**Important Note**

This is the refreshed model, available with Internal Battery only. If you need a comparable UPS with External Battery Module capability, please see SMART2200RMXLN

# SmartPro 1950VA 1950W 120V Line-Interactive Sine Wave UPS - 7 Outlets, Network Card Included, LCD, USB, DB9, 2U Rack/Tower

MODEL NUMBER: **SMART2200RM2UN**



Provides complete battery backup and pure sine wave power output for servers, switches and other high-end distributed IT equipment.

## Features

**1.95kVA/1.95kW/120V Battery Backup for Distributed IT, Telecom or Enterprise Deployments**
This rack-mount line-interactive UPS system provides reliable battery backup and AC power protection against blackouts, brownouts, surges and line noise that can damage your valuable IT equipment or destroy data. The SMART2200RM2UN is ideal power management for high-end in-rack networking equipment, including servers, VoIP phones, data storage and PoE switches. Unity power factor ensures the most watts possible at each power rating, so you can connect more equipment.

**Reliable, Expandable Battery Backup Keeps You Operational Through Power Outages**
The field-replaceable, hot-swappable VRLA battery modules allow you to work through short power failures and give you enough time to safely save files and shut down your system in case of a prolonged blackout. Switchover from line to battery power happens within milliseconds to maintain continuous operation of connected equipment without interruption or rebooting.

**Pre-Installed LX Platform Network Management Card Allows Remote Access 24/7**
The WEBCARDLXE network interface enables full remote configuration and management, including load shedding, reboots of connected equipment and safe shutdowns. The IP-based Auto Probe feature ensures continuous network uptime by communicating with other network devices, detecting lost connectivity and automatically rebooting IT equipment. Optional EnviroSense2 modules (E2MT, E2MTDO and E2MTHDI, all sold separately) provide a variety of environmental monitoring and control options.

**NEMA 5-20R Outlets Protect Your Connected Components**
One L5-20R and six managed 5-20R outlets provide connected equipment with pure sine wave AC output and allow you to monitor power consumption down to the outlet group level. Power provided by these outlets is filtered to protect connected equipment against damaging surges and line noise. Four outlets are grouped into two programmable load banks that let you shed non-critical loads to extend runtime for critical loads. Front and rear cooling fans help protect equipment from overheating.

## Highlights

- Protects equipment against blackouts, brownouts, transient surges and line noise
- Keeps equipment running during outages to allow time for file saves and safe shutdown
- Unity power factor ensures maximum power possible at each power rating
- Included WEBCARDLXE network interface allows 24/7 remote monitor and control
- 2-line front-panel LCD with 10 selectable screens reports detailed UPS and site power info

## Package Includes

- 1950VA 1950W 120V Tripp Lite Series Line-Interactive UPS
- WEBCARDLXE network management card
- USB cable
- Micro USB Cable
- DB9 cable
- Rack-mounting hardware
- Tower support stands
- Safety instructions
- Quick Start Guide
- WEBCARDLXE Quick Start Guide

**Automatic Voltage Regulation (AVR) Corrects Low- and High-Voltage Conditions**
AVR protects your equipment from incremental hardware damage, data loss and performance problems caused by brownouts. The SMART2200RM2UN maintains regulated 120V nominal output during brownouts and overvoltages from 80V to 151V while keeping the battery fully charged and ready to take over in case of power failure.

**Premium Protection from EMI/RFI Line Noise Helps Your Equipment Perform Better**
This UPS system filters out disruptive electromagnetic and radio frequency interference that can inflict hardware damage or data loss. This EMI/RFI filtering also helps your connected components perform better and last longer.

**Intuitive Front-Panel Interface for Convenient UPS Operation and Monitoring**
The two-line front-panel LCD monitoring screen features ten selectable screens that allow quick access to a wide range of detailed UPS and site power information. LEDs show UPS status: a green light means utility power is on, an orange light means the UPS is in battery mode and a red light indicates an active alarm or fault. The control panel rotates to accommodate both rack-mount and tower configurations.

**Advanced Communications Ports Allow for Automatic Saves and Shutdowns**
RS-232 and USB ports connect to a device for a variety of communication options (cables are included). A dry-contact relay port can be programmed through the LCD to provide reliable communications to automation and industrial components. The RPO/ROO port permits emergency shutdown or remote restart of all connected equipment.

**Versatile Installation Options**
You can mount the SMART2200RM2UN in just 2U of space in an EIA-standard 19-inch rack using the included hardware. You can also adapt it for tower installation using the included support stands. The 10-foot power cord with NEMA 5-20P plug connects to a compatible AC outlet.

# Specifications

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| **OVERVIEW** | |
| UPC Code | 037332178015 |
| UPS Type | Line-Interactive |
| **INPUT** | |
| Input Phase | Single-Phase |
| Rated input current (Maximum Load) | 16A (120V) |
| Nominal Input Voltage(s) Supported | 120V AC |
| Nominal Input Voltage Description | 80V-151V; adjustable to 70-153V |
| 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) | 1950 |
| Output Capacity (kVA) | 1.95 |

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| Output Capacity (Watts) | 1950 |
| Output Capacity (kW) | 1.95 |
| Power Factor | 1 |
| Nominal Voltage Details | 120v nominal output in battery mode |
| Frequency Compatibility | 50 / 60 Hz |
| Output Voltage Regulation (Line Mode) | 120V (-13%, +15%) |
| Output Voltage Regulation (Battery Mode) | -10%, +6% |
| Load Management Receptacles | Two switched two-outlet load banks (2x 5-20R and 2x 5-20R) |
| Output AC Waveform (AC Mode) | Pure Sine wave |
| Output AC Waveform (Battery Mode) | Pure Sine wave |
| Nominal Output Voltage(s) Supported | 100V; 110V; 120V; 125V |
| Output Receptacles | (6) 5-20R; (1) L5-20R |
| Individually Controllable Load Banks | Yes |
| **BATTERY** | |
| Battery Type | Valve Regulated Lead Acid (VRLA) |
| Runtime Full Load (min.) | 4 min. (1950W) |
| Runtime Half Load (min.) | 12 min. (975W) |
| Expandable Runtime | No |
| DC System Voltage (VDC) | 72 |
| 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 | Pre-February 2023:  <a class="productLink" href="//tripplite.eaton.com/2U-UPS-Replacement-48VDC-Battery-Cartridge-1-set-4-select-Tripp-Lite-SmartPro-UPS~RBC94-2U">RBC94-2U</a> <br>Post-February 2023:  <a class="productLink" href="//tripplite.eaton.com/Eaton-Internal-Replacement-Battery-2000VA-2200VA-5P-5PX-UPS~744-A4852">744-A4852</a>  |
| Battery Replacement Description | Hot-swappable, user replaceable 72V DC internal battery cartridge |
| **VOLTAGE REGULATION** | |
| Voltage Regulation Description | Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 81 to 150V (Normal mode) adjustable to 70-153V (Extended mode) |
| Overvoltage Correction | Reduces incoming voltage between 132-151V by 13% (Normal Mode); 138-152V (Extended mode) |
| Undervoltage Correction | Boost incoming voltages between 81-102V by 15% (Normal Mode); 71-92V by 15% (Extended Mode) |
| **USER INTERFACE, ALERTS & CONTROLS** | |
| 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) |

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| Switches | 5 pushbutton switches control OFF / ON power status, ENTER, UP, and DOWN selection and ESC control functions. LX Platform Interface: Recessed reset switch for interface reboot and factory reset |
| Alarm Cancel Operation | Press the ESC (Escape) button on the front panel display to silence the alarm. Check the alarm condition and perform the applicable action to resolve the condition. If the alarm status changes, the alarm beeps again, overriding the previous alarm silencing. |
| Audible Alarm | Audible alarm indicates UPS startup, power-failure, low-battery, overload, UPS fault and remote shutdown conditions |
| LED Indicators | UPS: 3 status-indicating LEDs (normal, battery mode, alarm/fault); LED colors (green = ON, orange = On battery, flashing orange = below warning level, red = alarm/fault). LX Platform Interface Status: Network Link/Activity (Green): Flashes for network activity. Network Speed (Yellow): 10 Mbps (Flashing), 100 Mbps (On steady). Normal Operation (Solid Green); Software Update (Alternating Green/Orange ~1/sec); Factory Reset (Alternating Green/Orange ~2/sec). |
| **SURGE / NOISE SUPPRESSION** | |
| EMI / RFI AC Noise Suppression | Yes |
| AC Suppression Joule Rating | 380 |
| AC Suppression Response Time | Instantaneous |
| **PHYSICAL** | |
| Primary Form Factor | Rackmount; Tower |
| 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 | 4 post rackmount short-depth ( <a class="productLink" href="//tripplite.eaton.com/4-Post-1U-Universal-Adjustable-Rack-Mount-Shelf-Kit-for-Wall-Mount-Racks~4POSTRAILKITWM">4POSTRAILKITWM</a> ) |
| Minimum Required Rack Depth (cm) | 68.58 |
| Minimum Required Rack Depth (inches) | 27 |
| Optional Mounting Accessory Notes | Optional  <a class="productLink" href="//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) |
| Primary UPS Depth (mm) | 602 |
| Primary UPS Height (mm) | 86 |
| Primary UPS Width (mm) | 437 |
| Shipping Dimensions (hwd / in.) | 9.40 x 22.80 x 30.90 |
| Shipping Dimensions (hwd / cm) | 23.88 x 57.91 x 78.49 |
| Shipping Weight (lbs.) | 78.50 |
| Shipping Weight (kg) | 35.61 |
| UPS Housing Material | Steel |
| UPS Power Module Dimensions (hwd, cm) | 8.64 x 43.69 x 60.20 |
| UPS Power Module Dimensions (hwd, in.) | 3.4 x 17.2 x 23.7 |
| UPS Power Module Weight (kg) | 35.65 |

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| UPS Power Module Weight (lbs.) | 78.6 |
| Unit Dimensions (hwd / in.) | 3.400 x 17.200 x 23.700 |
| Unit Weight (lbs.) | 65.3 |
| Unit Weight (kg) | 29.62 |
| Mounting Details | Included mounting bracket enables installation in 4 post racks. Two ABS mounting stands enables the UPS to be configured in an upright tower orientation. |
| **ENVIRONMENTAL** | |
| Operating Temperature Range | 32° to 104°F (0° to 40°C) |
| Storage Temperature Range | 5° to 122°F (-15° to 50°C) |
| Relative Humidity | 20 to 95%, non-condensing |
| AC Mode BTU / Hr. (Full Load) | 109 |
| AC Mode Efficiency Rating (100% Load) | 96% |
| Battery Mode Heat Dissipation (BTU/Hr) @ Full Load | 591 |
| Operating Elevation | 0-10000 ft. (0-3000 m) |
| Storage Elevation (ft.) | 0-32,808 |
| Audible Noise | 40 dBA maximum, front side 1m |
| Storage Elevation (m) | 0-10,000 |
| **COMMUNICATIONS** | |
| Network Management Cards |  <a class="productLink" href="//tripplite.eaton.com/Network-Card-Eaton-Tripp-Lite-Series-UPS-Systems~WEBCARDLXE">WEBCARDLXE</a>  |
| Network Monitoring Port Description | Pre-installed WEBCARDLXE supports detailed monitoring and management of UPS and site power conditions. Not compatible with WEBCARDLX. |
| PowerAlert Software | For local monitoring via the UPS's built-in communication ports, download PowerAlert Office software at https://www.tripplite.com/poweralert |
| Communications Cable | Micro-USB, USB and DB9 cabling included |
| Network Monitoring Port | RJ45 Network port, Micro-USB Configuration/Console port, USB A port supports a variety of Environsense2 environmental and control modules. See Accessories>Management Hardware section for more information about these modules. |
| EPO Port | RJ11 interface jack with 4-meter cable included. Supports normally open and normally closed EPO systems |
| SNMP Compatibility | SNMP V1, V2c, V3 |
| Network UPS Tools (NUT) Compatibility | NUT compatible. See a full list of NUT compatible Tripp Lite UPS systems at https://networkupstools.org/stable-hcl.html?manufacturer=Tripp%20Lite |
| Network Compatibility | 10 Mbps; 100 Mbps (Fast Ethernet) |
| Network Management Card Description | Network management card included. Network slot does not support WEBCARDLX. |
| Communications Interface | Contact closure; DB9 Serial; EPO (emergency power off); Pre-installed network card; USB (HID enabled) |
| Emergency Power Off (EPO)/Remote On-Off (ROO) | Yes |

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| **LINE / BATTERY TRANSFER** | |
| Transfer Time | 1-4ms for normal mode, >5ms for sensitive mode |
| Low Voltage Transfer to Battery Power (Setpoint) | 80 (adjustable to 70V) |
| High Voltage Transfer to Battery Power (Setpoint) | 151 |
| **FEATURES & SPECIFICATIONS** | |
| Cold Start (Startup in Battery Mode During a Power Failure) | Cold-start operation supported |
| High Availability UPS Features | Auto Probe Monitoring and Reboot (included); Automatic Voltage Regulation (AVR); Hot swappable batteries; Remote management; Sine wave output; Surge/noise protection |
| Green Energy-Saving Features | Greater than 95% efficiency - GREEN UPS; Individually controllable load banks |
| Grounding Details | Rear panel grounding lug |
| **APPLICATIONS** | |
| UPS Applications | High-End Desktop/Small Network; Large Network |
| **STANDARDS & COMPLIANCE** | |
| Product Certifications | CSA (Canada); NOM (Mexico); UL 1778 |
| Product Compliance | RoHS; FCC Part 15 Class A (USA) |
| **WARRANTY & SUPPORT** | |
| Product Warranty Period (Worldwide) | 2-year warranty, 3 year with registration. Note: <a class="insuranceLink" href="//tripplite.eaton.com/support/product-warranty-registration">Registration is required</a> for 3-year warranty. |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico) | $250,000 <a class="insuranceLink" href="//tripplite.eaton.com/support/insurance-policy">Ultimate Lifetime Insurance</a>  |

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