

SmartPro 208 & 120V 5kVA 3.75kW Line-Interactive Sine Wave UPS, 3U, Extended Run, Network Card Options, USB, DB9

MODEL NUMBER: **SMART5000XFMRXL**



Description

Tripp Lite 5kVA Smart RM UPS. 5000VA line-interactive UPS for server, network and telecommunications equipment. UPS with internal batteries requires 3 rack spaces installed. Accepts 208V nominal input voltage. Simultaneous 208 & 120V output. Corrects brownouts and overvoltages from 167V to 260V. Sine wave output. Maintains battery-derived AC output during blackouts and severe voltage fluctuations. Expandable runtime with optional external battery packs. 11 output receptacles. NEMA L6-30P input connection with support for user-supplied 50A or hardwire input. Network-grade AC surge and noise suppression. Network management interfaces include USB, DB9 serial and slot for Network Management Card options. Supports simultaneous detailed monitoring of equipment load levels, self-test data and utility power conditions via all network interfaces simultaneously. PowerAlert UPS monitoring software is available via free download. Emergency Power Off (EPO) interface. Integrated 8-bank switched PDU. 3-stage metered current monitoring and battery charge LEDs. Utility power and voltage regulation LEDs. Audible alarm. Self-test. 4-post rack mounting accessories included; 2-9USTAND and 2POSTRMKITHD accessories available. Field-replaceable, hot-swappable internal batteries and battery packs.

Features

- 5000VA/3750 watt max. output power capacity compatible with North American 208V/60Hz input voltage
- Supports full output at either 208V or 120V
- 3U rack/tower UPS installs in standard 19 inch rack enclosures with an installed depth of only 25 inches / 63.5cm
- Protects sensitive networking equipment from blackouts, voltage fluctuations and transient surges
- Line Interactive Automatic Voltage Regulation (AVR) corrects 208V nominal input from 167 to 260VAC

Highlights

- 5kVA / 5000VA line interactive 3U rack/tower UPS; Sine wave output
- 208 & 120V output during brownouts to 167 and overvoltages to 260V
- USB, Serial, EPO & Network Management Card options
- 3U all-in-one chassis; 8 single-outlet switched load banks; 97% efficiency
- NEMA L6-30P input; 8 NEMA 5-15/20R, 2 L6-20R & 1 L6-30R outlets

Package Includes

- SMART 5000XFMRXL UPS System
- USB & DB9 Serial Cabling
- Mounting hardware for 4-post rackmount installation
- Instruction manual



back to usable 208/120V levels without consuming battery power

- AVR circuits boost undervoltages by 12% and reduce overvoltages by 12%
- Network interfaces support simultaneous communications via USB, DB9 serial and slot for Network Management Card option
- Compatible with Tripp Lite UPS management card options TLNETCARD, WEBCARDLX and SNMPWEBCARD
- 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
- Built-in Emergency Power Off (EPO) interface with cable
- Sine wave output in AC and battery mode
- Expandable runtime with optional BP48V24-2U (limit 1), BP48V60RT-3U (multi-pack compatible) and BP48V27-2US (multi-pack compatible) external battery packs
- NOTE: BP48V24-2U must either be (1) installed in a recessed position inside the rack so the DC cable can reach the BP connector on the UPS or (2) be installed in a standard front-mount position with a 1 foot 48VDC extension cable BPEXT481
- Half/full load runtime of 20/8.5 minutes with internal batteries
- Intelligent battery management system extends battery life
- Includes 11 output receptacles (2 L6-20, 1 L6-30 & 8 NEMA 5-15/20R)
- Ships with installed L6-30P input plug, supports user supplied 50A replacement plug or hardwire input
- Integrated 8 bank switched PDU enables remote outlet management for load shedding or remote reboot of individual devices
- 3 stage metered LEDs offer current monitoring and battery charge level
- Mains power and voltage regulation LEDs offer at-a-glance power status information
- Front panel switches support self-test and alarm cancel functions
- Included adjustable mounting rails support installation in 4 post 19 inch racks
- UPS ships fully assembled in full compliance with DOT regulations, no time consuming connection of internal batteries by user is required
- Supports upright tower placement with optional 2-9USTAND accessory

Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	5000
Output kVA Capacity (kVA)	5
Output Watt Capacity (Watts)	3750
Output kW Capacity (kW)	3.75



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Power Factor	0.75
Nominal Output Voltage(s) Supported	110V; 115V; 120V; 208V
Nominal Voltage Details	208/120V nominal output in battery mode
Frequency Compatibility	60 Hz
Output Voltage Regulation (Line Mode)	208 & 120V (+/- 10%)
Output Voltage Regulation (Battery Mode)	+/- 5%
Output Receptacles	(8) 5-15/20R; (2) L6-20R; (1) L6-30R
Load Management Receptacles	Eight switchable single-outlet 5-15/20R load banks
Output Circuit Breakers	20A double pole breaker supports L6-20R outlets, 20A branch rated breaker (x2) supports 4 5-15/20R outlets each, L6-30R outlet is unbreakered
Output AC Waveform (AC Mode)	Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
INPUT	
Rated input current (Maximum Load)	24A
Nominal Input Voltage(s) Supported	208V AC
UPS Input Connection Type	L6-30P
UPS Input Cord Length (ft.)	10
UPS Input Cord Length (m)	3.0
Recommended Electrical Service	30A 208V
Input Phase	Single-Phase
BATTERY	
Full Load Runtime (min.)	8.5 min. (3750w)
Half Load Runtime (min.)	20 min. (1875w)
Expandable Battery Runtime	Extended runtime supported via optional external battery packs
External Battery Pack Compatibility	<u>BP48V24-2U</u> (limit 1); <u>BP48V60RT-3U</u> (multi-pack compatible); <u>BP48V27-2US</u> (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)
Internal UPS Replacement Battery Cartridge	<u>RBC94-3U</u> (quantity 3)
Battery Access	Front panel battery access door
Battery Replacement Description	Hot-swappable, user replaceable batteries



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Expandable Runtime	Yes
VOLTAGE REGULATION	
Voltage Regulation Description	Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 167 to 260
Overvoltage Correction	Input voltages between 228 and 260 are reduced by 12%
Undervoltage Correction	Input voltages between 167 and 194 are boosted by 12%
USER INTERFACE, ALERTS & CONTROLS	
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
SURGE / NOISE SUPPRESSION	
UPS AC Suppression Joule Rating	1020
UPS AC Suppression Response Time	Instantaneous
EMI / RFI AC Noise Suppression	Yes
PHYSICAL	
Installation Form Factors Supported with Included Accessories	4 post 19 inch rackmount
Installation Form Factors Supported with Optional Accessories	2 post rackmount (2POSTRMKITHD); Tower (2-9USTAND)
Primary Form Factor	Rackmount
UPS Power Module Dimensions (hwd, in.)	5.2 x 17.5 x 25
UPS Power Module Dimensions (hwd, cm)	13.21 x 44.45 x 63.50
Rack Height (U Spaces)	3
Minimum Required Rack Depth (inches)	32
Minimum Required Rack Depth (cm)	81.28
UPS Power Module Weight (lbs.)	143.3
UPS Power Module Weight (kg)	65.00
UPS Shipping Dimensions (hwd / in.)	11.2 x 23 x 31.5
UPS Shipping Dimensions (hwd / cm)	28.45 x 58.42 x 80.01



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Shipping Weight (lbs.)	181.9
Shipping Weight (kg)	82.6
Cooling Method	Fan
UPS Housing Material	Steel
Minimum Required Rack Depth (mm)	813
Primary UPS Height (mm)	132
Primary UPS Width (mm)	444
Primary UPS Depth (mm)	635
Shipping Height (mm)	284
Shipping Width (mm)	584
Shipping Depth (mm)	800
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)	366
Battery Mode BTU / Hr. (Full Load)	1423
AC Mode Efficiency Rating (100% Load)	97%
COMMUNICATIONS	
Communications Interface	USB; DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface
Network Management Cards	SNMPWEBCARD; TLNETCARD; WEBCARDLX
Network Monitoring Port Description	Supports detailed monitoring of UPS and site power conditions
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 and DB9 cabling included
WatchDog Compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
LINE / BATTERY TRANSFER	
Transfer Time	7 ms (AC to Battery); 1 ms (Battery to AC) typical
Low Voltage Transfer to Battery Power (Setpoint)	167
High Voltage Transfer to Battery Power (Setpoint)	260



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SPECIAL FEATURES	
Grounding Lug	Back panel grounding lug
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Hot swappable batteries
Green Energy-Saving Features	Greater than 95% efficiency - GREEN UPS; Individually controllable load banks
CERTIFICATIONS	
UPS Certifications	Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category A (EMI)
WARRANTY	
Product Warranty Period (Worldwide)	2-year warranty, 3 year with registration. Note: <u>Registration is required</u> for 3-year warranty.
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$250,000 <u>Ultimate Lifetime Insurance</u>

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