TAA SmartPro 120V 2.2kVA 1.92kW Line-Interactive Sine Wave UPS, 3U, 120/230V input, Network Card Options, USB, DB9

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 network management card slot; Detailed status LEDs
- 95% line-mode efficiency, 2 switched load banks
- C20 inlet and 4 international input line cords, 4 5-15R and 4 5-15/20R outlets
- To use the Auto Probe feature, this product requires a WEBCARDLX network interface (sold separately) running LX firmware update 15.5.2 or later

Package Includes

- SM2200RMDVTAA UPS system
- 5 international input power cables
- USB, DB9, EPO cabling
- 2-9USTAND tower stand kit
- 2POSTRMKITHD two-post rackmount kit
- 4POSTRAILKIT
- Owner's manual

Description

The 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 four international cord sets and both NEMA 5-15R and 5-15/20R output receptacles. Network-grade AC surge and noise suppression. Communications interfaces support communications via USB, DB9 serial and slot for optional network management card. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and macOS. Supports simultaneous detailed monitoring of equipment load levels, self-test data and utility power conditions via all 3 network interfaces. PowerAlert® monitoring software is available via free download. Emergency Power Off (EPO) interface. Integrated dual-bank programmable PDU switching supports load shedding and remote-reboot of up to two 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 rack-mount 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 External Battery Configuration Software (see manual)
- Following an extended power outage, the UPS will automatically restart into line-power mode, begin powering connected equipment and recharge the battery system, all without user interaction
- 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
- Compatible with UPS management card options WEBCARDLX and SNMPWEBCARD
- USB and DB9 ports enable data-saving unattended shutdown when used with PowerAlert software, available via FREE download from tripplite.eaton.com/products/power-alert
- HID-compliant USB port enables integration with built-in power management and auto shutdown features of Windows and macOS
- Supports simultaneous detailed monitoring of equipment load levels, self-test data and utility power conditions via all 3 network interfaces
- 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 rack-mount and upright tower form factors included
- Field-replaceable, hot-swappable internal batteries and external battery packs

Specifications

OVERVIEW	
UPC Code	037332156310
UPS Type	Line-Interactive
INPUT	
Input Phase	Single-Phase
Rated input current (Maximum Load)	16A (120V), 10A (230V)
Nominal Input Voltage(s) Supported	120V AC; 230V AC
UPS Input Connection Type	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
OUTPUT	
Output Capacity (VA)	2200
Output Capacity (kVA)	2.2
Output Capacity (Watts)	1920

Output Capacity (kW)	1.92
Power Factor	0.87
Frequency Compatibility	50 / 60 Hz
Frequency Compatibility Details	Automatic frequency selection
Output Voltage Regulation (Battery Mode)	+/- 5%
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
Nominal Output Voltage(s) Supported	120V
Output Receptacles	(4) 5-15R; (4) 5-15/20R
Individually Controllable Load Banks	Yes
BATTERY	
Battery Type	Valve Regulated Lead Acid (VRLA)
Runtime Full Load (min.)	12 min. (1920W)
Runtime Half Load (min.)	30 min. (960W)
Expandable Runtime	Yes
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)
Battery Access	Front panel battery access door
Internal UPS Replacement Battery Cartridge	RBC49-DV (quantity 2 required)
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)
USER INTERFACE, ALERTS & CONTROLS	
Switches	2 Switches control off/on power status and alarm-cancel/self-test operation; rear panel protected switches support nominal voltage selection
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
SURGE / NOISE SUPPRESSION	
UPS AC Suppression Joule Rating	340
UPS AC Suppression Response Time	Instantaneous
EMI / RFI AC Noise Suppression	Yes
PHYSICAL	
Primary Form Factor	Rackmount
Rack Height	3U
Cooling Method	Fan
Included Mounting Accessory Description	Complete installation accessories available for 2 post, 4 post and tower installation
Installation Form Factors Supported with Included Accessories	4 post 19 inch rackmount
Installation Form Factors Supported with Optional Accessories	4 post rackmount full-depth (4POSTRAILKIT)
Minimum Required Rack Depth (cm)	73.66
Minimum Required Rack Depth (inches)	29
Minimum Required Rack Depth with External Battery Pack (cm)	82
Minimum Required Rack Depth with External Battery Pack (in.)	32.25
Minimum Required Rack Depth without External Battery Pack (cm)	77
Minimum Required Rack Depth without External Battery Pack (in.)	30.25
Primary UPS Depth (mm)	641
Primary UPS Height (mm)	133
Primary UPS Width (mm)	445
Shipping Dimensions (hwd / in.)	12.00 x 30.00 x 30.00
Shipping Dimensions (hwd / cm)	30.48 x 76.20 x 76.20
Shipping Weight (lbs.)	160.00
Shipping Weight (kg)	72.57
UPS Housing Material	Steel
UPS Power Module Dimensions (hwd, cm)	13.34 x 44.45 x 64.14
UPS Power Module Dimensions (hwd, in.)	5.25 x 17.5 x 25.25
UPS Power Module Weight (kg)	47.29
UPS Power Module Weight (lbs.)	104.25

Unit Dimensions (hwd / in.)	5.250 x 17.750 x 25.250
Unit Weight (lbs.)	104.2500
Unit Weight (kg)	47.29
ENVIRONMENTAL	
Operating Temperature Range	32° to 104°F (0° to 40°C)
Storage Temperature Range	5° to 122°F (-15° to 50°C)
Relative Humidity	0 to 95%, non-condensing
AC Mode BTU / Hr. (Full Load)	347
AC Mode Efficiency Rating (100% Load)	95%
Battery Mode Heat Dissipation (BTU/Hr) @ Full Load	894
Audible Noise	45 dBA maximum, front side 1m
COMMUNICATIONS	
Network Management Cards	WEBCARDLXE
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 software at https://tripplite.eaton.com/products/power-alert
Communications Cable	USB and DB9 cabling included
WatchDog Compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
Network UPS Tools (NUT) Compatibility	NUT compatible. See a full list of NUT compatible Tripp Lite UPS systems at https://networkupstools.org/stable-hcl.html?manufacturer=Tripp%20Lite
Network Management Card Description	Network management card optional
Communications Interface	DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface; USB (HID enabled)
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)
FEATURES & SPECIFICATIONS	
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Auto Probe Monitoring and Reboot (requires WEBCARDLX); Automatic Voltage Regulation (AVR); Hot swappable batteries; Remote management; Surge/noise protection
Green Energy-Saving Features	Greater than 95% efficiency - GREEN UPS; Individually controllable load banks

APPLICATIONS	
UPS Applications	Large Network
STANDARDS & COMPLIANCE	
Product Certifications	CSA (Canada); UL 1778
Product Compliance	RoHS; FCC Part 15 Class A (USA); Trade Agreements Act (TAA)
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	2-year limited warranty

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