SmartPro Line Interactive Dual Voltage Rack/Tower UPS System - Maintains 120V nominal output with either 120V or 230V input power

MODEL NUMBER: **SM2200RMDVTAA**

Highlights

- Federal Trade Agreements Act / TAA Compliant for GSA Schedule purchases
- 2200VA / 2.2kVA / 1920W line interactive 3U rack/tower UPS; 0.9 power factor
- Maintains 120V output with 120V or 230V input, Sine wave output
- USB port, RS232, EPO and optional SNMP/WEB card slot; Detailed status LEDs
- 95% line-mode efficiency, 2 switched load banks
- C20 inlet & 4 international input line cords, 4 5-15R & 4 5-15/20R outlets

Package Includes

- SM2200RMDVTAA UPS system
- 5 international input power cables
- USB, DB9, EPO cabling and PowerAlert software
- 2-9USTAND tower stand kit
- 2POSTRMKITHD two-post rackmount kit
- 4POSTRAILKIT are also included
- User manual

Description

Tripp Lite's dual input voltage SM2200RMDVTAA line interactive UPS system maintains 120V nominal output when powered by North American 120V or International 230V input. Protects a variety of computer, networking and other sensitive equipment types from blackouts, voltage fluctuations and transient surges. 3U rack / tower form factor with an installed depth of only 22.5 inches. Expandable battery runtime with optional BP48V24-2U and BP48V60RT3U external battery packs. Uninterruptible Power Supply (UPS) switches to battery-derived AC output during power failures and extreme voltage variations. Line interactive Automatic Voltage Regulation (AVR) offers voltage boost during brownouts and voltage cut during overvoltages to maintain regulated 120v output over an input range of 89 to 148V or 212 to 286V. Includes C20 power inlet with set of 4 international cord sets and both NEMA 5-15R and 5-15/20R output receptacles. Network-grade AC surge and noise suppression. Network management interfaces support simultaneous communications via USB port, DB9 serial port and SNMPWEBCARD slot. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. Supports simultaneous detailed monitoring of equipment load levels, self-test data and utility power conditions via all 3 network interfaces. Includes PowerAlert monitoring software and complete cabling. Emergency Power Off (EPO) interface. Integrated 2-bank programmable PDU switching supports load shedding and remote-reboot of up to 2 individual connected devices. 3-stage metered current monitoring and battery charge status LEDs. 95% efficiency in line power mode reduces energy cost and BTU emissions. Utility power and voltage regulation LEDs. Audible alarm. Self-test. Installation accessories for rackmount and upright tower form factors included. Field-replaceable, hot-swappable internal batteries and external battery packs. Attractive all-black color scheme.

Features

- SmartPro SM2200RMDVTAA dual-voltage line interactive UPS system maintains 120V nominal output with either 120V or 230V input power
- Ideal for voice, data and networking applications requiring 120V output from worldwide power sources
- Line interactive Automatic Voltage Regulation (AVR) offers voltage boost during brownouts and voltage cut during overvoltages
- Maintains continuous operation through blackouts, voltage fluctuations and surges
- Corrects line voltage conditions between 89 to 148V or 212 to 286V to 120V nominal output
- Standard internal battery set offers 30 minutes runtime at half load (960 watts) and 12 minutes at full load (1920 watts)

- Extended runtime is available with optional BP48V24-2U / BP48V242UTAA (limit 1) OR BP48V60RT3U / BP48V60RT3UTAA (no limit)
- Some external battery configurations require the use of Tripp Lite's External Battery Configuration Software (see manual)
- Includes C20 power inlet with set of 4 international cord sets to support 5-20P, Schuko, CEE 7 / EU1-16P, British BS1363A and Italian CEI 23-16 plug types
- Includes NEMA 5-15R and 5-15/20R output receptacles
- Network-grade AC surge and noise suppression
- Network management interfaces support simultaneous communications via USB port, DB9 serial port and SNMPWEBCARD slot
- HID-compliant USB port enables integration with built-in power management and auto shutdown features of Windows and Mac OS X
- Supports simultaneous detailed monitoring of equipment load levels, self-test data and utility power conditions via all 3 network interfaces
- Includes PowerAlert monitoring software and complete cabling. Emergency Power Off (EPO) interface
- Integrated 2-bank PDU switching supports load shedding and remote-reboot of connected equipment. 3-stage metered current monitoring and battery charge status LEDs
- 95% efficiency in line power mode reduces energy cost and BTU emissions
- Utility power and voltage regulation LEDs
- Installation accessories for rackmount and upright tower form factors included
- Field-replaceable, hot-swappable internal batteries and external battery packs

Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	2200
Output kVA Capacity (kVA)	2.2
Output Watt Capacity (Watts)	1920
Output kW Capacity (kW)	1.92
Nominal Output Voltage(s) Supported	120V
Frequency Compatibility	50 / 60 Hz
Frequency Compatibility Details	Auto-sensing
Output Voltage Regulation (Battery Mode)	+/- 5%
UPS Output Receptacles	4 5-15R outlet(s); 4 5-15/20R outlet(s)
Load Management Receptacles	Two 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 (120V), 10A (230V)
Nominal Input Voltage(s) Supported	120V AC; 230V AC
UPS Input Connection Type	5-20P; C20 inlet
UPS Input Connection Description	C20 inlet and 5 compatible plugsets (5-20P, Schuko CEE7, EU1-16P, British BS1363, Italian CEI 23-16)

Input Circuit Breakers	20A
UPS Input Cord Length (ft.)	6
UPS Input Cord Length (m)	1.8
Input Phase	Single-Phase

BATTERY	
Full Load Runtime (min.)	12 minutes (1920 watts)
Half Load Runtime (min.)	30 minutes (960 watts)
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 4.5 hours from 10% to 90% (internal batteries)
Internal UPS Replacement Battery Cartridge	RBC49-DV (quantity 2 required)
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 120v line power output with input range of 89 to 148 or 170 to 286
Overvoltage Correction	Voltage reduction of 12% applies when input is between 127 and 148 (120V)
Undervoltage Correction	Voltage boost of 12% applies when input voltage is between 96 and 108 (120V)

LEDS ALARMS & SWITCHES	
LED Indicators	5 LEDs indicate line power, battery power, overload, voltage regulation and battery low/replace status
Audible Alarm	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 nominal voltage selection

SURGE / NOISE SUPPRESSION	
UPS AC Suppression Joule Rating	340
UPS AC Suppression Response Time	Instantaneous
EMI / RFI AC Noise Suppression	Yes

PHYSICAL	

Installation Form Factors Supported with Included Accessories	Tower
Included Mounting Accessory Description	Complete installation accessories available for 2 post, 4 post and tower installation
Installation Form Factors Supported with Optional Accessories	4 post rackmount (4POSTRAILKIT)
Primary Form Factor	Rackmount
UPS Power Module Dimensions (hwd, in.)	5.25 x 17.5 x 25.25
UPS Power Module Dimensions (hwd, cm)	13.3 x 44.4 x 64.1
Rack Height (U Spaces)	3U
UPS Power Module Weight (lbs.)	104.25
UPS Power Module Weight (kg)	47.3
UPS Shipping Dimensions (hwd / in.)	11.5 x 29.5 x 30.5
UPS Shipping Dimensions (hwd / cm)	29.2 x 151.6 x 129
Shipping Weight (lbs.)	159.5
Shipping Weight (kg)	72.4
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)	347
Battery Mode BTU / Hr. (Full Load)	604.4
AC Mode Efficiency Rating (100% Load)	95%

COMMUNICATIONS	
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
Network UPS Tools Compatibility	NUT compatible. See the full list of Tripp Lite NUT compatible UPS systems at http://www.networkupstools.org/stable-hcl.html?manufacturer=Tripp Lite

LINE / BATTERY TRANSFER	
Transfer Time	2-4 milliseconds
Low Voltage Transfer to Battery Power (Setpoint)	89 (120V), 170 (230V)
High Voltage Transfer to Battery Power (Setpoint)	148 (120V), 286 (230V)

SPECIAL FEATURES	
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); ROHS (Restriction of Hazardous Substances); TAA Compliant

WARRANTY	
Product Warranty Period (Worldwide)	2-year limited warranty