

SmartOnline 208/240V 5kVA 3.5kW Double-Conversion UPS, 5U Rack/Tower, Extended Run, Network Card Options, DB9 Serial

MODEL NUMBER: SU5000RT3UHV



Description

Tripp Lite 5kVA Smart Online RM UPS. 5000VA on-line, double-conversion UPS 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. 3U power module and 2U battery pack install in 5 rack spaces. Full-time sine wave output within 2% of selectable 200/208/220/230/240V AC. Corrects brownouts to 156V and overvoltages to 276V. Frequency regulation locks output power to 50/60Hz (+/-0.2%)/Expandable runtime with optional rackmount external battery packs. Double-conversion UPS 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. 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 2 DB9 ports and slot for network management card options. Supports simultaneous detailed monitoring of equipment load levels, self-test data and utility power conditions via all 3 network interfaces. PowerAlert monitoring software is available via free download. Emergency Power Off (EPO) interface. Front panel LEDs and LCD readout with scroll controls support visual monitoring of all major UPS functions. Audible alarm. Self test. 4-post rackmount accessories included; 2-9USTAND and 2POSTRMKITHD accessories available. L6-30P plug-in connection; built-in L6-30 & L6-20 outlets. Power Distribution Unit (PDU) options supported. Field-replaceable, hot-swappable external battery packs. 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
- 5000VA/3500 watt output power capacity compatible with 200-240V applications at 50/60 Hz

Highlights

- 5000VA / 5kVA / 3500 watt on-line double-conversion 5U rack/tower UPS
- 200/208/220/230/240V 50/60Hz output, high efficiency economy mode option
- Hot-swappable battery modules
- RS232 & EPO ports; slot for network management card options
- Front panel LEDs with detailed LCD monitoring and control screen
- Expandable runtime with optional external battery packs
- NEMA L6-30P input (3 wire); L6-30R & L6-20R outputs

Package Includes

- SU5000RT3UPM UPS Power Module
- BP240V5RT2U External Battery Pack
- DB9 Cable
- Mounting hardware to support each module in 4-post rackmount enclosures
- Warranty information
- Instruction manual

- 3U power module and 2U battery pack installs in any 19 inch rack enclosure using only 5 rack spaces
- Double 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
- 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
- Accepts input voltages between 156 and 276, regulating output within 2% of selected 200/208/220/230/240V nominal voltage
- Supports connected equipment during blackouts for 20/8 minutes at half/full load levels. Runtime is further expandable with optional external battery packs
- Intelligent battery management system extends battery life
- Network interfaces support simultaneous communications via 2 DB9 ports and slot for network management card options
- Compatible with Tripp Lite UPS management card options TLNETCARD, WEBCARDLX, SNMPWEBCARD, MODBUSCARD and RELAYIOCARD
- Serial port enables data-saving unattended shutdown when used with Tripp Lite's PowerAlert software, available via FREE download from tripplite.eaton.com/products/power-alert
- Built-in Emergency Power Off (EPO) interface with cable
- Includes 4 built-in output receptacles (2 L6-30R, 2 L6-20R)
- L6-30P input plug-in connection
- 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 2POSTRMKITHD supports 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
- \$250,000 Ultimate Lifetime Insurance (U.S., Canada, and Puerto Rico only)

Specifications

| OVERVIEW | |
|------------------------------------|---------------------------------------------|
| UPC Code | 037332122391 |
| UPS Type | On-Line |
| INPUT | |
| Input Phase | Single-Phase |
| Rated input current (Maximum Load) | 24A (208V), 21A (240V) |
| Nominal Input Voltage(s) Supported | 200V AC; 208V AC; 220V AC; 230V AC; 240V AC |
| UPS Input Connection Type | L6-30P |
| UPS Input Cord Length (ft.) | 10 |
| UPS Input Cord Length (m) | 3.1 |
| Recommended Electrical Service | 30A 208/240V |

| OUTPUT | |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output Capacity (VA) | 5000 |
| Output Capacity (kVA) | 5 |
| Output Capacity (Watts) | 3500 |
| Output Capacity (kW) | 3.5 |
| Output Capacity Details | Supports up to 102% load continuously in double conversion mode, 102 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 | 0.7 |
| 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 |
| Output Voltage Regulation (Line Mode) | +/- 2% |
| Output Voltage Regulation (Economy Line Mode) | +/- 10% |
| Output Voltage Regulation (Battery Mode) | +/- 2% |
| Output Circuit Breakers | 20A double-pole breaker protects L6-20R outlets, L6-30R outlets are unbreakered |
| Output AC Waveform (AC Mode) | Pure Sine wave |
| Output AC Waveform (Battery Mode) | Pure Sine wave |
| Nominal Output Voltage(s) Supported | 200V; 208V; 220V; 240V |
| Output Receptacles | (2) L6-20R; (2) L6-30R |
| Individually Controllable Load Banks | No |
| BATTERY | |
| Runtime Full Load (min.) | 8 min. (3500w) |
| Runtime Half Load (min.) | 20 min. (1750w) |
| Expandable Runtime | Yes |
| External Battery Pack Compatibility | BP240V10RT3U ; BP240V557C-1PH; BP240V787C-1PH ; BP240V1037C-1PH; BP240V1407C-1PH |
| DC System Voltage (VDC) | 240 |
| Battery Recharge Rate (Included Batteries) | Less than 6 hours from 10% to 80% (typical, full load discharge) |
| Battery Replacement Description | Hot-swappable, user replaceable batteries |

| VOLTAGE REGULATION | |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage Regulation Description | Online, double-conversion power conditioning |
| Overvoltage Correction | 2% output voltage regulation during overvoltages to 276 |
| Undervoltage Correction | 2% output voltage regulation during undervoltages to 156 |
| 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 (see manual) |
| Switches | 2 Switches control off/on power status and alarm-cancel/self-test operation; 2 additional switches support set and execute scrolling LCD functions |
| 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 | |
| Primary Form Factor | Rackmount |
| Rack Height | 5U |
| Cooling Method | Fan |
| Included Battery Pack Dimensions (hwd / in.) | 3.5 x 17.5 x 22.5 |
| Included Battery Pack Weight (lbs.) | 92 |
| Included Battery Pack Weight (kg) | 41.73 |
| Included Mounting Accessory Description | 2 sets of adjustable 4 post rack rails included |
| Installation Form Factors Supported with Optional Accessories | 2 post rackmount (2POSTRMKITHD); Tower (2-9USTAND); |
| Maximum Device Depth (cm) | 66.04 |
| Maximum Device Depth (in.) | 26 |
| Maximum Device Depth (mm) | 660 |
| Minimum Required Rack Depth (cm) | 83.82 |
| Minimum Required Rack Depth (inches) | 33 |

| LINE / BATTERY TRANSFER | |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Transfer Time | No transfer time (0 ms.) in online, double-conversion mode |
| Low Voltage Transfer to Battery Power (Setpoint) | 156 |
| High Voltage Transfer to Battery Power (Setpoint) | 276 |
| FEATURES & SPECIFICATIONS | |
| Cold Start (Startup in Battery Mode During a Power Failure) | Cold-start operation supported |
| High Availability UPS Features | Automatic inverter bypass; Hot swappable batteries |
| Green Energy-Saving Features | High efficiency economy mode operation; Schedulable daily hours of economy mode operation |
| WARRANTY & SUPPORT | |
| Product Warranty Period (Worldwide) | 2-year limited warranty |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico) | \$250,000 Ultimate Lifetime Insurance |