

## SmartPro 120V 2.2kVA 1.9kW Line-Interactive Sine Wave UPS, 4U Short Depth, Extended Run, Network Card Options, USB, DB9

MODEL NUMBER: **SMART2200CRMXL**



### Description

Tripp Lite's SmartPro Compact Rackmount Uninterruptible Power Supply (UPS) offers line interactive voltage regulation, network grade surge suppression and long lasting battery support for critical network hardware during blackouts and extended power failures. Special reduced-depth housing, larger internal batteries, higher rated wattage and included 2 post rackmount installation hardware makes these systems ideal for network and telecom wiring closets and other limited-space installations. 97% line power mode efficiency saves operating costs over less efficient UPS types. Runtime is expandable with optional [BP48V24-2U](#) (limit 1), [BP48V48RT4U](#) (multi-pack compatible) and [BP48V27-2US](#) (multi-pack compatible) reduced-depth external battery packs.

SMART2200CRMXL 4U rackmount 2200VA/1900 watt UPS offers battery-derived sine wave AC output during power failures and extreme voltage variations. Line interactive Automatic Voltage Regulation (AVR) provides two levels of voltage boost during brownouts and one level of voltage cut during overvoltage conditions to maintain regulated 120V nominal output over an input range of 83-145V. Includes NEMA 5-20P input plug, NEMA 5-15R and 5-15/20R output receptacles. Network management interfaces support simultaneous communications via USB port, [DB9](#) serial port and optional network management accessory card slot. HID-compliant USB interface enables full integration with built-in power management and auto shutdown features of Windows and Mac OS X. Supports detailed monitoring of equipment load levels, self-test data and utility power conditions via all 3 network interfaces at once. PowerAlert monitoring software is available via free download. Emergency Power Off (EPO) interface. Integrated 3-bank programmable PDU switching supports load shedding and remote-reboot of up to 3 individual connected devices. 3-stage metered current monitoring and battery charge status LEDs. Utility power and voltage regulation LEDs. Audible alarm. Self-test. 2-post rackmount accessories included; [2-9U STAND](#) tower stands. Field-replaceable, hot-swappable internal batteries and external battery packs. Attractive all-black

### Highlights

- 2.2kVA / 2200VA / 1900W line interactive 4U rack/tower UPS, Sine Wave
- 120V output, Corrects brownouts and overvoltages from 83V to 145V
- 0.9 Power Factor, Front panel status LEDs
- Extended runtime options up to 1900W
- 2 post mounting accessories, reduced depth housing
- 97% line-mode efficiency, 3 switched load banks
- USB, RS232, EPO and slot for Network Card options
- 120V NEMA 5-20P input, 4 NEMA 5-15R & 4 NEMA 5-15/20R outlets

### Package Includes

- SmartPro Compact 4U Rackmount UPS system
- 2 post rackmount installation brackets
- USB and Serial Cabling
- Owner's manual



color scheme.

## Features

- Tripp Lite's SmartPro Compact Rackmount Uninterruptible Power Supply (UPS) offers line interactive voltage regulation, network grade surge suppression and long lasting battery support for critical network hardware during blackouts and extended power failures
- Special reduced-depth housing, larger internal batteries, higher rated wattage and included 2 post rackmount installation hardware makes these systems ideal for network and telecom wiring closets and other limited-space installations
- Runtime is expandable with optional [BP48V24-2U](#) (limit 1), [BP48V48RT4U](#) (multi-pack compatible) and [BP48V27-2US](#) (multi-pack compatible) reduced-depth external battery packs
- Some external battery configurations require the use of Tripp Lite's External Battery Configurator (see manual)
- Intelligent battery management system extends battery life
- SMART2200CRMXL 4U rackmount 2200VA/1900 watt UPS offers battery-derived sine wave AC output during power failures and extreme voltage variations
- Line interactive Automatic Voltage Regulation (AVR) provides two levels of voltage boost during brownouts and one level of voltage cut during overvoltage conditions to maintain regulated 120V nominal output over an input range of 83-145V
- Includes NEMA 5-20P input plug, NEMA 5-15R and 5-15/20R output receptacles
- Network management interfaces support simultaneous communications via USB port, [DB9](#) serial port and optional network management accessory card slot
- Compatible with Tripp Lite UPS management card options [WEBCARDLX](#), [SNMPWEBCARD](#) and [RELAYIOCARD](#)
- HID-compliant USB interface enables full integration with built-in power management and auto shutdown features of Windows and Mac OS X
- 97% efficiency in line power mode offers substantially lower operating costs than lower efficiency UPS types
- Supports detailed monitoring of equipment load levels, self-test data and utility power conditions via all 3 network interfaces at once
- 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)
- Emergency Power Off (EPO) interface
- Integrated 3-bank programmable PDU switching supports load shedding and remote-reboot of up to 3 individual connected devices
- 3-stage metered current monitoring and battery charge status LEDs; Utility power and voltage regulation LEDs; Audible alarm; Self-test
- 2-post rackmount accessories included; [2-9USTAND](#) tower stands available



**Tripp Lite**  
1111 W. 35th Street  
Chicago, IL 60609 USA  
Telephone: 773.869.1234  
[www.tripplite.com](http://www.tripplite.com)

- Field-replaceable, hot-swappable internal batteries and external battery packs
- Attractive all-black color scheme

## Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	2200
Output kVA Capacity (kVA)	2.2
Output Watt Capacity (Watts)	1900
Output kW Capacity (kW)	1.9
Power Factor	0.86
Nominal Output Voltage(s) Supported	110V; 115V; 120V
Nominal Voltage Details	120v nominal output in battery mode
Frequency Compatibility	60 Hz
Output Voltage Regulation (Line Mode)	-18%, +8%
Output Voltage Regulation (Battery Mode)	+/- 5%
Output Receptacles	(4) 5-15R; (4) 5-15/20R
Load Management Receptacles	Three switchable single-outlet 5-15R load banks
Output AC Waveform (AC Mode)	Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
INPUT	
Rated input current (Maximum Load)	16A
Nominal Input Voltage(s) Supported	120V AC
UPS Input Connection Type	5-20P
Input Circuit Breakers	20A
UPS Input Cord Length (ft.)	10
UPS Input Cord Length (m)	3.0
Recommended Electrical Service	20A 120V
Input Phase	Single-Phase
BATTERY	
Full Load Runtime (min.)	11 min. (1900w)



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Half Load Runtime (min.)	28 min. (950w)
Expandable Battery Runtime	Extended runtime supported via optional external battery packs
External Battery Pack Compatibility	<u>BP48V24-2U</u> (limit 1); <u>BP48V48RT4U</u> (multi-pack compatible); <u>BP48V27-2US</u> (multi-pack compatible)
DC System Voltage (VDC)	48
Battery Recharge Rate (Included Batteries)	Less than 3.6 hours from 10% to 90% (typical, full load discharge)
Internal UPS Replacement Battery Cartridge	<u>RBC94-2U</u> (quantity 2)
Battery Access	Front panel battery access door
Battery Replacement Description	Hot-swappable, user replaceable batteries
Expandable Runtime	Yes
<b>VOLTAGE REGULATION</b>	
Voltage Regulation Description	Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 83 to 145
Overvoltage Correction	Input voltages between 127 and 145 are reduced by 12%
Undervoltage Correction	Input voltages between 96 and 108 are boosted by 12%
Severe Undervoltage Correction	Input voltages between 83 and 95 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; rear panel protected switches support low/high charger settings
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	570
UPS AC Suppression Response Time	Instantaneous
EMI / RFI AC Noise Suppression	Yes
<b>PHYSICAL</b>	
Included Mounting Accessory Description	2 post rackmount installation accessories included
Installation Form Factors Supported with Included Accessories	2 post 19 inch rackmount
Installation Form Factors Supported with Optional Accessories	4 post rackmount ( <u>4POSTRAILKIT</u> ); Tower ( <u>2-9USTAND</u> )
Primary Form Factor	Rackmount



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UPS Power Module Dimensions (hwd, in.)	6.89 x 17.3 x 17.8
UPS Power Module Dimensions (hwd, cm)	17.50 x 43.94 x 45.21
Rack Height (U Spaces)	4
Minimum Required Rack Depth (inches)	24.8
Minimum Required Rack Depth (cm)	62.99
UPS Power Module Weight (lbs.)	100.3
UPS Power Module Weight (kg)	45.50
UPS Shipping Dimensions (hwd / in.)	12.8 x 23.3 x 22.8
UPS Shipping Dimensions (hwd / cm)	32.51 x 59.18 x 57.91
Shipping Weight (lbs.)	128.9
Shipping Weight (kg)	58.5
Cooling Method	Fan
UPS Housing Material	Steel
Minimum Required Rack Depth (mm)	630
Primary UPS Height (mm)	175
Primary UPS Width (mm)	439
Primary UPS Depth (mm)	452
Shipping Height (mm)	325
Shipping Width (mm)	592
Shipping Depth (mm)	579
<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
AC Mode BTU / Hr. (Full Load)	242
Battery Mode BTU / Hr. (Full Load)	885
AC Mode Efficiency Rating (100% Load)	97%
<b>COMMUNICATIONS</b>	
Communications Interface	USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface



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Network Management Cards	SNMPWEBCARD; WEBCARDLX; RELAYIOCARD
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 <a href="http://www.tripplite.com/poweralert">http://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
<b>LINE / BATTERY TRANSFER</b>	
Transfer Time	5 milliseconds
Low Voltage Transfer to Battery Power (Setpoint)	83
High Voltage Transfer to Battery Power (Setpoint)	145
<b>SPECIAL FEATURES</b>	
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Hot swappable batteries
<b>CERTIFICATIONS</b>	
UPS Certifications	Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category A (EMI)
<b>WARRANTY</b>	
Product Warranty Period (U.S. & Canada)	2-year warranty, 3 year with registration. Note: <u>Registration is required</u> for 3-year warranty.
Product Warranty Period (International)	2-year limited warranty
Product Warranty Period (Mexico)	2-year warranty, 3 year with registration. Note: <u>Registration is required</u> for 3-year warranty.
Product Warranty Period (Puerto Rico)	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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