

## SmartPro 208 & 120V 5kVA 4kW Line-Interactive Sine Wave UPS, 6U, Extended Run, Network Card Options, USB, DB9

MODEL NUMBER: **SMART5000RT3U**



### Highlights

- 5kVA / 5000VA / 4000W line interactive 6U rack/tower UPS; Sine wave output
- 208 & 120V output during brownouts to 151V and overvoltages to 260V
- USB, Serial, EPO & slot for Network Management Card options
- Expandable runtime; 8 single-outlet switched output load banks
- NEMA L6-30P input; 10 5-15R, 2 5-15/20R, 1 L6-30R & 1 L14-30R outlets

### Package Includes

- SMART5000RT3U UPS System
- BP48V60RT3U battery pack
- USB & DB9 Serial cabling
- Mounting hardware
- Instruction manual

### Description

Tripp Lite's line-interactive SMART5000RT3U UPS System protects server, networking or telecommunications equipment from blackouts, voltage fluctuations and surges in a compact tower/rackmount housing. In rack configuration, the power module and battery pack occupy only 3 rack spaces (3U) each. Large capacity 5000VA/4000W power module converts raw 208V AC input to fully regulated dual output 208/120V voltage for simultaneous protection of both high- and low-voltage equipment loads. True sine wave output at all times offers guaranteed compatibility with all equipment types. Includes 14 outlets, 8 of which can be individually reset via software interface to selectively reboot remote equipment or shed less critical loads to extend battery runtime for more critical equipment. Battery support can be extended indefinitely with additional external 3U rackmount battery packs. Includes slot for internal Network Management Card option. Also includes two DB9 and two USB enhanced monitoring ports for unattended shutdown, remote control and monitoring of UPS system and power data.

### Features

- Large 5000VA/4000W output capacity with full-time sine wave output offers guaranteed compatibility with all equipment types
- High power density 5kVA power module and battery pack occupy only 3 rack spaces (3U) each (UPS and battery pack require 6U total installed)
- 38 min. half load runtime, expandable with multiple external battery packs BP48V24-2U (limit 1), BP48V60RT-3U (multi-pack compatible) and BP48V27-2US (multi-pack compatible)
- Line-interactive voltage regulation corrects severe brownouts and overvoltages without using battery power
- Dual voltage output is simultaneously compatible with both 208V and 120V equipment
- 14 total outlets (120V: 10 x 5-15R, 2 x 5-20R/208V: 1 x L6-30R, 1 x L14-30R)
- Diagnostic LEDs provide visual indication of 17 separate performance conditions
- 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](http://www.tripplite.com/poweralert)
- 4 built-in communications ports (2 x DB9, 2 x USB) for remote monitoring and unattended shutdown
- Compatible with Tripp Lite UPS management card options WEBCARDLX and SNMPWEBCARD
- 8 customized load management receptacles can be individually powered off and back on again via software interface to reboot remote equipment or perform "load shedding" of less critical loads to extend



battery runtime for the most critical equipment

- Emergency Power Off (EPO) interface for emergency shutoff in large facilities
- Hot-swappable/user replaceable external battery pack(s) allow on-site battery replacement without powering off connected equipment or removing the UPS from the rack
- Intelligent battery management system extends battery life
- Included UPS external battery pack ships fully assembled and ready for connection to the power module, no time consuming, connection of individual internal batteries by user is necessary

## Specifications

| OVERVIEW                                 |   |
|--|---|
| UPC Code                                 | 037332099242  |
| UPS Type                                 | Line-Interactive  |
| INPUT                                    |   |
| Rated input current (Maximum Load)       | 24A max. in factory L6-30P configuration; 27A max. when powered by 50A plug or hardwire input |
| Nominal Input Voltage(s) Supported       | 208V AC   |
| UPS Input Connection Type                | L6-30P  |
| Input Circuit Breakers                   | 30A double-pole   |
| UPS Input Cord Length (ft.)              | 10  |
| UPS Input Cord Length (m)                | 3.1   |
| Recommended Electrical Service           | 30A 208V  |
| Input Phase                              | Single-Phase  |
| OUTPUT                                   |   |
| Output Volt Amp Capacity (VA)            | 5000  |
| Output Capacity (kVA)                    | 5   |
| Output Watt Capacity (Watts)             | 4000  |
| Output kW Capacity (kW)                  | 4   |
| Output Capacity Details                  | Maximum output increases to 4800W when hardwire or user-supplied 50A rated input plug is used |
| Power Factor                             | 0.8   |
| Nominal Voltage Details                  | 208/120V nominal output in battery mode   |
| Frequency Compatibility                  | 60 Hz   |
| Output Voltage Regulation (Line Mode)    | 208 & 120V (-10% / +10%)  |
| Output Voltage Regulation (Battery Mode) | +/- 5%  |
| Load Management Receptacles              | Eight switchable single-outlet 5-15R load banks   |



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|--|--|
| Output Circuit Breakers                      | 15A branch rated (x3) - 2 breakers support 5 5-15R outlets each, one breaker supports 2 5-20R outlets, L6-30R and L14-30R outlets are unbreakered  |
| Output AC Waveform (AC Mode)                 | Sine wave  |
| Output AC Waveform (Battery Mode)            | Pure Sine wave   |
| Nominal Output Voltage(s) Supported          | 110V; 115V; 120V; 208V   |
| Output Receptacles                           | (10) 5-15R; (2) 5-15/20R; (1) L14-30R; (1) L6-30R  |
| Individually Controllable Load Banks         | Yes  |
| <b>BATTERY</b>                               |  |
| Battery Type                                 | Valve Regulated Lead Acid (VRLA)   |
| Full Load Runtime (min.)                     | 16 min. (4000w)  |
| Half Load Runtime (min.)                     | 38 min. (2000w)  |
| Expandable Battery Runtime                   | Extended runtime supported via optional external battery packs   |
| Expandable Runtime                           | Yes  |
| External Battery Pack Compatibility          | <a href="http://www.tripplite.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosure-DC-Cabling-select-UPS-Systems-BP48V24-2U">BP48V24-2U</a> (limit 1); <a href="http://www.tripplite.com/External-48V-3U-Rack-Tower-Battery-Pack-Enclosure-DC-Cabling-select-UPS-Systems-BP48V60RT-3U">BP48V60RT-3U</a> (multi-pack compatible); <a href="http://www.tripplite.com/External-48V-2U-Rack-Tower-Battery-Pack-for-UPS-Systems-BP48V27-2US">BP48V27-2US</a> (multi-pack compatible) |
| DC System Voltage (VDC)                      | 48   |
| Battery Recharge Rate (Included Batteries)   | Less than 4 hours from 10% to 90% (typical, full load discharge)   |
| Battery Replacement Description              | Hot-swappable, user replaceable batteries  |
| <b>VOLTAGE REGULATION</b>                    |  |
| Voltage Regulation Description               | Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 151 to 260  |
| Overvoltage Correction                       | Input voltages between 240V and 260 are reduced by 12%   |
| Undervoltage Correction                      | Input voltages between 180V and 199 are boosted by 12%   |
| Severe Undervoltage Correction               | Input voltages between 151V and 179 are boosted by 24%   |
| <b>USER INTERFACE, ALERTS &amp; CONTROLS</b> |  |
| Switches                                     | 2 Switches control off/on power status and alarm-cancel/self-test operation  |
| Alarm Cancel Operation                       | Power-fail alarm can be silenced using alarm-cancel switch; once silenced, alarm will re-sound to indicate low-battery status  |
| Audible Alarm                                | Audible alarm indicates power-failure, overload and low-battery conditions   |
| LED Indicators                               | 5 LEDs indicate line power, battery power, overload, voltage regulation and battery low/replace status   |
| <b>SURGE / NOISE SUPPRESSION</b>             |  |
| UPS AC Suppression Joule Rating              | 1020   |



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| UPS AC Suppression Response Time                                | Instantaneous  |
| EMI / RFI AC Noise Suppression                                  | Yes  |
| <b>PHYSICAL</b>   |  |
| Primary Form Factor   | Rackmount  |
| Cooling Method  | Fans   |
| Included Battery Pack Dimensions (hwd / in.)                    | 5.2 x 17.5 x 25  |
| Included Battery Pack Weight (lbs.)                             | 163  |
| Included Battery Pack Weight (kg)                               | 73.94  |
| Included Mounting Accessory Description                         | Set of two included 4POSTRAILKIT mounting brackets enables installation of UPS and Battery Pack in 4 post racks from 20.5 to 36 inches (521 to 914mm)  |
| Installation Form Factors Supported with Included Accessories   | 4 post 19 inch rackmount   |
| Installation Form Factors Supported with Optional Accessories   | 2 post rackmount ( <a href="http://www.tripplite.com/2-Post-Rack-Mount-Installation-Kit-3U-Larger-UPS-Transformer-Battery-Pack-Components~2POSTRMKITHD">2-Post-Rack-Mount-Installation-Kit-3U-Larger-UPS-Transformer-Battery-Pack-Components~2POSTRMKITHD</a> ); 4 post rackmount short-depth ( <a href="http://www.tripplite.com/4-Post-1U-Universal-Adjustable-Rack-Mount-Shelf-Kit-for-Wall-Mount-Racks~4POSTRAILKITWM">4-Post-1U-Universal-Adjustable-Rack-Mount-Shelf-Kit-for-Wall-Mount-Racks~4POSTRAILKITWM</a> ); Tower ( <a href="http://www.tripplite.com/2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND">2-9USTAND</a> ) |
| Minimum Required Rack Depth with External Battery Pack (cm)     | 75   |
| Minimum Required Rack Depth with External Battery Pack (in.)    | 29.5   |
| Minimum Required Rack Depth without External Battery Pack (cm)  | 72   |
| Minimum Required Rack Depth without External Battery Pack (in.) | 28.25  |
| Optional Mounting Accessory Notes                               | Optional <a href="http://www.tripplite.com/2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND">2-9USTAND</a> ; enables upright tower UPS placement (1 required); <a href="http://www.tripplite.com/2-Post-Rack-Mount-Installation-Kit-3U-Larger-UPS-Transformer-Battery-Pack-Components~2POSTRMKITHD">2POSTRMKITHD</a> ; enables 2-post rackmount installation (2 required); <a href="http://www.tripplite.com/4-Post-1U-Universal-Adjustable-Rack-Mount-Shelf-Kit-for-Wall-Mount-Racks~4POSTRAILKITWM">4POSTRAILKITWM</a> ; enables installation in 4-post short-depth racks from 14.5 to 23.5 inches (368 to 597mm, requires 2)       |
| Primary UPS Depth (mm)  | 572  |
| Primary UPS Height (mm)   | 132  |
| Primary UPS Width (mm)  | 445  |
| Rack Height   | 6U   |
| Shipping Dimensions (hwd / cm)                                  | 62.23 x 60.96 x 86.36  |
| Shipping Dimensions (hwd / in.)                                 | 24.50 x 24.00 x 34.00  |
| Shipping Weight (kg)  | 145.88   |
| Shipping Weight (lbs.)  | 321.62   |
| Unit Dimension Details  | Includes 3U UPS/power module and 3U external battery pack  |
| UPS Housing Material  | Steel  |



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| UPS Power Module Dimensions (hwd, cm)                       | 13.21 x 44.45 x 57.15  |
| UPS Power Module Dimensions (hwd, in.)                      | 5.2 x 17.5 x 22.5  |
| UPS Power Module Weight (kg)                                | 42.18  |
| UPS Power Module Weight (lbs.)                              | 93   |
| <b>ENVIRONMENTAL</b>  |  |
| 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   |
| Battery Mode BTU / Hr. (Full Load)                          | 1518   |
| AC Mode Efficiency Rating (100% Load)                       | 94%  |
| Audible Noise   | 45 dBA maximum, front side 1m  |
| <b>COMMUNICATIONS</b>                                       |  |
| Network Management Cards                                    | SNMPWEBCARD; <a href="http://www.tripplite.com/Web-Management-Accessory-Card-WEBCARDLX">WEBCARDLX</a>  |
| Network Monitoring Port Description                         | Supports detailed monitoring of UPS and site power conditions; 2 USB ports, 1 DB9 serial and 1 DB9 contact closure port (4 total)  |
| PowerAlert Software   | For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at <a href="https://www.tripplite.com/poweralert">https://www.tripplite.com/poweralert</a> |
| Communications Cable  | USB and DB9 cabling included   |
| WatchDog Compatibility                                      | Supports Watchdog application, OS and hard-reboot restart options for remote applications  |
| Network Management Card Description                         | Network management card optional   |
| Communications Interface                                    | Contact closure; DB9 Serial; USB   |
| <b>LINE / BATTERY TRANSFER</b>                              |  |
| Transfer Time   | 2-4 milliseconds   |
| Low Voltage Transfer to Battery Power (Setpoint)            | 151  |
| High Voltage Transfer to Battery Power (Setpoint)           | 260  |
| <b>FEATURES &amp; SPECIFICATIONS</b>                        |  |
| Grounding Lug   | Back panel grounding lug   |
| Cold Start (Startup in Battery Mode During a Power Failure) | Cold-start operation supported   |
| High Availability UPS Features                              | Automatic Voltage Regulation (AVR); Expandable battery backup; Hot swappable batteries; Sine wave output; Surge/noise protection   |



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| <b>STANDARDS &amp; COMPLIANCE</b>                          |  |
|--|--|
| UPS Certifications   | Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances); Tested to CSA (Canada); Tested to NOM (Mexico); Tested to UL1778 (USA)                       |
| <b>WARRANTY</b>  |  |
| Product Warranty Period (Worldwide)                        | 2-year warranty, 3 year with registration. Note: <a href="https://www.tripplite.com/support/product-warranty-registration">Registration is required</a> for 3-year warranty. |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico) | \$250,000 <a href="https://www.tripplite.com/support/insurance-policy">Ultimate Lifetime Insurance</a>   |

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