

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

MODEL NUMBER: SM2200RMDVTAA



### 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)

### 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 & 4 international input line cords, 4 5-15R & 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

- 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](http://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          | 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                                                                                                  |
| OUTPUT                             |                                                                                                      |
| Output Capacity (VA)               | 2200                                                                                                 |

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|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>BATTERY</b>                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 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          | <a href="http://tripplite.eaton.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosure-DC-Cabling-select-UPS-Systems~BP48V24-2U">BP48V24-2U</a> (limit 1); <a href="http://tripplite.eaton.com/External-48V-3U-Rack-Tower-Battery-Pack-Enclosure-DC-Cabling-select-UPS-Systems~BP48V60RT-3U">BP48V60RT-3U</a> (multi-pack compatible); <a href="http://tripplite.eaton.com/External-48V-2U-Rack-Tower-Battery-Pack-for-UPS-Systems~BP48V27-2US">BP48V27-2US</a> (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   | <a href="http://tripplite.eaton.com/2U-UPS-Replacement-48VDC-Battery-Cartridge-for-Tripp-Lite-SmartPro-UPS~RBC49-DV">RBC49-DV</a> (quantity 2 required)                                                                                                                                                                                                                                                                                                                                |
| Battery Replacement Description              | Hot-swappable, user replaceable batteries                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>VOLTAGE REGULATION</b>                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>USER INTERFACE, ALERTS &amp; CONTROLS</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                       |
| <b>SURGE / NOISE SUPPRESSION</b>                                |                                                                                                                                                                                              |
| UPS AC Suppression Joule Rating                                 | 340                                                                                                                                                                                          |
| UPS AC Suppression Response Time                                | Instantaneous                                                                                                                                                                                |
| EMI / RFI AC Noise Suppression                                  | Yes                                                                                                                                                                                          |
| <b>PHYSICAL</b>                                                 |                                                                                                                                                                                              |
| 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 (&nbsp;<a class="productLink" href="//tripplite.eaton.com/4-Post-Rack-Mount-Installation-Kit-select-Rack-Mount-UPS-Systems~4POSTRAILKIT">4POSTRAILKIT</a>&nbsp;) |
| 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 Weight (lbs.)                                 | 104.2500                                                                                                                                                                                                                              |
| Unit Weight (kg)                                   | 47.29                                                                                                                                                                                                                                 |
| <b>ENVIRONMENTAL</b>                               |                                                                                                                                                                                                                                       |
| 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                                                                                                                                                                                                         |
| <b>COMMUNICATIONS</b>                              |                                                                                                                                                                                                                                       |
| Network Management Cards                           | SNMPWEBCARD; WEBCARDLX; &nbsp;<a class="productLink" href="//tripplite.eaton.com/Network-Card-Eaton-Tripp-Lite-Series-UPS-Systems~WEBCARDLXE">WEBCARDLXE</a>&nbsp;                                                                    |
| 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 <a href="https://tripplite.eaton.com/products/power-alert">https://tripplite.eaton.com/products/power-alert</a>                      |
| 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 <a href="https://networkupstools.org/stable-hcl.html?manufacturer=Tripp%20Lite">https://networkupstools.org/stable-hcl.html?manufacturer=Tripp%20Lite</a> |
| Network Management Card Description                | Network management card optional                                                                                                                                                                                                      |
| Communications Interface                           | DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface; USB (HID enabled)                                                                                                                                                 |
| <b>LINE / BATTERY TRANSFER</b>                     |                                                                                                                                                                                                                                       |
| 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)                                                                                                                                                                                                                |
| <b>FEATURES &amp; SPECIFICATIONS</b>               |                                                                                                                                                                                                                                       |

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