

SmartPro 120V 2200VA 1920W Line-Interactive Sine Wave UPS, 2U, Extended Run, WEBCARDLX, LCD, USB, DB9

MODEL NUMBER: **SM2200RML2UPN**



Line-interactive UPS offers network-grade power protection for critical network applications, including telecom, security and digital signage.

Features

2.2kVA/1.92kW/120V Battery Backup for PC Networks, Security Systems or Digital Signage The SmartPro® line-interactive SM2200RML2UPN UPS system with AVR provides reliable battery backup and AC power protection against blackouts, brownouts, overvoltages, surges and line noise that can damage valuable electronics or destroy data. The eight-outlet 120V battery backup with 0.9 power factor is ideal protection for small networks, wiring closets, security systems, telecom, high-end PC gaming, digital signage equipment and other professional applications, including retail, casino and hotel/motel management.

Reliable, Expandable Battery Backup Keeps You Operational Through Power Outages Backup support allows you to work through short power failures and gives you enough time to safely save files and shut down your system in case of a prolonged blackout. Backup time varies according to load, but the field-replaceable, hot-swappable internal battery should keep a half load (960W) powered as long as 12 minutes and a full load (1920W) up to 4.5 minutes. For mission-critical applications demanding scalable extended runtime, the UPS supports external battery packs, such as Tripp Lite's BP48V27-2US (sold separately).

Pre-Installed WEBCARDLX Network Interface Offers 24/7 Remote Access for Monitoring and Control The Java-free HTML5-based WEBCARDLX enables full remote access for site power and UPS status monitoring, configuration, control and email notifications via secure web browser, SNMP, telnet or SSH. It supports 10/100 Mbps auto-sensing for optimum communication with an Ethernet network. Automated alerts help prevent accidental overloads, power loss and downtime. WEBCARDLX allows you to use the Auto Probe feature, which can prevent costly service calls by automatically rebooting non-responsive network devices.

8 NEMA Outlets Protect Your Connected Components Four 5-15R and four 5-15/20R outlets provide battery backup, 570 joules of surge protection and voltage regulation for your crucial components. Two independently switched two-outlet load banks enable both scheduled and real-time remote rebooting and load shedding.

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

Highlights

- Protects equipment against blackouts, brownouts, overvoltages, surges and line noise
- Keeps AC power running during blackouts to allow time for file saves and safe shutdown
- Maintains continuous 120V nominal output during brownouts and overvoltages
- Pre-installed WEBCARDLX network interface supports Auto Probe feature
- Easy-to-read LCD allows real-time monitoring of voltage, battery status and other data

Applications

- Protect your small network server and other network components against power surges, line noise, brownouts, overvoltages and blackouts
- Operate essential equipment during short-term power outages using battery backup power
- Shut down desktop PCs and other equipment without data loss during long-term power outages
- Connect high-end security systems, casino gaming machines or digital signage in a small network

Package Includes

- SM2200RML2UPN 120V 2200VA 1920W Line-Interactive UPS with 8 Outlets
- Pre-installed WEBCARDLX network management card
- USB cable
- DB9 cable
- EPO cable
- Rack-mounting hardware
- Owner's manual

brownouts and overvoltages. The SM2200RML2UPN can correct brownouts as low as 83V and overvoltages as high as 145V back to nominal 120V power continuously, all 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.

Designed for High Efficiency to Help You Save Money and Protect the Environment A 96% efficiency rating reduces BTU emissions, energy consumption and, ultimately, your energy costs.

Silenceable Alarm and Easy-to-Read LCD Keep You Informed Around the Clock The front-panel LCD lets you monitor important data, such as load level, power factor, voltage, battery charge and estimated runtimes. It rotates for comfortable viewing in both rack and tower configurations. The audible alarm sounds for power failure, low battery and overloads. You may silence it using the built-in switch or disable it.

Advanced Communications Ports Allow for Automatic Saves and Shutdowns RS-232 and HID-compliant USB ports connect to a computer running Tripp Lite's free downloadable PowerAlert® software to enable safe unattended file saves and system shutdown in case of a prolonged power failure. The EPO port supports emergency shutdown in large facilities. Cables are included.

Versatile Installation Options Hardware is included for mounting the Tripp Lite SmartPro UPS system in 2U of space in an EIA-standard 19-inch 4-post rack. Using optional mounting accessories (sold separately), you can adapt the SM2200RML2UPN for 2-post (2POSTRMKITWM), front-rail (UPSHDEARKIT), 4-post short-depth (4POSTRAILKITWM), tower (2-9USTAND) or wall mounting (2POSTRMKITWM). The 10-ft. (3.05 m) power cord with NEMA 5-20P plug connects to a compatible AC outlet.

Specifications

OVERVIEW	
UPC Code	037332257819
UPS Type	Line-Interactive
INPUT	
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
Input Phase	Single-Phase
OUTPUT	
Output Volt Amp Capacity (VA)	2200
Output Capacity (kVA)	2.20

Output Watt Capacity (Watts)	1920
Output kW Capacity (kW)	1.92
Output Capacity Details	Supports 1920 watts output capacity when used with external battery packs
Power Factor	0.87
Nominal Voltage Details	120v nominal output in battery mode
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

BATTERY

Battery Type	Valve Regulated Lead Acid (VRLA)
Full Load Runtime (min.)	4.5 min. (1920w)
Half Load Runtime (min.)	12 min. (960w)
Expandable Battery Runtime	Extended runtime supported via optional external battery packs
Expandable Runtime	Yes
External Battery Pack Compatibility	 BP48V24-2U (limit 1); BP48V60RT-3U (multi-pack compatible); BP48V27-2US (multi-pack compatible)
DC System Voltage (VDC)	48
Battery Recharge Rate (Included Batteries)	Less than 4.5 hours from 10% to 90% (typical, full load discharge)
Battery Access	Front panel battery access door
Internal UPS Replacement Battery Cartridge	 RBC94-2U
Battery Replacement Description	Hot-swappable, user replaceable batteries

VOLTAGE REGULATION

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
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)
Switches	3 pushbutton switches control OFF / ON power status, MODE selection and MUTE / ENTER control functions
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
SURGE / NOISE SUPPRESSION	
UPS AC Suppression Joule Rating	570
UPS AC Suppression Response Time	Instantaneous
EMI / RFI AC Noise Suppression	Yes
PHYSICAL	
Primary Form Factor	Rackmount
Cooling Method	Fan
Included Mounting Accessory Description	Included 4POSTRAILKIT mounting bracket enables installation in 4 post racks from 20.5 to 36 inches (521 to 914mm)
Installation Form Factors Supported with Included Accessories	4 post 19 inch rackmount
Installation Form Factors Supported with Optional Accessories	2 post rackmount (2POSTRMKITWM); 2-4 post front rail rackmount (UPSHDEARKIT); 4 post rackmount short-depth (4POSTRAILKITWM); Tower (2-9USTAND); Wallmount (2POSTRMKITWM)
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 2-9USTAND enables upright tower UPS placement; 2POSTRMKITWM enables wall-mount and 2-post rackmount installation; 4POSTRAILKITWM enables installation in 4-post short-depth racks from 14.5 to 23.5 inches (368 to 597mm); UPSHDEARKIT 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
Rack Height	2U
Shipping Dimensions (hwd / in.)	8.80 x 21.70 x 24.00
Shipping Weight (kg)	36.29
UPS Housing Material	Steel
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
ENVIRONMENTAL	
Operating Temperature Range	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius.
Storage Temperature Range	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius.
Relative Humidity	0 to 95%, non-condensing
AC Mode BTU / Hr. (Full Load)	250
Battery Mode BTU / Hr. (Full Load)	980
AC Mode Efficiency Rating (100% Load)	96%
Audible Noise	45 dBA maximum, front side 1m
COMMUNICATIONS	
Network Management Cards	 WEBCARDLX
Network Monitoring Port Description	Pre-installed WEBCARDLX Network Management Card interface
PowerAlert Software	For local monitoring via the UPS's built-in USB / Serial ports, download PowerAlert Local software at https://www.tripplite.com/poweralert
Communications Cable	USB and DB9 cabling included
WatchDog Compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
Network UPS Tools Compatibility	NUT compatible. See the full list of Tripp Lite NUT compatible UPS systems at http://www.networkupstools.org/stable-hcl.html?manufacturer=Tripp%20Lite
Network Management Card Description	Network management card included
Communications Interface	DB9 Serial; EPO (emergency power off); Pre-installed network card; Slot for SNMP/Web interface; USB (HID enabled)
LINE / BATTERY TRANSFER	
Transfer Time	5 milliseconds (line to battery mode); 1 millisecond (battery to line mode)
Low Voltage Transfer to Battery Power (Setpoint)	83

High Voltage Transfer to Battery Power (Setpoint)	145
FEATURES & SPECIFICATIONS	
Grounding Lug	Back panel grounding lug
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); Expandable battery backup; 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
STANDARDS & COMPLIANCE	
UPS Certifications	Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category A (EMI)
Certification Details	Series Number: AGSM7012
WARRANTY	
Product Warranty Period (Worldwide)	2-year warranty, 3 year with registration. Note: Registration is required for 3-year warranty.
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$250,000 Ultimate Lifetime Insurance

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