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## Model #: SMART2200CRMXL

### SmartPro Line Interactive Compact Rackmount UPS System - Precision Protection for Network / Telecom Wiring Closets and Reduced Depth Installations

#### Highlights



- 2200VA / 2.2kVA line interactive 4U rack / tower UPS with reduced mounting depth of only 17.25 inches / high power factor 1900W capacity
- Maintains sine-wave 120V nominal output over an input range of 83 to 145V
- Network communications supported via USB port, serial port, SNMP/Web card slot and EPO interface
- Expandable runtime with optional external battery packs
- Input: NEMA 5-20P (120V 20A) / Output: 4 NEMA 5-15/20R, 4 NEMA 5-15R (120V)
- 2 year product warranty / \$250,000 [Ultimate Lifetime Insurance](#) (USA, Puerto Rico & Canada only)

#### 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 BP48V48RT4U and BP48V24-2U 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 SNMP/Web management accessory card slot. Optional SNMPWEBCARD offers remote management and control of the UPS via direct network connection. Additional ENVIROSENSE accessory, when used in conjunction with SNMPWEBCARD reports temperature, humidity and status of up to two directly connected contact closure sensors. 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. Includes PowerAlert monitoring software with USB and serial cables. 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 and UPSRMR11 4 post rackmount kit available. Field-replaceable, hot-swappable internal batteries and external battery packs. Attractive all-black color scheme. 2-year warranty and \$250,000 [connected equipment insurance](#); extended warranty and service contracts available.

#### Package Includes

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

## 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 BP48V48RT4U and BP48V24-2U 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 SNMP/Web management accessory card slot
- Optional SNMPWEBCARD offers remote management and control of the UPS via direct network connection
- Additional ENVIROSENSE accessory, when used in conjunction with SNMPWEBCARD reports temperature, humidity and status of up to two directly connected contact closure sensors
- 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
- Includes PowerAlert monitoring software with USB and serial cables
- 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 and UPSRMR11 4 post rackmount kit available
- Field-replaceable, hot-swappable internal batteries and external battery packs
- Attractive all-black color scheme
- 2-year warranty and \$250,000 [connected equipment insurance](#); extended warranty and service contracts available

## Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	2200
Output kVA capacity (kVA)	2.2
Output Watt Capacity (watts)	1900
Output kW capacity	1.9
Output power factor	0.9
Nominal Output Voltage(s) Supported	120V
Frequency compatibility	60 Hz
Output voltage regulation (line mode)	-18%, +8%
Output voltage regulation (Battery mode)	+/- 5%
Built-in UPS output receptacles	4 5-15R outlet(s); 4 5-15/20R outlet(s)
Built-in controllable switched load banks	Three switchable single-outlet 5-15R load banks

<b>Basic PDU options</b>	<a href="#">PDU1220</a> (1U / 13 5-15/20R outlets); <a href="#">PDUNV</a> (1U / 2 C19, 12 C13 outlets); <a href="#">PDUV20</a> (0U / 12 5-15/20R outlets); <a href="#">PDU40TDUAL</a> (0U / 40 5-15/20R outlets)
<b>Metered PDU options</b>	<a href="#">PDUMH20</a> (1U / 13 5-15/20R outlets); <a href="#">PDUMH20AT</a> (1U / 16 5-15/20R outlets)*; <a href="#">PDUMV20</a> (0U / 16 5-15/20R outlets); <a href="#">PDUMV40</a> (0U / 32 5-15/20R outlets)
<b>Switched PDU options</b>	<a href="#">PDUMH20ATNET</a> (1U / 16 5-15/20R outlets)*; <a href="#">PDUMV20NET</a> (0U / 24 5-15/20R outlets)
<b>External PDU redundancy options</b>	*Auto Transfer Switch features utilizing the secondary PDU input cord are compatible with Smart Online UPS models only
<b>Output AC waveform (AC mode)</b>	Sine wave
<b>Output AC waveform (battery mode)</b>	Sine wave
<b>INPUT</b>	
<b>Rated input current (at maximum load)</b>	16A
<b>Nominal Input Voltage(s) Supported</b>	120V AC
<b>UPS input connection type</b>	5-20P
<b>Input circuit breaker</b>	20A
<b>UPS Input cord length (ft.)</b>	10
<b>UPS Input cord length (m)</b>	3
<b>Recommended Electrical Service</b>	20A 120V
<b>BATTERY</b>	
<b>Full load runtime (minutes)</b>	11 min. (1900w)
<b>Half load runtime (minutes)</b>	28 min. (950w)
<b>Expandable battery runtime</b>	Extended runtime supported via optional external battery packs
<b>External battery pack compatibility</b>	<a href="#">BP48V24-2U</a> (limit 1); <a href="#">BP48V48RT4U</a> (multi-pack compatible)
<b>DC system voltage (VDC)</b>	48
<b>Battery recharge rate (included batteries)</b>	Less than 3.6 hours from 10% to 90%
<b>Replacement battery cartridge (internal UPS battery replacement)</b>	<a href="#">RBC54</a> (quantity 2)
<b>Battery Access</b>	Front panel battery access door
<b>Battery replacement description</b>	Hot-swappable, user replaceable batteries
<b>VOLTAGE REGULATION</b>	
<b>Voltage regulation description</b>	Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 83 to 145

<b>Overvoltage correction</b>	Input voltages between 127 and 145 are reduced by 12%
<b>Undervoltage correction</b>	Input voltages between 96 and 108 are boosted by 12%
<b>Severe undervoltage correction</b>	Input voltages between 83 and 95 are boosted by 24%
<b>LEDS ALARMS &amp; SWITCHES</b>	
<b>LED Indicators</b>	5 LEDs indicate line power, battery power, overload, voltage regulation and battery low/replace status
<b>Alarms</b>	Audible alarm indicates power-failure, overload and low-battery conditions
<b>Alarm cancel operation</b>	Power-fail alarm can be silenced using alarm-cancel switch; once silenced, alarm will re-sound to indicate low-battery status
<b>Switches</b>	2 Switches control off/on power status and alarm-cancel/self-test operation; rear panel protected switches support low/high charger settings
<b>SURGE / NOISE SUPPRESSION</b>	
<b>UPS AC suppression joule rating</b>	570
<b>UPS AC suppression response time</b>	Instantaneous
<b>EMI / RFI AC noise suppression</b>	Yes
<b>PHYSICAL</b>	
<b>Installation form factors supported with included accessories</b>	2 post 19 inch rackmount (mounting rail kit included)
<b>Installation form factors supported with optional accessories</b>	4 post rackmount (4POSTRAILKIT); Tower (2-9USTAND)
<b>Primary form factor</b>	Rackmount
<b>UPS / Power Module dimensions in primary form factor (height x width x depth / inches)</b>	7 x 18 x 17.2
<b>UPS / Power Module dimensions in primary form factor (height x width x depth / cm)</b>	17.8 x 45.7 x 43.8
<b>Installed whole system total rack space height (rack spaces)</b>	4U
<b>Secondary form factor</b>	Tower (requires <a href="#">2-9USTAND</a> )
<b>Installed whole system dimensions in secondary form factor (height x width x depth / inches)</b>	18 x 7 x 17.2
<b>UPS dimensions in secondary form factor (height x width x depth / cm)</b>	45.7 x 17.8 x 43.8
<b>UPS / Power Module weight (lbs)</b>	100.3
<b>UPS / Power Module weight (kg)</b>	45.5

UPS Shipping dimensions (height x width x depth / inches)	12.8 x 23.3 x 22.8
UPS Shipping dimensions (height x width x depth / cm)	32.4 x 59.1 x 57.8
Shipping weight (lbs)	128.9
Shipping weight (kg)	58.5
UPS housing material	Steel
Cooling method	Fan
<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)	199.8
Battery mode BTU / hr. (full load)	880.9
<b>COMMUNICATIONS</b>	
Communications interface	USB (HID enabled); 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
<b>LINE / BATTERY TRANSFER</b>	
Transfer time	5.5 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
Green & high efficiency UPS features	Greater than 95% efficiency - GREEN UPS; Individually controllable load banks
<b>CERTIFICATIONS</b>	
UPS Certifications	Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category A (EMI); ROHS (Reduction of Hazardous Substances)

**WARRANTY****Product Warranty Period (U.S., Canada & Puerto Rico)**

2 years

**Connected Equipment Insurance (U.S., Canada & Puerto Rico)**

\$250,000 connected equipment insurance

**Related Items****Optional Products**

Product Type	Related Model	Description	Qty.
SNMP Accessories	<a href="#">SNMPWEBCARD</a>	For remote monitoring and control via SNMP, Web, or Telnet.	-
SNMP Accessories	<a href="#">ENVIROSENSE</a>	Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.)	-
Tower Stands	<a href="#">2-9USTAND</a>	Enables Tower Placement of Rackmount UPS Systems	-
Rackmount/Wallmount Kits	<a href="#">4POSTRAILKIT</a>	Enables 4-Post Rackmount Installation of Select Rackmount UPS Systems	-
External Battery Packs	<a href="#">BP48V24-2U</a>	BP48V242U - External Battery Pack for UPS System	-
External Battery Packs	<a href="#">BP48V48RT4U</a>	Shallow-Depth External Battery Pack For UPS Systems	-
Extended Warranties	<a href="#">WEXT3-2200-3000</a>	3-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 2200-3000VA	-
Extended Warranties	<a href="#">WEXT5-2200-3000</a>	5-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 2200-3000VA or less	-
Power Distribution	<a href="#">PDUB20</a>	Dual source Power Distribution Unit / PDU with Manual Transfer Switch enables Hot-swappable UPS Replacement in Critical Network Applications	-
Power Distribution	<a href="#">PDU1220</a>	Basic PDU / Power Distribution Unit - Safe, reliable power distribution for critical networking equipment	-
Power Distribution	<a href="#">PDUMH20</a>	Metered PDU / Power Distribution Unit- Safe, reliable power distribution with digital current meter	-
Power Distribution	<a href="#">PDUMV20</a>	Metered PDU / Power Distribution Unit - Safe, reliable power distribution with digital current meter	-
Power Distribution	<a href="#">PDUMNH20</a>	Monitored PDU / Power Distribution Unit supports real-time remote monitoring of load level, voltage and frequency with options for remote environmental and security monitoring	-
Power Distribution	<a href="#">PDUMNV20</a>	Monitored PDU / Power Distribution Unit supports real-time remote monitoring of load level, voltage and frequency with options for remote environmental and security monitoring	-
Power Distribution	<a href="#">PDUMH20ATNET</a>	Switched, Metered PDU with ATS - Power Distribution Unit with dual-input Auto Transfer Switching, individual outlet control and SNMP network interface	-
Power Distribution	<a href="#">PDUMV20NET</a>	Switched, Metered PDU with Remote Monitoring - 0U Vertical Rackmount Power Distribution Unit for Networks with Individually Switchable Outlets, Current Metering, Remote Monitoring and Control	-
Software	<a href="#">WATCHDOGSW</a>	WatchDog Service Monitoring / Reboot Software	-
Power Cables	<a href="#">P007-002</a>	2-ft. Heavy-Duty 14AWG Power cord (IEC-320-C13 to NEMA 5-15P)	-
Power Cables	<a href="#">P007-006</a>	6-ft. Heavy-Duty 14AWG Power cord (IEC-320-C13 to NEMA 5-15P)	-
Power Cables	<a href="#">P007-010</a>	10-ft. Heavy-Duty 14AWG Power cord (IEC-320-C13 to NEMA 5-15P)	-

Power Cables	<a href="#">P044-061</a>	6-inch 12AWG Heavy Duty Power Adapter cord (NEMA-L5-20R to NEMA-5-20P)	-
Power Cables	<a href="#">P049-010</a>	10-ft. 12AWG Heavy Duty Power cord (IEC-320-C19 to NEMA 5-20P)	-

More information, including related products, owner's manuals, and additional technical specifications, can be found online at [www.tripplite.com/en/products/model.cfm?txtModelID=3825](http://www.tripplite.com/en/products/model.cfm?txtModelID=3825).

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