POSTRMKITHD accessory, or in a tower configuration with the 2-9USTAND accessory.

The SU6000RT4U comes with \$250,000 Ultimate Lifetime Insurance coverage for connected equipment and a 2-year warranty.

Package Includes

- SU6000RT4U 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
- 6000VA/4200 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 and SUPDMB568HW installable backplate accessories enable hardwire input-output connections
- 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 20/8 minutes at half/full load levels, runtime is further expandable with optional external battery packs
- Some external battery configurations require the use of Tripp Lite's External Battery Configuration Software (see manual)
- 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
- 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
- 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 2POSTRMKITHD 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 electronic bypass maintains utility output during a variety of UPS fault conditions
- Detachable PDU with built-in manual bypass switch enables hot-swappable UPS replacement without powering off connected equipment
- \$250,000 Ultimate Lifetime Insurance (USA and Canada Only)

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 |
| Output Capacity Details | 6,000 VA (240V) / 5400 VA (208V) / 4200 watts (208/240V) |
| Crest Factor | 3:1 |
| Nominal Output Voltage(s) Supported | 120V; 208V; 240V |

| Nominal Voltage details | 240/120 or 208/120 split phase output |
|---|---|
| Frequency compatibility | 60 Hz |
| Output voltage regulation (line mode) | +/- 3% |
| Output voltage regulation (Economy line mode) | +/- 10% |
| Output voltage regulation (Battery mode) | +/- 3% |
| Built-in UPS output receptacles | 8 5-15/20R outlet(s); 2 L6-20R outlet(s); 2 L6-30R outlet(s) |
| Output circuit breaker | 20A branch rated breakers (x4) protect 2 5-15/20R outlets each, 20A double pole breakers (x2) protect one L6-20R each, L6-30R outlets are unbreakered |
| Output AC waveform (AC mode) | Sine wave |
| Output AC waveform (battery mode) | Pure Sine wave |
| INPUT | |
| Rated input current (at maximum load) | 24A |
| Nominal Input Voltage(s) Supported | 208V AC / 120V AC (4 wire split single phase); 240V AC /120V AC (4 wire split single phase) |
| UPS input connection type | L14-30P |
| UPS input connection description | 4 wire split-phase input (L1, L2, N, G) |
| UPS Input cord length (ft.) | 10 |
| UPS Input cord length (m) | 3 |
| Recommended Electrical Service | 30A 208/120V Split Phase |
| Input cord length (m) | 3 |
| BATTERY | |
| Full load runtime (minutes) | 8 min. (4200w) |
| Half load runtime (minutes) | 20 min. (2100w) |
| Expandable battery runtime | Supports extended runtime with optional external battery packs |

| switch featured on the detachable PDU allows for complete removal of the | , | |
|--|--|--|
| rate (included batteries) Replacement battery cartridge (internal UPS battery replacement) Battery Access Front panel battery access door Battery replacement description Hot-swappable, user replaceable batteries VOLTAGE REGULATION Voltage regulation description Online, double-conversion power conditioning description Overvoltage correction 3% output voltage regulation during overvoltages to 140 (measured L1-N : undervoltage correction 2% output voltage regulation during undervoltages to 65 (measured L1-N : necessary correction but the standard provided and the standard provided and the standard provided and the standard provided provided and the standard provided | , | |
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| switch featured on the detachable PDU allows for complete removal of the disrupting power to connected loads. Battery Charge level switch allows the charge rate when external battery packs are added. SURGE / NOISE SUPPRESSION UPS AC Instantaneous | | |
| UPS AC Instantaneous | 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 external battery packs are added. | |
| | | |
| response time | | |
| EMI / RFI AC noise yes suppression | | |
| AC suppression response time Instantaneous | | |
| PHYSICAL | | |
| Installation form factors supported with included accessories 4 post 19 inch rackmount (mounting rail kit included) | | |
| Installation form factors supported with optional accessories 2 post rackmount (2POSTRMKITWM); Tower (2-9USTAND) | | |
| Primary form factor Rackmount | | |

| UPS / Power Module dimensions in primary form factor (height x width x depth / inches) | 7 x 17.5 x 30.8 |
|--|---|
| UPS / Power Module dimensions in primary form factor (height x width x depth / cm) | 17.8 x 44.4 x 78.1 |
| Installed whole system maximum rack depth (inches) | 30.8 |
| Installed whole system maximum rack depth (cm) | 78.1 |
| Rack Height | 4U |
| Secondary form factor | Tower (requires 2-9USTAND) |
| UPS / Power Module weight (lbs) | 149.6 |
| UPS / Power Module weight (kg) | 67.9 |
| UPS dimensions details | 4U UPS with internal batteries |
| UPS Shipping dimensions (height x width x depth / inches) | 13.2 x 37 x 23 |
| UPS Shipping dimensions (height x width x depth / cm) | 33.7 x 94 x 58.4 |
| Shipping weight (lbs) | 189.2 |
| Shipping weight (kg) | 85.9 |
| Cooling method | Fan |
| UPS housing material | Steel |
| 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) | 1586.7 |
| Battery mode BTU / hr. (full load) | 1412.3 |
| Operating Elevation (ft.) | 0-3000m (0 to 10,000 ft.) |
| | |

| Audible Noise | 60 dBA at front side 1 meter |
|--|---|
| Operating Elevation (m) | 0-3000 m |
| COMMUNICATIONS | |
| Communications interface | USB (HID enabled); DB9 Serial; Contact closure; EPO (emergency power off); Slot for SNMP/Web interface |
| Network monitoring port description | RS232 and contact closure communications are supported on one DB9 port |
| PowerAlert software | Included |
| Communications cable | USB and DB9 cabling included |
| LINE / BATTERY TRAI | NSFER |
| Transfer time | No transfer time (0 ms.) in online, double-conversion mode |
| Low voltage transfer to battery power (setpoint) | 65V (L1-N:L2-N) |
| High voltage transfer to battery power (setpoint) | 140V (L1-N:L2-N) |
| SPECIAL FEATURES | |
| Cold Start (startup in battery mode during a power failure) | Cold-start operation supported |
| High availability UPS features | Automatic inverter bypass; Manual bypass switch; Detachable hot-swap PDU; Hot swappable UPS power module; 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); Meets FCC Part 15 Category A (EMI) |
| WARRANTY | |
| Product Warranty Period (Worldwide) | 2-year limited warranty |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico) | \$250,000 Ultimate Lifetime Insurance |

Related Items

Optional Products

| Related Model | Description | Qty. |
|----------------|--|------|
| 2-9USTAND | Enables Tower Placement of Rackmount UPS Systems | 1 |
| AS400CABLEKIT2 | Power Management Tools - UPS Communication Cable Kit for System i / AS400 / iSeries Servers | 1 |
| SNMPWEBCARD | For remote monitoring and control via SNMP, Web, or Telnet. | 1 |
| ENVIROSENSE | Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.) | 1 |

| SUPDM56HW | SUPDM56HW - UPS Accessory - Hardwire PDU Module | 1 |
|-----------------|---|---|
| BP192V557C-1PH | External battery pack for use with select Tripp Lite UPS Systems | 1 |
| BP192V787C-1PH | External battery pack for use with select Tripp Lite UPS Systems | 1 |
| BP192V1037C-1PH | External battery pack for use with select Tripp Lite UPS Systems | 1 |
| BP192V1407C-1PH | External battery pack for use with select Tripp Lite UPS Systems | 1 |
| DTEL2 | Network Surge Suppressor - Essential protection for data and communication lines | 1 |
| DCATV | Network Surge Suppressor - Essential protection for TV/VCR coaxial lines | 1 |
| DNET1 | Network Surge Suppressor - Essential protection for data and communication lines | 1 |
| SUPDMB568HW | SUPDMB568HW - UPS Accessory - Hardwire PDU Module | 1 |
| WEXT3-SU6000 | 3-Year Extended Warranty - For SU6000 models | 1 |
| WEXT5-SU6000 | 5-Year Extended Warranty - For SU6000 models | 1 |
| BP192V12-3U | BP192V12-3U - External Battery Pack for UPS System | 1 |
| MODBUSCARD | For remote monitoring and control via MODBUS protocol | 1 |
| 2POSTRMKITHD | Enables 2-Post Rackmount Installation of 3U and Larger UPS, Transformer and Battery Pack Components | 1 |

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=3184.

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