

## SmartPro 120V 2200VA 1920W Line-Interactive Sine Wave UPS, 2U, Extended Run, Network Card Options, LCD, USB, DB9, TAA

MODEL NUMBER: **SM2200RML2UP**



### Description

SmartPro® Line-Interactive UPS with enhanced LCD interface offers network-grade power protection for critical server, network and telecommunications equipment. Line-Interactive Uninterruptible Power Supply (UPS) with built-in Auto-Voltage Regulation (AVR) actively corrects brownouts and overvoltages back to usable levels while maintaining a full battery charge in case of power failure. This unique configuration excels in exceptionally poor power environments with two separate levels of voltage boost to correct both slight undervoltages and severe brownout conditions. Interactive LCD interface reports UPS operating mode, detailed UPS and site-power data, plus enables a variety of UPS setup and configuration options. Super-fast switchover from line to battery power occurs within milliseconds to maintain operation of connected equipment without interruption or reboot. 96% line-mode efficiency offers reduced heat emissions and operating costs. Communications interfaces support communications via USB, DB9 serial and slot for optional network management card options. HID-compliant USB port enables integration with built-in power management and auto shutdown features of Windows and macOS. Network communications ports enable detailed monitoring of equipment load levels, self-test data and utility power conditions. PowerAlert® monitoring software is available for free download. Switched output load banks enable scheduled and real-time remote reboot and load shedding of select outlets. Emergency Power Off (EPO) interface. LCD display panel easily rotates for viewing in rack-mount or tower configurations. Audible alarm with push-button momentary alarm-cancel and silent-mode configuration options. Programmable self-test. Field-replaceable, hot-swappable battery modules.

### Features

- SM2200RML2UP line interactive 2U rack/tower UPS with 2200VA / 2.2kVA / 1920W capacity and extended runtime options
- Line interactive UPS with Automatic Voltage Regulation (AVR) corrects brownouts and overvoltages from 83 to 145V
- NEMA 5-20P input plug; 4 NEMA 5-15/20R and 4 5-15R output receptacles, Two independently switched output load banks
- Maintains uninterrupted operation of connected networking equipment during blackouts, surges, brownouts and overvoltages
- High 96% efficiency rating in line-power mode offers reduced power consumption and BTU emissions
- Internal batteries offer 12 minutes at 50% load (960W) and 4.5 minutes at 100% load (1920W)
- Extended runtime is available with optional BP48V24-2U (limit 1), BP48V60RT3UTAA (multi-pack compatible) and BP48V27-2US (multi-pack compatible), Supports 1920 watts in standalone or extended run configurations

### Highlights

- 2.2kVA / 2200VA / 1920W line interactive 2U rack/tower UPS, Sine Wave
- Extended runtime options, 0.9 Power Factor, Interactive LCD interface
- 96% line-mode efficiency, 2 switched load banks, 4-post mounting kit
- USB, RS232, EPO and slot for network management card options
- 120V NEMA 5-20P input, 4 NEMA 5-15R and 4 NEMA 5-15/20R outlets
- To use the Auto Probe feature, this product requires a WEBCARDLXE network interface (sold separately) running LX firmware update 15.5.2 or later

### Package Includes

- SM2200RML2UP UPS system
- USB, Serial & EPO cabling
- 4 post installation kit
- Owner's manual



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- External battery configurations require the use of External Battery Configuration Software (see manual)
- Hot-swappable, user-replaceable internal batteries and external battery packs can be replaced with no disruption to connected equipment
- Intelligent battery management system extends battery life
- Front panel LCD monitoring screen with MODE and ENTER buttons reports operating mode with 5-bar battery charge graphic, plus 7 selectable screens of detailed UPS and site power information
- LCD interface also supports a number of advanced user setup and operating preferences
- Ships with 4-post rack-mount installation hardware; Optional 2POSTRMKITWM enables 2-post rack-mount/wallmount installation; Optional 2-9USTAND enables tower placement
- Built-in USB, DB9 and EPO (Emergency Power Off) interfaces
- Compatible with UPS management card options WEBCARDLXE
- HID-compliant USB port enables integration with built-in power management and auto shutdown features of Windows and macOS
- USB & 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)
- Built-in Emergency Power Off (EPO) interface with cable

## Specifications

| OVERVIEW                           |                                                                      |
|------------------------------------|----------------------------------------------------------------------|
| UPC Code                           | 037332144348                                                         |
| UPS Type                           | Line-Interactive                                                     |
| INPUT                              |                                                                      |
| Input Phase                        | Single-Phase                                                         |
| Rated input current (Maximum Load) | 16A                                                                  |
| Nominal Input Voltage(s) Supported | 120V AC                                                              |
| UPS Input Connection Type          | 5-20P                                                                |
| UPS Input Cord Length (ft.)        | 10                                                                   |
| UPS Input Cord Length (m)          | 3.1                                                                  |
| Recommended Electrical Service     | 20A 120V                                                             |
| Maximum Input Amps                 | 16                                                                   |
| OUTPUT                             |                                                                      |
| Output Capacity (VA)               | 2200                                                                 |
| Output Capacity (kVA)              | 2.2                                                                  |
| Output Capacity (Watts)            | 1920                                                                 |
| Output Capacity (kW)               | 1.92                                                                 |
| Output Capacity Details            | Supports 1920 watts in standalone or extended runtime configurations |
| Power Factor                       | 0.87                                                                 |
| Nominal Voltage Details            | 120v nominal output in battery mode                                  |



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|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency Compatibility                      | 60 Hz                                                                                                                                                                                                                                                                                   |
| Output Voltage Regulation (Line Mode)        | -14%, +6%                                                                                                                                                                                                                                                                               |
| Output Voltage Regulation (Battery Mode)     | +/- 5%                                                                                                                                                                                                                                                                                  |
| Load Management Receptacles                  | Two switched single outlet load banks (1 5-15/20R & 1 5-15R)                                                                                                                                                                                                                            |
| Output AC Waveform (AC Mode)                 | Pure Sine wave                                                                                                                                                                                                                                                                          |
| Output AC Waveform (Battery Mode)            | Pure Sine wave                                                                                                                                                                                                                                                                          |
| Nominal Output Voltage(s) Supported          | 110V; 115V; 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.)                     | 4.5 min. (1920W)                                                                                                                                                                                                                                                                        |
| Runtime Half Load (min.)                     | 12 min. (960W)                                                                                                                                                                                                                                                                          |
| Expandable Runtime                           | Yes                                                                                                                                                                                                                                                                                     |
| External Battery Pack Compatibility          | <a href="#">BP48V24-2U</a> & <a href="#">BP48V27-2US</a> (multi-pack compatible); <a href="#">BP48V60RT3UTAA</a> (multi-pack compatible)                                                                                                                                                |
| DC System Voltage (VDC)                      | 48                                                                                                                                                                                                                                                                                      |
| Battery Recharge Rate (Included Batteries)   | Less than 4.5 hours from 10% to 90% (typical, full load discharge)                                                                                                                                                                                                                      |
| Battery Access                               | Front panel battery access door                                                                                                                                                                                                                                                         |
| Internal UPS Replacement Battery Cartridge   | <a href="#">RBC94-2U</a>                                                                                                                                                                                                                                                                |
| Battery Replacement Description              | Hot-swappable, user replaceable batteries                                                                                                                                                                                                                                               |
| <b>VOLTAGE REGULATION</b>                    |                                                                                                                                                                                                                                                                                         |
| Voltage Regulation Description               | Automatic voltage regulation (AVR) maintains regulated line power output with an input voltage range of 83 and 145                                                                                                                                                                      |
| Overvoltage Correction                       | Voltage reduction of 12% applies when input is between 127 and 145                                                                                                                                                                                                                      |
| Undervoltage Correction                      | Voltage boost of 12% applies when input voltage is between 96 and 108                                                                                                                                                                                                                   |
| Severe Undervoltage Correction               | Voltage boost of 24% applies when input voltage is between 83 and 95                                                                                                                                                                                                                    |
| <b>USER INTERFACE, ALERTS &amp; CONTROLS</b> |                                                                                                                                                                                                                                                                                         |
| Front Panel LCD Display                      | Front panel LCD information and configuration screen offers detailed UPS and site power status and operating data, plus configuration of voltage, operating mode, alarm function and a variety of additional options (see manual for detailed LCD configuration and monitoring options) |
| Switches                                     | 3 pushbutton switches control OFF / ON power status, MODE selection and MUTE / ENTER control functions                                                                                                                                                                                  |



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|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alarm Cancel Operation                                          | Power-fail alarm can be temporarily silenced using alarm-cancel switch; silent mode alarm configuration option available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Audible Alarm                                                   | Audible alarm indicates power-failure, overload and low-battery conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>SURGE / NOISE SUPPRESSION</b>                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| EMI / RFI AC Noise Suppression                                  | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| AC Suppression Joule Rating                                     | 570                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| AC Suppression Response Time                                    | Instantaneous                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>PHYSICAL</b>                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Primary Form Factor                                             | Rackmount                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Rack Height                                                     | 2U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Cooling Method                                                  | Fan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Installation Form Factors Supported with Included Accessories   | 4 post 19 inch rackmount                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Installation Form Factors Supported with Optional Accessories   | 2 post rackmount ( <a href="http://tripplite.eaton.com/2-Post-Rack-Mount-Wall-Mount-Adapter-Kit-select-Rack-Mount-UPS-Systems~2POSTRMKITWM">2POSTRMKITWM</a> ); 2-4 post front rail rackmount ( <a href="http://tripplite.eaton.com/Heavy-Duty-2-post-Front-Mounting-Ear-Kit~UPSHDEARKIT">UPSHDEARKIT</a> ); 4 post rackmount short-depth ( <a href="http://tripplite.eaton.com/4-Post-1U-Universal-Adjustable-Rack-Mount-Shelf-Kit-for-Wall-Mount-Racks~4POSTRAILKITWM">4POSTRAILKITWM</a> ); Tower ( <a href="http://tripplite.eaton.com/2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND">2-9USTAND</a> ); Wallmount ( <a href="http://tripplite.eaton.com/2-Post-Rack-Mount-Wall-Mount-Adapter-Kit-select-Rack-Mount-UPS-Systems~2POSTRMKITWM">2POSTRMKITWM</a> );                                                    |
| Minimum Required Rack Depth (cm)                                | 55.88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Minimum Required Rack Depth (inches)                            | 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Minimum Required Rack Depth with External Battery Pack (cm)     | 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Minimum Required Rack Depth with External Battery Pack (in.)    | 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Minimum Required Rack Depth without External Battery Pack (cm)  | 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Minimum Required Rack Depth without External Battery Pack (in.) | 24.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Optional Mounting Accessory Notes                               | Optional ( <a href="http://tripplite.eaton.com/2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND">2-9USTAND</a> ); enables upright tower UPS placement; ( <a href="http://tripplite.eaton.com/2-Post-Rack-Mount-Wall-Mount-Adapter-Kit-select-Rack-Mount-UPS-Systems~2POSTRMKITWM">2POSTRMKITWM</a> ); enables wall-mount and 2-post rackmount installation; ( <a href="http://tripplite.eaton.com/4-Post-1U-Universal-Adjustable-Rack-Mount-Shelf-Kit-for-Wall-Mount-Racks~4POSTRAILKITWM">4POSTRAILKITWM</a> ); enables installation in 4-post short-depth racks from 14.5 to 23.5 inches (368 to 597mm); ( <a href="http://tripplite.eaton.com/Heavy-Duty-2-post-Front-Mounting-Ear-Kit~UPSHDEARKIT">UPSHDEARKIT</a> ); enables installation in 2 or 4-post racks using front vertical rails only, without rear support |
| Primary UPS Depth (mm)                                          | 483                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Primary UPS Height (mm)                                         | 89                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Primary UPS Width (mm)                                          | 445                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Shipping Dimensions (hwd / in.)                                 | 8.80 x 21.70 x 24.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Shipping Dimensions (hwd / cm)                                  | 22.35 x 55.12 x 60.96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |



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|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Shipping Weight (lbs.)                             | 80.00                                                                                                                                                                                                                                 |
| Shipping Weight (kg)                               | 36.29                                                                                                                                                                                                                                 |
| UPS Housing Material                               | Steel                                                                                                                                                                                                                                 |
| UPS Power Module Dimensions (hwd, cm)              | 8.89 x 44.45 x 48.26                                                                                                                                                                                                                  |
| UPS Power Module Dimensions (hwd, in.)             | 3.50 x 17.50 x 19.00                                                                                                                                                                                                                  |
| UPS Power Module Weight (kg)                       | 29.03                                                                                                                                                                                                                                 |
| UPS Power Module Weight (lbs.)                     | 64                                                                                                                                                                                                                                    |
| Unit Dimensions (hwd / in.)                        | 3.500 x 17.500 x 19.000                                                                                                                                                                                                               |
| Unit Weight (lbs.)                                 | 64.000                                                                                                                                                                                                                                |
| Unit Weight (kg)                                   | 29.03                                                                                                                                                                                                                                 |
| Mounting Details                                   | Included 4POSTRAILKIT mounting bracket enables installation in 4 post racks from 20.5 to 36 inches (521 to 914mm)                                                                                                                     |
| <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                                  | 0-95% non-condensing                                                                                                                                                                                                                  |
| AC Mode BTU / Hr. (Full Load)                      | 250                                                                                                                                                                                                                                   |
| AC Mode Efficiency Rating (100% Load)              | 96%                                                                                                                                                                                                                                   |
| Battery Mode Heat Dissipation (BTU/Hr) @ Full Load | 980                                                                                                                                                                                                                                   |
| Audible Noise                                      | 45 dBA maximum, front side 1m                                                                                                                                                                                                         |
| <b>COMMUNICATIONS</b>                              |                                                                                                                                                                                                                                       |
| Network Management Cards                           | &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 USB / Serial 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                                      | 5 milliseconds (line to battery mode); 1 millisecond (battery to line mode)                                                                                                                                                           |



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|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Low Voltage Transfer to Battery Power (Setpoint)            | 83                                                                                                                                                                                                       |
| High Voltage Transfer to Battery Power (Setpoint)           | 145                                                                                                                                                                                                      |
| <b>FEATURES &amp; SPECIFICATIONS</b>                        |                                                                                                                                                                                                          |
| Cold Start (Startup in Battery Mode During a Power Failure) | Cold-start operation supported                                                                                                                                                                           |
| High Availability UPS Features                              | Auto Probe Monitoring (requires WEBCARDLXE); 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                                                                                                                            |
| Grounding Details                                           | Back panel grounding lug                                                                                                                                                                                 |
| <b>APPLICATIONS</b>                                         |                                                                                                                                                                                                          |
| UPS Applications                                            | Large Network                                                                                                                                                                                            |
| <b>STANDARDS &amp; COMPLIANCE</b>                           |                                                                                                                                                                                                          |
| Product Certifications                                      | CSA (Canada); 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 warranty, 3 year with registration. Note:&nbsp;<a class="insuranceLink" href="//tripplite.eaton.com/support/product-warranty-registration">Registration is required</a>&nbsp;for 3-year warranty. |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico)  | \$250,000&nbsp;<a class="insuranceLink" href="//tripplite.eaton.com/support/insurance-policy">Ultimate Lifetime Insurance</a>&nbsp;                                                                      |

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