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SmartOnline 200-240V 12kVA 10.8kW Double-Conversion UPS, N+1, 8U, Extended Run, Network Card Slot, USB, DB9, Bypass, Hardwire

MODEL NUMBER: SU12KRT4UHW







Description

Tripp Lite SU12KRT4UHW 12,000VA / 12Kva / 10,800 watt online, double-conversion UPS system offers complete power protection for critical server, network and telecommunications equipment in an 8U rack/tower configuration. This system delivers complete N+1 redundancy when used at loads up to 6kVA, and non-redundant operation at loads between 6 and 12kVA. Fault-tolerant auto-bypass prevents unexpected service interruptions during UPS overload or internal fault conditions. Included parallel PDU with manual bypass switching enables hot-swappable replacement of all major UPS system components in both N+1 and combined operating modes. Enhanced availability, fault tolerance and simple hot-swap replacement options make this UPS ideal for advanced networking applications in data centers, computer rooms, network closets and rugged industrial locations.

Features

- Tripp Lite SU12KRT4UHW 12kVA, 12,000VA / 10,800 watt on-line, double-conversion UPS system in 8U total rack/tower configuration
- Unique configuration offers 12kVA non-redundant operation and automatic N+1 redundancy at load levels of 6kVA and under
- Included Parallel PDU with manual bypass switch enables hot-swap replacement of power modules at any supported load level
- · Hardwire input and output connections
- Maintains sine wave output within 2% of selectable 200/208/220/230/240V nominal
- Supports 50/60Hz operation for worldwide frequency compatibility
- Expandable runtime with optional external battery packs
- Some external battery configurations require the use of Tripp Lite's External Battery Configuration

Highlights

- 12kVA / 12,000VA / 10,800 watt on-line double-conversion 8U rack/tower UPS
- 200/208/220/230/240V +/-2%
 50/60Hz output, Economy mode option
- Hot-swap power & battery modules, N+1 fault tolerance at loads up to 6kVA
- USB, RS232, EPO ports, Slot for Network Management Card options
- Front panel LEDs, Detailed LCD monitoring and control screen
- Expandable runtime with optional external battery packs

Package Includes

- 2 SU6000RT4UHVPM UPS
 Power Modules
- SUPDMB12KHW Detachable
 PDU with manual bypass switch
- 4 post compatible rack rail kit (2 sets)
- USB, DB9 and EPO cables



Software (see manual)

- · Intelligent battery management system with temperature-compensated charging extends battery life
- · Battery independent restart
- Highly efficient economy mode option
- Compatible with Tripp Lite UPS management card options TLNETCARD, WEBCARDLX, SNMPWEBCARD, MODBUSCARD and RELAYIOCARD
- Optional RELAYIOMINI interface modules available (requires removal of USB interface module)
- Applications utilizing the optional network communications card require two SNMPWEBCARD accessories (install one per included power module)
- HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X
- USB & Serial ports enable data-saving unattended shutdown when used with Tripp Lite's PowerAlert software, available via FREE download from www.tripplite.com/poweralert
- Optional 2POSTRMKITHD supports installation in 2 post 19 inch racks (2 required)
- Optional 2-9USTAND supports upright tower placement (1 required)
- Supports Emergency Power Off (EPO) via built-in interface
- Front panel LEDs and LCD readout with scroll controls
- LED / LCD display panel rotates for viewing in rackmount or tower configurations
- External battery packs are field replaceable and hot swappable
- Frequency conversion mode enables conversion of 60Hz to 50Hz or 50Hz to 60Hz (no de-rating)
- \$250,000 Ultimate Lifetime Insurance (U.S., Canada, and Puerto Rico only)

Specifications

| ОИТРИТ | |
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| Output Volt Amp Capacity (VA) | 12000 |
| Output kVA Capacity (kVA) | 12 |
| Output Watt Capacity (Watts) | 10800 |
| Output kW Capacity (kW) | 11 |
| Output Capacity Details | 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 load levels are reduced to 95% or less |
| Power Factor | 0,9 |
| Crest Factor | 3:1 |
| Nominal Output Voltage(s) Supported | 200V; 208V; 220V; 230V; 240V |
| Nominal Voltage Details | Voltage selection via front panel LCD interface |
| Frequency Compatibility | 50 / 60 Hz; Supports 50 to 60 Hz and 60 to 50 Hz conversion |



| Frequency Compatibility Details | Output frequency matches input nominal on startup; Frequency conversion mode enables 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 Receptacles | Hardwire |
| Output Receptacle Details | Supports North American 208/240V* output (L1,L2,G) and International 230/220/240V (L,N,PE) hardwire output; *For 120V output with 208/240V (L1,L2,G) input wiring, use optional SU6000XFMR2U transformer |
| Output AC Waveform (AC Mode) | Pure Sine wave |
| Output AC Waveform (Battery Mode) | Pure Sine wave |
| INPUT | |
| Rated input current (Maximum Load) | 63.8A (200V), 61.2A (208V), 58A (220V), 55.4A (230V), 53.2A (240V) |
| Nominal Input Voltage(s) Supported | 200V AC; 208V AC; 220V AC; 230V AC; 240V AC |
| UPS Input Connection Type | Hardwire |
| UPS Input Connection Description | Supports North American 208/240V input (L1,L2,G) and International 230/220/240V (L,N,PE) input wiring |
| Recommended Electrical Service | 70A |
| Input Phase | Single-Phase |
| BATTERY | |
| Full Load Runtime (min.) | 2 minutes (10,800 watts) |
| Half Load Runtime (min.) | 8.5 minutes (5400 watts) |
| Expandable Battery Runtime | Runtime is expandable with external battery packs |
| External Battery Pack Compatibility | BP192V12-3U; BP192V557C-1PH; BP192V787C-1PH; BP192V1037C-1PH; BP192V1407C-1PH">BP192V1407C-1PH |
| Expandable Runtime Description | For best results, add external batteries in multiples of two so that both included 6kVA power modules have an equal number and type of connected battery packs |
| DC System Voltage (VDC) | 192 |
| Battery Recharge Rate (Included Batteries) | Less than 6 hours from 10% to 90% (typical, full load discharge) |
| Internal UPS Replacement Battery Cartridge | Each of the two included 6kVA power modules contain one RBC5-192 /a> internal replacement battery cartridge |
| Battery Access | Front panel battery access door |
| Battery Replacement Description | Hot-swappable, user replaceable internal battery cartridges and external battery packs |
| Expandable Runtime | Yes |





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| Voltage Regulation Description | +/-2% output voltage regulation in standard online, double-conversion mode |
| 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 & CON | TROLS |
| 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 (see manual) |
| 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 Response Time | Instantaneous |
| EMI / RFI AC Noise Suppression | Yes |
| | |
| PHYSICAL | |
| Included Mounting Accessory Description | Includes 4 post mounting accessories for each included component |
| Installation Form Factors Supported with Optional Accessories | 2 post rackmount (2POSTRMKITHD); Tower (2-9USTAND) |
| Optional Mounting Accessory Notes | Qty 2 2POSTRMKITHD required for 2 post rackmount installation of all included components |
| Primary Form Factor | Rackmount |
| UPS Power Module Dimensions (hwd, in.) | 7 x 18 x 21 |
| UPS Power Module Dimensions (hwd, cm) | 17.78 x 45.72 x 53.34 |
| Rack Height (U Spaces) | 8 |
| Maximum Device Depth (in.) | 24 |
| Minimum Required Rack Depth (inches) | 35 |
| Maximum Device Depth (cm) | 60.96 |
| Minimum Required Rack Depth (cm) | 88.90 |
| UPS Power Module Weight (lbs.) | 108 |
| UPS Power Module Weight (kg) | 48.99 |
| UPS Dimensions Details | Includes two 4U UPS/power modules plus SUPDMB12HW detachable parallel bypass PDU; UPS Power Module Dimensions are for one of the two included UPS/power modules; MAXIMUM DEVICE DEPTH specification refers to the whole UPS installed depth with bypass PDU installed |



| Shipping Dimensions (hwd / in.) | 41.000 x 24.000 x 34.000 |
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| Shipping Dimensions (hwd / cm) | 104.14 x 60.96 x 86.36 |
| Shipping Weight (lbs.) | 342.0000 |
| Shipping Weight (kg) | 155.13 |
| Cooling Method | Fans |
| UPS Housing Material | Steel |
| Maximum Device Depth (mm) | 6,096 |
| Primary UPS Height (mm) | 1,778 |
| Primary UPS Width (mm) | 4,572 |
| Primary UPS Depth (mm) | 5,334 |
| 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) | 3534 |
| AC Economy Mode BTU / Hr. (Full Load) | 1535 |
| Battery Mode BTU / Hr. (Full Load) | 4558 |
| AC Mode Efficiency Rating (100% Load) | 90% |
| AC Economy Mode Efficiency Rating (100% Load) | 96% |
| 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; EPO (emergency power off); Slot for SNMP/Web interface |
| Network Management Cards | SNMPWEBCARD; TLNETCARD; WEBCARDLX; MODBUSCARD; RELAYIOCARD |
| Network Monitoring Port Description | Applications utilizing any supported network management card option, require the use of two network cards of the same-model (install one card per included UPS power module); RELAYIOMINI installation requires removal of pane containing USB ports on each included UPS power module |
| PowerAlert Software | For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert |
| Communications Cable | USB, DB9 serial and EPO cables included |
| WatchDog Compatibility | Yes |





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| Transfer Time | No transfer time (0 ms.) in online, double-conversion mode |
| Transfer Time (Economy Mode) | 8 milliseconds typical 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) |
| SPECIAL FEATURES | |
| Cold Start (Startup in Battery Mode During a Power Failure) | Cold-start operation supported |
| High Availability UPS Features | Automatic inverter bypass; Hot swappable batteries; Hot swappable UPS power module; Manual bypass switch |
| Green Energy-Saving Features | High efficiency economy mode operation; Support for daily startup and shutoff; Schedulable daily hours of economy mode operation |
| CERTIFICATIONS | |
| UPS Certifications | Tested to UL1778 (USA); Tested to CSA (Canada); Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances) |
| UPS Certification Details | IEC 61000-4-5 1995 B Surge Immunity |
| WARRANTY | |
| Product Warranty Period (Worldwide) | 2-year limited warranty |

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