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## Model #: SMART2200CRMXL

**SmartPro 2.2kVA Line Interactive Sine Wave UPS, 1900W, Extended-run, SNMPWEBCARD options, 4U Rack/Tower, USB, Serial, EPO, 120V**

### Highlights



- 2.2kVA / 2200VA / 1900W line interactive UPS, 0.86 power factor
- 120V output, Corrects brownouts and overvoltages from 83V to 145V
- 4U rack/tower, Reduced depth, Sine wave output, 2 post mounting kit
- USB, RS232, EPO and slot for optional SNMP/Web card
- Expandable runtime, 97% line-mode efficiency, 3 switched load banks
- NEMA 5-20P input, 4 5-15/20R & 4 5-15R outlets

### 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.

### Package Includes

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

### 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
- Some external battery configurations require the use of Tripp Lite's [External Battery Configuration Software](#) (see manual)
- 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; 2-9USTAND tower stands and UPSRMR11 4 post rackmount kit available
- Field-replaceable, hot-swappable internal batteries and external battery packs
- Attractive all-black color scheme

## 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
Output AC waveform (AC mode)	Sine wave
Output AC waveform (battery mode)	Pure Sine wave
INPUT	
Rated input current (at maximum load)	16A
Nominal Input Voltage(s) Supported	120V AC
UPS input connection type	5-20P

Input circuit breaker	20A
UPS Input cord length (ft.)	10
UPS Input cord length (m)	3
Recommended Electrical Service	20A 120V
<b>BATTERY</b>	
Full load runtime (minutes)	11 min. (1900w)
Half load runtime (minutes)	28 min. (950w)
Expandable battery runtime	Extended runtime supported via optional external battery packs
External battery pack compatibility	<a href="#">BP48V24-2U</a> (limit 1); <a href="#">BP48V48RT4U</a> (multi-pack compatible)
DC system voltage (VDC)	48
Battery recharge rate (included batteries)	Less than 3.6 hours from 10% to 90%
Replacement battery cartridge (internal UPS battery replacement)	<a href="#">RBC54</a> (quantity 2)
Battery Access	Front panel battery access door
Battery replacement description	Hot-swappable, user replaceable batteries
<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>LEDS ALARMS &amp; SWITCHES</b>	
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; rear panel protected switches support low/high charger settings
<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>	

<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>UPS / Power Module weight (lbs)</b>	100.3
<b>UPS / Power Module weight (kg)</b>	45.5
<b>UPS Shipping dimensions (height x width x depth / inches)</b>	12.8 x 23.3 x 22.8
<b>UPS Shipping dimensions (height x width x depth / cm)</b>	32.4 x 59.1 x 57.8
<b>Shipping weight (lbs)</b>	128.9
<b>Shipping weight (kg)</b>	58.5
<b>UPS housing material</b>	Steel
<b>Cooling method</b>	Fan
<b>ENVIRONMENTAL</b>	
<b>Operating Temperature Range</b>	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius
<b>Storage Temperature Range</b>	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius
<b>Relative Humidity</b>	0 to 95%, non-condensing
<b>AC mode BTU / hr. (full load)</b>	199.8
<b>Battery mode BTU / hr. (full load)</b>	880.9
<b>COMMUNICATIONS</b>	
<b>Communications interface</b>	USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface
<b>Network monitoring port description</b>	Supports detailed monitoring of UPS and site power conditions
<b>PowerAlert software</b>	Included

<b>Communications cable</b>	USB and DB9 cabling included
<b>WatchDog compatibility</b>	Supports Watchdog application, OS and hard-reboot restart options for remote applications
<b>LINE / BATTERY TRANSFER</b>	
<b>Transfer time</b>	5.5 milliseconds
<b>Low voltage transfer to battery power (setpoint)</b>	83
<b>High voltage transfer to battery power (setpoint)</b>	145
<b>SPECIAL FEATURES</b>	
<b>Cold Start (startup in battery mode during a power failure)</b>	Cold-start operation supported
<b>High availability UPS features</b>	Hot swappable batteries
<b>CERTIFICATIONS</b>	
<b>UPS Certifications</b>	Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category A (EMI)
<b>WARRANTY</b>	
<b>Product Warranty Period (U.S., Canada &amp; Puerto Rico)</b>	2-year limited warranty; 2-year warranty, 3 year with <a href="#">registration</a> . Note: <a href="#">registration</a> is required for 3-year warranty.
<b>Connected Equipment Insurance (U.S., Canada &amp; Puerto Rico)</b>	\$250,000 <a href="#">Ultimate Lifetime Insurance</a>

## Related Items

### Optional Products

Product Type	Related Model	Description	Qty.
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	1
External Battery Packs	<a href="#">BP48V24-2U</a>	BP48V242U - External Battery Pack for UPS System	1
External Battery Packs	<a href="#">BP48V48RT4U</a>	Shallow-Depth External Battery Pack For UPS Systems	1
Power Cables	<a href="#">P007-002</a>	2-ft. Heavy-Duty 14AWG Power cord (IEC-320-C13 to NEMA 5-15P)	1
Power Cables	<a href="#">P007-006</a>	6-ft. Heavy-Duty 14AWG Power cord (IEC-320-C13 to NEMA 5-15P)	1
Power Cables	<a href="#">P007-010</a>	10-ft. Heavy-Duty 14AWG Power cord (IEC-320-C13 to NEMA 5-15P)	1
Power Cables	<a href="#">P044-06I</a>	6-inch 12AWG Heavy Duty Power Adapter cord (NEMA-L5-20R to NEMA-5-20P)	1
Power Cables	<a href="#">P049-010</a>	10-ft. 12AWG Heavy Duty Power cord (IEC-320-C19 to NEMA 5-20P)	1
Power Distribution	<a href="#">PDU1220</a>	Basic PDU / Power Distribution Unit - Safe, reliable power distribution for critical networking equipment	1
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	1

Power Distribution	<a href="#">PDUMH20</a>	Metered PDU / Power Distribution Unit- Safe, reliable power distribution with digital current meter	1
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	1
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	1
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	1
Power Distribution	<a href="#">PDUMV20</a>	Metered PDU / Power Distribution Unit - Safe, reliable power distribution with digital current meter	1
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	1
Rackmount/Wallmount Kits	<a href="#">4POSTRAILKIT</a>	Enables 4-Post Rackmount Installation of Select Rackmount UPS Systems	1
SNMP Accessories	<a href="#">ENVIROSENSE</a>	Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.)	1
SNMP Accessories	<a href="#">SNMPWEBCARD</a>	For remote monitoring and control via SNMP, Web, or Telnet.	1
Software	<a href="#">WATCHDOGSW</a>	WatchDog Service Monitoring / Reboot Software	1
Tower Stands	<a href="#">2-9USTAND</a>	Enables Tower Placement of Rackmount UPS Systems	1

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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