

SmartPro 5kVA Line Interactive Sine Wave UPS, Extended-run & SNMPWEBCARD options, 3U Rack/Tower, USB, Serial, EPO, 208+120V

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 SNMPWEBCARD slot. Supports simultaneous detailed monitoring of equipment load levels, self-test data and utility power conditions via all network interfaces simultaneously. Includes PowerAlert monitoring software and complete cabling. 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 2POSTRMKITWM 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 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 SNMPWEBCARD slot
- 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, internal UPS temperature, AC line frequency, timed inverter shutoff, activate self-test and load bank output power control

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 & optional SNMP/Web card monitoring 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
- PowerAlert Software and Cabling
- Mounting hardware for 4-post rackmount installation
- Instruction manual



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- 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
- Half/full load runtime of 20/8.5 minutes with internal batteries
- 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 2 post rackmount installation with optional 2POSTRMKIT accessory
- 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	3.8
Output power factor	0.8
Nominal Output Voltage(s) Supported	120V; 208V
Frequency compatibility	60 Hz
Output voltage regulation (line mode)	208 & 120V (+/- 10%)
Output voltage regulation (Battery mode)	+/- 5%
Built-in UPS output receptacles	8 5-15/20R outlet(s); 2 L6-20R outlet(s); 1 L6-30R outlet(s)
Built-in controllable switched load banks	Eight switchable single-outlet 5-15/20R load banks
Output circuit breaker	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 (at maximum load)	27A



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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
Recommended Electrical Service	30A 208V
Phase	Single-Phase
BATTERY	
Full load runtime (minutes)	8.5 min. (3750w)
Half load runtime (minutes)	20 min. (1875w)
Expandable battery runtime	Extended runtime supported via optional external battery packs
External battery pack compatibility	BP48V24-2U (limit 1); BP48V60RT-3U (multi-pack compatible); BP48V27-2US (multi-pack compatible)
DC system voltage (VDC)	48
Battery recharge rate (included batteries)	Less than 4 hours from 10% to 90%
Replacement battery cartridge (internal UPS battery replacement)	RBC94-3U (quantity 3)
Battery Access	Front panel battery access door
Battery replacement description	Hot-swappable, user replaceable batteries
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%
LEDS ALARMS & SWITCHES	
LED Indicators	5 LEDs indicate line power, battery power, overload, voltage regulation and battery low/replace status
Alarms	Audible alarm indicates power-failure, overload and low-battery conditions
Alarm cancel operation	Power-fail alarm can be silenced using alarm-cancel switch; once silenced, alarm will re-sound to indicate low-battery status
Switches	2 Switches control off/on power status and alarm-cancel/self-test operation
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 (2POSTRMKITWM); Tower (2-9USTAND)
Primary form factor	Rackmount
UPS / Power Module dimensions in primary form factor (height x width x depth / inches)	5.2 x 17.5 x 25
UPS / Power Module dimensions in primary form factor (height x width x depth / cm)	13.3 x 44.4 x 63.5
Rack Height	3U
Secondary form factor	Tower (requires 2-9USTAND)
UPS / Power Module weight (lbs)	143.3
UPS / Power Module weight (kg)	65.1
UPS Shipping dimensions (height x width x depth / inches)	11.2 x 23 x 31.5
UPS Shipping dimensions (height x width x depth / cm)	28.6 x 58.4 x 80
Shipping weight (lbs)	181.9
Shipping weight (kg)	82.6
Cooling method	Fan
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)	671.1
Battery mode BTU / hr. (full load)	1416.7
AC mode efficiency rating (100% load)	97%
COMMUNICATIONS	
Communications interface	USB; DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface
Network monitoring port description	Supports detailed monitoring of UPS and site power conditions
PowerAlert software	Included
Communications cable	USB and DB9 cabling included
WatchDog compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications



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LINE / BATTERY TRANSFER	
Transfer time	2-4 milliseconds
Low voltage transfer to battery power (setpoint)	167
High voltage transfer to battery power (setpoint)	260
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 & high efficiency 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: Registration is required for 3-year warranty.
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$250,000 Ultimate Lifetime Insurance

Related Items

Optional Products

Model Number	Description	Qty.
WEXT3-5000TEL	3-Year Extended Warranty - For SMART5000TEL3U only	1
WEXT5-5000TEL	5-Year Extended Warranty - For SMART5000TEL3U only	1
SNMPWEBCARD	For remote monitoring and control via SNMP, Web, or Telnet.	1
ENVIROSENSE	Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.)	1
MODBUSCARD	For remote monitoring and control via MODBUS protocol	1
BP48V27-2US	BP48V27-2US - 2U External 48V Rack/Tower Battery pack for select Tripp Lite UPS Systems	1
BP48V24-2U	BP48V24-2U - 2U External 48V Rack/Tower Battery Pack for select Tripp Lite UPS Systems	1
BP48V60RT-3U	External Battery Pack and Cable. 3U, Expandable, Blue 2-Point Connector	1
2-9USTAND	Enables Tower Placement of Rackmount UPS Systems	1
2POSTRMKITHD	Enables 2-Post Rackmount Installation of 3U and Larger UPS, Transformer and Battery Pack Components	1



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PDU1220	Basic PDU / Power Distribution Unit - Safe, reliable power distribution for critical networking equipment	1
PS7224-20	Tripp Lite Power Strip - Multiple outlets wherever you need them	1
PDU12IEC	Basic PDU / Power Distribution Unit - Safe, reliable power distribution for critical networking equipment	1
PDU2430	Basic PDU / Power Distribution Unit - Safe, reliable power distribution for critical networking equipment	1

More information, including related products, owner's manuals, and additional technical specifications, can be found online at:

<http://www.tripplite.com/sku/SMART5000XFMRXL>.

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