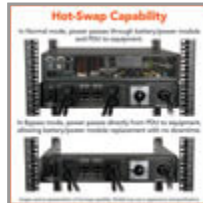


SmartOnline 208/240, 230V 6kVA 5.4kW Double-Conversion UPS, 4U Rack/Tower, Extended Run, Network Card Options, USB, DB9 Serial, Bypass Switch, C19

MODEL NUMBER: SU6000RT4UHVG



Description

The SU6000RT4UHVG 6000VA/5400W on-line, double-conversion UPS system offers complete power protection for critical server, network and telecommunications equipment in a single 4U rack/tower compatible housing. Full-time active power conditioning provides clean, continuous dual-conversion AC output free of voltage fluctuations, power interruptions and line noise. Fault-tolerant auto-bypass prevents unexpected service interruptions during UPS overload or internal fault conditions. Detachable back panel PDU with manual bypass switch supports hot-swappable whole UPS replacement with no interruption to connected equipment. Single all-in-one rack / tower housing installs in only 4U with a maximum installed depth of only 20.7 inches (526 millimeters). Maintains full-time sine wave output within 2% of selectable 200/208/220/230/240V nominal during brownouts as low as 100V and overvoltages as high as 300V. Expandable runtime is supported with optional BP192V12-3U external battery packs. Battery independent restart ensures automatic UPS power-up without user interaction after lengthy power outages, even when batteries are expired and require replacement. Double-conversion operation converts raw input from AC to DC, then re-synthesizes output power back to perfect sine wave AC 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 significantly reduces BTU heat output and operating energy costs. Network-grade AC surge and noise suppression. Supports detailed monitoring of equipment load levels, self-test data and utility power conditions via built-in RS-232 and USB interfaces. Optional network management card options available. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and macOS. PowerAlert monitoring software offers detailed site power and UPS updates with support for safe auto-shutdown of connected systems as UPS batteries become depleted. Supports Emergency Power Off (EPO) via built-in interface. front-panel LEDs and LCD readout with scroll controls support front-panel visual monitoring of all major UPS for a variety of control options to support advanced UPS settings and configurations. LED / LCD display panel rotates for viewing in rack-mount or tower configurations. Hardwire input and four C19 outlets. Support for optional North American and International cordsets. External battery packs are field replaceable and hot swappable.

Features

- SU6000RT4UHVG 6000VA / 6kVA / 5400 watt on-line, double-conversion UPS system in a single 4U rack/tower compatible housing (output is limited to 4992 watts when used at 208V with L6-30P input plug)
- Full-time active power conditioning maintains clean, continuous dual-conversion AC output free of voltage fluctuations, power interruptions and line noise

Highlights

- 6000VA / 6kVA / 5400W on-line double-conversion 4U rack/tower UPS, Sine Wave
- Included maintenance bypass switch enables live replacement of UPS with zero downtime
- Extended runtime options, Interactive LCD interface, Economy-mode option, 0.9 power factor
- Add optional WEBCARDLX with latest version of PADM20 for enhanced remote management
- Hardwire 200-240V 50/60Hz input; C19 outlets; Configurable for 200/208/220/230/240V 50/60Hz output

Package Includes

- SU6000RT4UHVPM Hot-swappable UPS Power Module
- SUPDMB6KIEC Detachable PDU with Maintenance Bypass Switch
- 1 x 6-ft. USB Cable
- 1 x 6-ft. DB9 Cable
- 4-Post Rackmount Hardware



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- Fault tolerant electronic bypass maintains utility output during a variety of UPS fault conditions
- Detachable back panel PDU contains hardwire input line cord connection, output receptacles and manual bypass switch to support hot-swappable whole UPS replacement with no interruption to connected equipment
- Hardwire input and 4 C19 output receptacles
- Included rail kit supports 4U 19-inch rack-mount installation in 4-post racks
- Optional 2POSTRMKITHD supports installation in 2-post 19-inch racks (1 required for SU6000RT4UHVG)
- Optional 2-9USTAND supports upright tower placement (1 required for SU6000RT4UHVG)
- Maximum installed rack depth of only 20.7 in. / 52.6cm
- Maintains full-time sine wave output within 2% of selected 200/208/220/230/240V nominal in double conversion mode
- Corrects brownouts to 156V at full load (100V at 50% load or less)
- Corrects overvoltages to 290V at full load (300V at 90% load or less)
- Supports 50/60 Hz operation for worldwide frequency compatibility
- Double-conversion operation offers full-time AC to DC, then DC to AC conversion to maintain perfectly regulated 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
- High efficiency ECONOMY MODE operation significantly reduces BTU heat output and operating energy costs
- Network-grade AC surge and noise suppression
- Supports detailed monitoring of equipment load levels, self-test data and utility power conditions via built-in RS-232, USB and network management card options
- Compatible with UPS management card options TLNETCARD, WEBCARDLX, SNMPWEBCARD, MODBUSCARD and RELAYIOCARD
- Optional WEBCARDLX (sold separately) with the latest version of PowerAlert Device Manager firmware (PADM20) provides enhanced remote management capabilities
- PADM20 and PowerAlert Element Manager (PAEM) form a powerful tool for expanding maintenance functions in large installations, including firmware update checks and backup and restoration of device configurations
- Optional RELAYIOMINI interface module offers three configurable hard contact closure outputs for custom event notification (requires removal of USB interface module)
- HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and macOS
- USB & Serial ports enable data-saving unattended shutdown when used with PowerAlert software, available via FREE download from tripplite.eaton.com/products/power-alert
- Front panel LEDs and LCD readout with scroll controls support front-panel visual monitoring of all major UPS functions with support for a variety of control options to support advanced UPS settings and configurations
- LED/LCD display panel rotates for viewing in rack-mount or tower configurations
- Supports Emergency Power Off (EPO) via built-in interface
- Battery independent restart ensures automatic UPS power-up without user interaction after lengthy power outages, even when batteries are expired and require replacement
- BP192V12-3U external battery packs are field replaceable and hot swappable
- Intelligent battery management system with temperature-compensated charging extends battery life
- Some external battery configurations require the use of External Battery Configuration Software (see manual)
- Frequency conversion mode enables conversion of 60 Hz to 50Hz or 50Hz to 60 Hz (no de-rating)

Specifications

| OVERVIEW | |
|---|--|
| UPC Code | 037332157232 |
| UPS Type | On-Line |
| INPUT | |
| Input Phase | Single-Phase |
| Rated input current (Maximum Load) | 31.9A (200V), 30.6A (208V), 29A (220V), 27.7A (230V), 26.6A (240V) |
| Nominal Input Voltage(s) Supported | 200V AC; 208V AC; 220V AC; 230V AC; 240V AC |
| Nominal Input Voltage Description | Factory configured to 208V |
| UPS Input Connection Type | Hardwire |
| UPS Input Connection Description | Supports North American 208/240V input (L1,L2,G) or International 230/220/240V (L,N,PE) input wiring; Optional SU30ACORD offers NEMA L6-30P input |
| Recommended Electrical Service | 40A (200/208v); 30-32A (220/230/240v) |
| OUTPUT | |
| Output Capacity (VA) | 6000 |
| Output Capacity (kVA) | 6 |
| Output Capacity (Watts) | 5400 |
| Output Capacity (kW) | 5.4 |
| Output Capacity Details | Output capacity de-rates to 4992 watts when used at 208V with optional L6-30P line cord; Supports up to 105% load continuously in double conversion mode, 106 to 125% for 1 minute, 126% to 150% for 30 seconds; Loads over 150% trigger immediate bypass mode operation to support loads directly from mains power; Double conversion mode is automatically restored as the overload is cleared |
| Power Factor | 0,9 |
| Crest Factor | 3:1 |
| Nominal Voltage Details | Voltage selection via front panel LCD interface |
| Frequency Compatibility | 50 / 60 Hz |
| Frequency Compatibility Details | Output frequency matches input nominal on startup; Frequency conversion mode enable conversion of 60Hz to 50Hz or 50Hz to 60Hz (no de-rating) |
| Output Voltage Regulation (Line Mode) | +/- 2% |
| Output Voltage Regulation (Economy Line Mode) | +/- 10% |
| Output Voltage Regulation (Battery Mode) | +/- 2% |
| Output Receptacle Details | Output receptacle and input connections are mounted on a detachable PDU backplate with bypass switch to enable hot-swappable power module replacement |
| Output Circuit Breakers | Two 20A breakers protect 2 C19 outlets each |
| Output AC Waveform (AC Mode) | Pure Sine wave |
| Output AC Waveform (Battery Mode) | Pure Sine wave |

| | |
|--|--|
| Nominal Output Voltage(s) Supported | 200V; 208V; 220V; 230V; 240V |
| Output Receptacles | (4) C19 |
| Individually Controllable Load Banks | No |
| BATTERY | |
| Battery Type | Valve Regulated Lead Acid (VRLA) |
| Runtime Full Load (min.) | 2 min. (5400W) |
| Runtime Half Load (min.) | 8.5 min. (2700W) |
| Expandable Runtime | Yes |
| External Battery Pack Compatibility | BP192V12-3U BP192V5RT2U (limit 1); BP192V787C-1PH |
| DC System Voltage (VDC) | 192 |
| Battery Recharge Rate (Included Batteries) | 6 hours from 10% to 90% (typical, full load discharge) |
| Battery Access | Front panel battery access door |
| Internal UPS Replacement Battery Cartridge | RBC5-192 |
| Battery Replacement Description | Hot-swappable, user replaceable internal batteries |
| VOLTAGE REGULATION | |
| Voltage Regulation Description | Online, double-conversion power conditioning |
| Overvoltage Correction | Corrects overvoltages as high as 300V (<90% load) and 280V (full load) |
| Undervoltage Correction | Corrects undervoltages as low as 100 (<50% load) and 155V (full load); derates linearly |
| USER INTERFACE, ALERTS & CONTROLS | |
| 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 |
| 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. |
| Alarm Cancel Operation | Alarm cancel switch |
| Audible Alarm | Unique audible alarms for all major UPS, environmental and power conditions (see manual) |
| 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 |
| SURGE / NOISE SUPPRESSION | |
| UPS AC Suppression Joule Rating | 2595 |
| UPS AC Suppression Response Time | Instantaneous |
| EMI / RFI AC Noise Suppression | Yes |



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| PHYSICAL | |
|---|--|
| Primary Form Factor | Rackmount |
| Rack Height | 4U |
| Cooling Method | Fans |
| Included Mounting Accessory Description | Includes 4 post rackmount installation accessories |
| Installation Form Factors Supported with Included Accessories | 4 post 19 inch rackmount |
| Maximum Device Depth (cm) | 52.58 |
| Maximum Device Depth (in.) | 20.7 |
| Maximum Device Depth (mm) | 526 |
| Minimum Required Rack Depth (cm) | 60.96 |
| Minimum Required Rack Depth (inches) | 24 |
| Minimum Required Rack Depth with External Battery Pack (cm) | 74 |
| Minimum Required Rack Depth with External Battery Pack (in.) | 29 |
| Minimum Required Rack Depth without External Battery Pack (cm) | 62 |
| Minimum Required Rack Depth without External Battery Pack (in.) | 24.25 |
| Primary UPS Depth (mm) | 525 |
| Primary UPS Height (mm) | 174 |
| Primary UPS Width (mm) | 445 |
| Shipping Dimensions (hwd / in.) | 30.00 x 34.00 x 24.00 |
| Shipping Dimensions (hwd / cm) | 76.20 x 86.36 x 60.96 |
| Shipping Weight (lbs.) | 190.00 |
| Shipping Weight (kg) | 86.18 |
| UPS Housing Material | Steel |
| UPS Power Module Dimensions (hwd, cm) | 17.40 x 44.45 x 52.50 |
| UPS Power Module Dimensions (hwd, in.) | 6.85 x 17.5 x 20.67 |
| UPS Power Module Weight (kg) | 48.99 |
| UPS Power Module Weight (lbs.) | 108 |
| Unit Dimensions (hwd / in.) | 6.850 x 17.500 x 20.670 |
| Unit Weight (lbs.) | 116.200 |
| Unit Weight (kg) | 52.71 |
| ENVIRONMENTAL | |

| | |
|--|------------------------------|
| Operating Temperature Range | 32° to 104°F (0° to 40°C) |
| Storage Temperature Range | 5° to 122°F (-15° to 50°C) |
| Relative Humidity | 0 to 95%, non-condensing |
| AC Mode BTU / Hr. (Full Load) | 1767 |
| AC Economy Mode BTU / Hr. (Full Load) | 768 |
| AC Mode Efficiency Rating (100% Load) | 90% |
| AC Economy Mode Efficiency Rating (100% Load) | 96% |
| Online Mode Heat Dissipation (BTU/Hr) @ Full Load | 1767 |
| Battery Mode Heat Dissipation (BTU/Hr) @ Full Load | 2279 |
| Operating Elevation | 0-6562 ft. (0-2000 m) |
| Audible Noise | 60 dBA at front side 1 meter |

COMMUNICATIONS

| | |
|-------------------------------------|--|
| Network Management Cards | TLNETCARD WEBCARDLXE MODBUSCARD RELAYIOCARD |
| Network Monitoring Port Description | Additional contact closure support with optional RELAYIOCARD and RELAYIOMINI interface cards. RELAYIOMINI installation requires removal of panel containing USB ports |
| PowerAlert Software | For local monitoring via the UPS's built-in communication ports, download PowerAlert software at https://tripplite.eaton.com/products/power-alert |
| Communications Cable | USB, DB9 serial and EPO cables included |
| WatchDog Compatibility | Yes |
| Network Management Card Description | Network management card optional |
| Communications Interface | DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface; USB (HID enabled) |

LINE / BATTERY TRANSFER

| | |
|---|---|
| Transfer Time | No transfer time (0 ms.) in online, double-conversion mode |
| Transfer Time (Economy Mode) | 8 ms. typical power failure response in optional economy mode |
| Low Voltage Transfer to Battery Power (Setpoint) | 156V (full load) / 100V (50% load or less, derates linearly) |
| High Voltage Transfer to Battery Power (Setpoint) | 280V (full load) / 300V (90% load or less) |

FEATURES & SPECIFICATIONS

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|---|--------------------------------|
| Cold Start (Startup in Battery Mode During a Power Failure) | Cold-start operation supported |
|---|--------------------------------|



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| High Availability UPS Features | Auto Probe Monitoring (requires WEBCARDLXE); Automatic inverter bypass; Hot swappable batteries; Hot swappable UPS power module; Manual bypass switch; Remote management; Surge/noise protection; Zero transfer time |
| APPLICATIONS | |
| UPS Applications | Mission Critical Applications |
| STANDARDS & COMPLIANCE | |
| Product Certifications | CSA (Canada); UL 1778 |
| Product Compliance | RoHS; CE (Europe); FCC Part 15 Class A (USA) |
| WARRANTY & SUPPORT | |
| Product Warranty Period (Worldwide) | 2-year limited warranty |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico) | \$250,000 & Ultimate Lifetime Insurance |

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