

# SmartOnline 240/208/120V 8kVA 5.6kW On-Line Double-Conversion UPS, Extended Run, SNMP, Webcard, 4U Rack/Tower, Split-Phase input, Bypass Switch

MODEL NUMBER: **SU8000RT4U**



## Description

Tripp Lite 8kVA SmartOnline Hot-Swappable Modular Rack/Tower UPS offers 8000VA on-line, double-conversion UPS support 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 and two post rackmount installation supported with optional accessories. Maintains 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 external battery packs. Converts raw input from AC to DC, then resynthesizes output power 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. Highly efficient operation in optional economy mode setting, saving BTU heat output and energy costs. Network-grade AC surge and noise suppression. Network management interfaces include combination DB9 RS-232 enabled and dry contact serial port, enhanced USB port and SNMPWEBCARD slot. 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 utility power conditions via all 3 network interfaces. Includes PowerAlert monitoring software and complete cabling. Supports Emergency Power Off (EPO) via built-in 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. Split phase 4 conductor hardwire input. UPS supported outlets include two L6-30R, two L6-20R and 4 low voltage 5-15/20R. Hardwire output is also supported. Hardwire connections and outlets are mounted on a detachable backplate with manual bypass switch to enable hot-swappable UPS replacement without powering off connected equipment. Internal batteries and optional external battery packs are field replaceable and hot swappable. Attractive all-black color scheme. \$250,000 Ultimate Lifetime Insurance (U.S., Canada, and Puerto Rico only).

## Features

- True online, double-conversion UPS provides pure, full-time sine wave AC output free of surges, voltage fluctuations and line noise
- 8000VA/5600 watt output power capacity with dual voltage output of 208/120 or 240/120V

## Highlights

- 8000VA / 8kVA / 5600W on-line double-conversion UPS
- 208/120V or 240/120V +/-3% output at 60Hz
- Included maintenance bypass switch enables live replacement of UPS with zero downtime
- 4U Rack/Tower compatible, Hot-swap power and battery modules
- USB, RS232 & EPO ports, support for SNMP/WEB card options
- Front panel LEDs with detailed LCD monitoring and control screen
- Expandable runtime with optional external battery packs
- Hardwire input (4 wire), L6-30R, L6-20R, 5-15/20R & Hardwire outputs

## Package Includes

- SU8000RT4U Smart Online UPS
- SUPDM8K Detachable PDU with Manual Bypass Switch
- PowerAlert software and complete cabling
- 4 post rackmount installation brackets



- 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
- Hardwire input/output connections and output receptacles are mounted on a detachable backplate with manual bypass switch to enable hot-swappable UPS replacement without powering off connected equipment
- 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 12/5 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. DB9 port supports RS-232 and dry contact messaging. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X.
- 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
- Built-in Emergency Power Off (EPO) interface with cable
- Includes hardwire output and 8 output receptacles (2 L6-30R, 2 L6-20R, 4 NEMA 5-15/20R), all of which are available for simultaneous use
- Split phase, 4 conductor hardwire connection (featured on included detachable PDU).
- 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
- Fault tolerant electronic bypass maintains utility output during a variety of UPS fault conditions
- \$250,000 Ultimate Lifetime Insurance (U.S., Canada, and Puerto Rico only)

## Specifications

| SELECTOR      |             |
|---------------|-------------|
| Selector Type | UPS SYSTEMS |
| General Info  |             |
| Product Group | UPS SYSTEMS |
| TAA Compliant | No          |
| OVERVIEW      |             |
| UPS Family    | SmartOnline |
| UPS Type      | On-Line     |
| OUTPUT        |             |



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|                                               |                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output Capacity Details                       | 8,000VA / 5600W (240V), 7200VA / 5600W (208V); Supports up to 105% load continuously in double conversion mode, 106 to 125% for 3 minutes, 126 to 150% for 30 seconds; Loads over 150% trigger immediate bypass mode operation to support equipment directly from mains power; Double conversion mode is automatically restored as the overload is cleared |
| Output Volt Amp Capacity (VA)                 | 8000                                                                                                                                                                                                                                                                                                                                                       |
| Output kVA Capacity (kVA)                     | 8                                                                                                                                                                                                                                                                                                                                                          |
| Output Watt Capacity (Watts)                  | 5600                                                                                                                                                                                                                                                                                                                                                       |
| Output kW Capacity (kW)                       | 5.6                                                                                                                                                                                                                                                                                                                                                        |
| Power Factor                                  | 0.7                                                                                                                                                                                                                                                                                                                                                        |
| Crest Factor                                  | 3:1                                                                                                                                                                                                                                                                                                                                                        |
| Nominal Output Voltage(s) Supported           | 120V; 208V; 240V                                                                                                                                                                                                                                                                                                                                           |
| Nominal Voltage Details                       | 240/120V or 208/120V split phase output                                                                                                                                                                                                                                                                                                                    |
| Frequency Compatibility                       | 60 Hz                                                                                                                                                                                                                                                                                                                                                      |
| Frequency Compatibility Details               | Output frequency regulation +/- 0.05Hz (free running)                                                                                                                                                                                                                                                                                                      |
| Output Voltage Regulation (Line Mode)         | +/- 3%                                                                                                                                                                                                                                                                                                                                                     |
| Output Voltage Regulation (Economy Line Mode) | +/- 10%                                                                                                                                                                                                                                                                                                                                                    |
| Output Voltage Regulation (Battery Mode)      | +/- 3%                                                                                                                                                                                                                                                                                                                                                     |
| Output Receptacles                            | (4) 5-15/20R; (2) L6-20R; (2) L6-30R; Hardwire                                                                                                                                                                                                                                                                                                             |
| Output Receptacle Details                     | Supports 208/120V or 240/120V hardwire output (L1, L2, N, G)                                                                                                                                                                                                                                                                                               |
| Output Circuit Breakers                       | 20A branch rated breakers (x4) protect 1 5-15/20R outlet each, 20A double pole breakers (x2) protect one L6-20R each, L6-30R outlets are unbreakered                                                                                                                                                                                                       |
| Output AC Waveform (AC Mode)                  | Pure Sine wave                                                                                                                                                                                                                                                                                                                                             |
| Output AC Waveform (Battery Mode)             | Pure Sine wave                                                                                                                                                                                                                                                                                                                                             |
| <b>INPUT</b>                                  |                                                                                                                                                                                                                                                                                                                                                            |
| Rated input current (Maximum Load)            | 34A                                                                                                                                                                                                                                                                                                                                                        |
| 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                     | Hardwire                                                                                                                                                                                                                                                                                                                                                   |
| UPS Input Connection Description              | 4 wire split-phase input (L1, L2, N, G)                                                                                                                                                                                                                                                                                                                    |
| Recommended Electrical Service                | 40A 208/120V or 240/120V Split Phase                                                                                                                                                                                                                                                                                                                       |
| Input Phase                                   | Single-Phase                                                                                                                                                                                                                                                                                                                                               |
| <b>BATTERY</b>                                |                                                                                                                                                                                                                                                                                                                                                            |
| Full Load Runtime (min.)                      | 5 min. (5600w)                                                                                                                                                                                                                                                                                                                                             |
| Half Load Runtime (min.)                      | 12 min. (2800w)                                                                                                                                                                                                                                                                                                                                            |



|                                                               |                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Expandable Battery Runtime                                    | Supports extended runtime with optional external battery packs                                                                                                                                                                                          |
| External Battery Pack Compatibility                           | BP192V1037C-1PH ; BP192V12-3U ; BP192V1407C-1PH ; BP192V557C-1PH ; BP192V787C-1PH ; BP192V5RT2U (limit 1)                                                                                                                                               |
| DC System Voltage (VDC)                                       | 192                                                                                                                                                                                                                                                     |
| Battery Recharge Rate (Included Batteries)                    | Less than 6 hours from 10% to 80% (typical, full load discharge)                                                                                                                                                                                        |
| Internal UPS Replacement Battery Cartridge                    | RBC9-192                                                                                                                                                                                                                                                |
| Battery Access                                                | Front panel battery access door                                                                                                                                                                                                                         |
| Battery Replacement Description                               | Hot-swappable, user replaceable batteries                                                                                                                                                                                                               |
| Expandable Runtime                                            | Yes                                                                                                                                                                                                                                                     |
| <b>VOLTAGE REGULATION</b>                                     |                                                                                                                                                                                                                                                         |
| Voltage Regulation Description                                | Online, double-conversion power conditioning                                                                                                                                                                                                            |
| Overvoltage Correction                                        | Corrects overvoltages to 140 (measured L1-N : L2-N)                                                                                                                                                                                                     |
| Undervoltage Correction                                       | Corrects undervoltages to 65 (measured L1-N : L2-N)                                                                                                                                                                                                     |
| <b>LEDS ALARMS &amp; SWITCHES</b>                             |                                                                                                                                                                                                                                                         |
| 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                                                                                    |
| 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                                                                                   |
| Audible Alarm                                                 | Unique audible alarms for all major UPS, environmental and power conditions (see manual)                                                                                                                                                                |
| Alarm Cancel Operation                                        | Alarm cancel switch                                                                                                                                                                                                                                     |
| 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 output power |
| <b>SURGE / NOISE SUPPRESSION</b>                              |                                                                                                                                                                                                                                                         |
| UPS AC Suppression Response Time                              | Instantaneous                                                                                                                                                                                                                                           |
| EMI / RFI AC Noise Suppression                                | Yes                                                                                                                                                                                                                                                     |
| AC Suppression Response Time                                  | Instantaneous                                                                                                                                                                                                                                           |
| <b>PHYSICAL</b>                                               |                                                                                                                                                                                                                                                         |
| Included Mounting Accessory Description                       | 4 post rackmount installation accessories included                                                                                                                                                                                                      |
| Installation Form Factors Supported with Optional Accessories | 2 post rackmount (2POSTRMKITHD); Tower (2-9USTAND)                                                                                                                                                                                                      |
| Primary Form Factor                                           | Rackmount                                                                                                                                                                                                                                               |



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|                                                 |                                                                                                                                       |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| UPS Power Module Dimensions (hwd, in.)          | 7 x 17.5 x 32.6                                                                                                                       |
| UPS Power Module Dimensions (hwd, cm)           | 17.8 x 44.4 x 82.7                                                                                                                    |
| Installed Whole System Maximum Rack Depth (in.) | 32.6                                                                                                                                  |
| Installed Whole System Maximum Rack Depth (cm)  | 82.7                                                                                                                                  |
| Rack Height (U Spaces)                          | 4                                                                                                                                     |
| UPS Power Module Weight (lbs.)                  | 177                                                                                                                                   |
| UPS Power Module Weight (kg)                    | 80.4                                                                                                                                  |
| UPS Dimensions Details                          | Installed Whole System Maximum Rack Depth refers to the installed depth with the included Bypass PDU attached to the UPS power module |
| UPS Shipping Dimensions (hwd / in.)             | 13 x 23 x 37                                                                                                                          |
| UPS Shipping Dimensions (hwd / cm)              | 33 x 58.4 x 94                                                                                                                        |
| Shipping Weight (lbs.)                          | 212                                                                                                                                   |
| Shipping Weight (kg)                            | 96.2                                                                                                                                  |
| Cooling Method                                  | Fans                                                                                                                                  |
| 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)         | 2353.3                                                     |
| AC Mode Efficiency Rating (100% Load) | 89%                                                        |
| 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 TRANSFER



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|                                                             |                                                                                                                                   |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 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)                                                                                                                  |
| <b>SPECIAL FEATURES</b>                                     |                                                                                                                                   |
| US & Canada Only Flag                                       | 0                                                                                                                                 |
| KVM Demo Flag                                               | 0                                                                                                                                 |
| Console Server Demo Flag                                    | 0                                                                                                                                 |
| 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 Energy-Saving Features                                | High efficiency economy mode operation; Schedulable daily hours of economy mode operation                                         |
| <b>CERTIFICATIONS</b>                                       |                                                                                                                                   |
| UPS Certifications                                          | Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category A (EMI)                        |
| <b>WARRANTY</b>                                             |                                                                                                                                   |
| Product Warranty Period (Worldwide)                         | 2-year limited warranty                                                                                                           |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico)  | \$250,000 <a href="#">Ultimate Lifetime Insurance</a>                                                                             |
| <b>APPLICATIONS</b>                                         |                                                                                                                                   |
| UPS Applications                                            | Network/Server; Hot-Swap; Eco Energy-Saving                                                                                       |

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