SmartOnline 208 & 120V 5kVA 3.5kW Double-Conversion UPS, 7U, Extended Run, Network Card Slot, DB9 Serial

MODEL NUMBER: **SU5000RT3U**

Highlights

- 5000VA / 5kVA / 3500W on-line double-conversion UPS
- 208/120V 60Hz output, high efficiency economy mode option
- 7U Rack/Tower compatible; Hot-swappable batteries
- 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 & 5-15/20R outputs

Package Includes

- SU5000RT3UPM UPS Power Module
- BP240V5RT2U Battery Pack
- SU5000XFMRT2U Step-down Transformer
- DB9 and EPO Cabling
- 4-post rackmount installation accessories
- Instruction manual

Description

Tripp Lite 5kVA Smart Online Rack / Tower UPS. 5000VA online, 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, 2U transformer module and 2U battery pack install in 7 rack spaces. Full-time sine wave output within 2% of selectable 208V and simultaneous 120V 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. Dual-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 UPS monitoring and auto shutdown software is available via free download. 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 output receptacles include two L6-30R, two L6-20R and twelve 5-15/20R. Power Distribution Unit (PDU) options supported. Field-replaceable, hot-swappable external battery packs.

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 with dual high/low voltage output compatible with 200-240V

and 120V applications simultaneously

- 3U power module, 2U transformer module and 2U battery pack installs in any 19 inch rack enclosure using only 7 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
- 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 208 - plus 120V 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 ports enable data-saving unattended shutdown when used with Tripp Lite's PowerAlert software, available via FREE download from www.tripplite.com/poweralert
- Built-in Emergency Power Off (EPO) interface with cable
- Includes 17 built-in output receptacles (3 L6-30R w/one L6-30R used for transformer connection, 2 L6-20R, 12 NEMA 5-15/20R)
- 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
- Fault tolerant electronic bypass maintains utility output during a variety of UPS fault conditions

Specifications

OVERVIEW	
UPC Code	037332123534
UPS Type	On-Line
INPUT	

Rated input current (Maximum Load)	24A (208V)
Nominal Input Voltage(s) Supported	208V AC
UPS Input Connection Type	L6-30P
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 kVA Capacity (kVA)	5
Output Watt Capacity (Watts)	3500
Output kW Capacity (kW)	3.5
Power Factor	0.7
Crest Factor	3:1
Nominal Voltage Details	This configuration requires the Power Module be set to 208V output voltage; Included step-down transformer supports 120V output
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 breakers (x4) on transformer module protect 3 5-15/20R outlets each, 20A breaker on power module 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
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
Nominal Output Voltage(s) Supported	120V; 208V
Output Receptacles	(12) 5-15/20R; (2) L6-20R; (2) L6-30R
Individually Controllable Load Banks	No

BATTERY	
Full Load Runtime (min.)	8 min. (3500w)
Half Load Runtime (min.)	20 min. (1750w)

Expandable Battery Runtime	Supports extended runtime with optional external battery packs
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
Expandable Runtime	Yes
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 130
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
ISOLATION	
Output Isolation Transformer	120V 5-15/20R outlets include load isolation transfomer protection
PHYSICAL	
Cooling Method	Fan
Included Battery Pack Dimensions (hwd / in.)	3.5 x 17.5 x 22.5
Included Battery Pack Weight (kg)	41.73
Included Battery Pack Weight (lbs.)	92
Included Mounting Accessory Description	3 sets of adjustable 4 post rackmount installation 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
Optional Mounting Accessory Notes	3 sets of 2POSTRMKITHD required for 2 post rackmount installation of separate power module, transformer and battery pack
Primary Form Factor	Rackmount
Primary UPS Depth (mm)	660
Primary UPS Height (mm)	132
Primary UPS Width (mm)	445
Rack Height	7U
Shipping Dimensions (hwd / cm)	78.74 x 68.58 x 83.82
Shipping Dimensions (hwd / in.)	31.00 x 27.00 x 33.00
Shipping Weight (kg)	130.63
Shipping Weight (lbs.)	288.00
Stepdown Transformer Depth (mm)	533
Stepdown Transformer Dimensions (hwd / cm)	8.89 x 44.45 x 53.34
Stepdown Transformer Dimensions (hwd / in.)	3.5 x 17.5 x 21
Stepdown Transformer Height (mm)	89
Stepdown Transformer Weight (kg)	25.85
Stepdown Transformer Weight (lbs.)	57
Stepdown Transformer Width (mm)	445
Unit Dimension Details	Includes 3U UPS/power module, 2U stepdown transformer and 2U external battery pack
UPS Housing Material	Steel
UPS Power Module Dimensions (hwd, cm)	13.21 x 44.45 x 66.04
UPS Power Module Dimensions (hwd, in.)	5.2 x 17.5 x 26
UPS Power Module Weight (kg)	19.05
UPS Power Module Weight (lbs.)	42
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)	1327
Battery Mode BTU / Hr. (Full Load)	1327
AC Mode Efficiency Rating (100% Load)	90%
AC Economy Mode Efficiency Rating (100% Load)	94%

COMMUNICATIONS

Network Management Cards	SNMPWEBCARD ; TLNETCARD ; WEBCARDLX ; MODBUSCARD ; RELAYIOCARD
Network Monitoring Port Description	RS232 and contact closure communications are located on two separate DB9 ports
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	DB9 cable included
Communications Interface	DB9 Serial; Contact closure; EPO (emergency power off); Slot for SNMP/Web interface

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

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
Green Energy-Saving Features	High efficiency economy mode operation; Schedulable daily hours of economy mode operation

STANDARDS & COMPLIANCE

UPS Certifications	Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Tested to GOST (Russia); Tested to SASO (Saudi Arabia); Meets FCC Part 15 Category A (EMI)

WARRANTY

Product Warranty Period (Worldwide)	2-year limited warranty

Connected Equipment Insurance (U.S., Canada & Puerto Rico)	$250,000 Ultimate Lifetime Insurance