

SmartPro 120V 2.2kVA 1.92kW Line-Interactive Sine Wave UPS, Lithium Iron Phosphate (LiFePO4) Batteries, 2U, LCD, USB, DB9

MODEL NUMBER: **SMART2200RM2UL**



Protects connected mission-critical equipment against damage, downtime and data loss due to blackouts, brownouts, power surges and line noise. Special LiFePO4 battery provides long service life and more cycles.

Description

The SMART2200RM2UL SmartPro® 120V 2.2kVA 1.92kW Line-Interactive Sine Wave UPS provides battery backup and AC power protection against blackouts, brownouts, power surges and line noise that can damage electronics or destroy data. Ideal for backing up servers and network storage devices, the SMART2200RM2UL switches to 2.2kVA/1.92kW battery mode in milliseconds to keep your connected equipment running long enough to save files and shut down safely with no data loss.

The innovative lithium iron phosphate (LiFePO4) internal battery more than doubles the service life of an equivalent lead acid battery, and offers up to three times more charge/discharge cycles. It recharges to 100-percent capacity in less than two hours, making the SMART2200RM2UL an ideal backup in case of power outage. It provides 11.7 minutes of support at half load and 5.1 minutes at full load.

Featuring eight outlets and a 10-foot (3.1-meter) power cord with NEMA 5-20P input, the SMART2200RM2UL maintains 120V nominal output over an input range of 83V to 147V without using battery power. EMI/RFI noise filtering improves your equipment's performance and prevents damage. A 570-joule surge suppression rating protects your equipment from harmful power surges. With free downloadable PowerAlert® software (available via free download), the SMART2200RM2UL enables safe unattended system shutdown and file saves in case of a prolonged power failure.

Features

Protects Mission-Critical Rack-Mounted Equipment Provides fully regulated sine wave AC output for servers, network storage devices, telecom hardware and other applications where long battery lifespan is critical. Audible alarm signals loss of utility power, overload and low battery. 4 NEMA 5-15R & 4 NEMA 5-15/20R outlets. 10-ft. (3.05 m) power cord with 120V NEMA 5-20P input. 570-joule surge suppression rating. 0.9 power factor rating. 97% line-mode efficiency rating saves money in energy costs.

Superior LiFePO4 Battery Backup Compared to Equivalent Lead Acid Battery More than 2x the service life. Up to 3x more charge/discharge cycles. Recharges to 100% capacity in less than 2 hr. Weighs 60% less, reducing overall UPS weight. Supports half load up to 11.7 min. and full load up to 5.1 min.

2 Load Banks with Switchable Outlets Can control 2 outlets remotely to reboot equipment or shed nonessential loads.

Automatic Voltage Regulation (AVR) Maintains 120V nominal output over input range of 83V-145V without using battery power.

Highlights

- LiFePO4 battery offers longer life, more cycles and faster recharge
- 97% line-mode efficiency saves energy costs
- 4 NEMA 5-15R and 4 5-15/20R outlets—2 switchable via network interface
- Compatible with network management cards
- 11.7 min. runtime at half load; 5.1 min. at full load
- 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

- SMART2200RM2UL SmartPro 120V 2.2kVA 1.92kW Line-Interactive Sine Wave UPS
- USB cable
- DB9 cable
- EPO cable
- Rack-mounting hardware
- Owner's manual



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EMI/RFI Line Noise Filtering Removes electromagnetic and radio frequency interference that can disrupt or damage equipment's performance

Interactive LCD Screen Front-panel LCD with detailed UPS and site power status and operating data Rotates for easy viewing in rack-mount or tower configurations

Optional Network Management Cards Compatible with UPS management cards WEBCARDLX, SNMPWEBCARD and RELAYIOCARD

Communications Ports USB and DB9 ports enable data-saving unattended shutdown when used with PowerAlert software (available via free download at tripplite.eaton.com/products/power-alert) EPO port supports emergency shutdown in large facilities

Versatile Installation Options Hardware included for 4-post mounting in 2U of EIA-standard 19 in. rack Mounts on wall or 2-post rack with optional 2POSTRMKITWM accessory Mounts in upright tower position with optional 2-9USTAND accessory

Backed by Ultimate Lifetime Insurance \$250,000 Ultimate Lifetime Insurance covers any connected components (U.S., Canada and Puerto Rico only)

Specifications

| OVERVIEW | |
|------------------------------------|-------------------------------------|
| UPC Code | 037332192646 |
| UPS Type | Line-Interactive |
| INPUT | |
| Input Phase | Single-Phase |
| Rated input current (Maximum Load) | 16A (120V) |
| 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 |
| Power Factor | .87 |
| Nominal Voltage Details | 120v nominal output in battery mode |
| Frequency Compatibility | 60 Hz |



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| Output Voltage Regulation (Line Mode) | -14%, +6% |
| Output Voltage Regulation (Battery Mode) | +/- 5% |
| Load Management Receptacles | Two switchable single-outlet load banks |
| 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 | Lithium-ion (LiFePO4) |
| Runtime Full Load (min.) | 5.1 min. (1920W) |
| Runtime Half Load (min.) | 11.7 min. (960W) |
| Expandable Runtime | No |
| DC System Voltage (VDC) | 48 |
| Battery Recharge Rate (Included Batteries) | 1.4 hours from 10% to 90% (typical, full load discharge) |
| VOLTAGE REGULATION | |
| Voltage Regulation Description | Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 83 to 145 |
| Overvoltage Correction | Input voltages between 127 and 145 are reduced by 12% |
| Undervoltage Correction | Input voltages between 108 and 96 are boosted by 12% |
| Severe Undervoltage Correction | Input voltages between 83 and 95 are boosted by 24% |
| 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 UPS startup, power-failure, low-battery, overload, UPS fault and remote shutdown conditions |
| SURGE / NOISE SUPPRESSION | |
| EMI / RFI AC Noise Suppression | Yes |
| AC Suppression Joule Rating | 570 |
| AC Suppression Response Time | Instantaneous |





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| 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) | 221 |
| AC Mode Efficiency Rating (100% Load) | 97% |
| Battery Mode Heat Dissipation (BTU/Hr) @ Full Load | 1343 |
| Audible Noise | 42.2 dBA typical / 50.6 dBA maximum, front side 1m |
| COMMUNICATIONS | |
| Network Management Cards | WEBCARDLXE ; RELAYIOCARD |
| Network Monitoring Port Description | Supports detailed monitoring of UPS and site power conditions |
| Communications Cable | USB, DB9 and EPO cabling included |
| WatchDog Compatibility | Supports Watchdog application, OS and hard-reboot restart options for remote applications |
| Network UPS Tools (NUT) Compatibility | NUT compatible. See a full list of NUT compatible Tripp Lite UPS systems at https://networkupstools.org/stable-hcl.html?manufacturer=Tripp%20Lite |
| Network Management Card Description | Network management card optional |
| Communications Interface | DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface; USB (HID enabled) |
| LINE / BATTERY TRANSFER | |
| Transfer Time | 5 milliseconds (AC to battery mode), 1 millisecond (Battery to AC mode) |
| Low Voltage Transfer to Battery Power (Setpoint) | 83 |
| High Voltage Transfer to Battery Power (Setpoint) | 145 |
| FEATURES & SPECIFICATIONS | |
| Cold Start (Startup in Battery Mode During a Power Failure) | Cold-start operation supported |
| High Availability UPS Features | Auto Probe Monitoring and Reboot (requires WEBCARDLX); Automatic Voltage Regulation (AVR); 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 |
| APPLICATIONS | |
| UPS Applications | Large Network |
| STANDARDS & COMPLIANCE | |
| Product Certifications | CSA (Canada); UL 1778 |
| Product Compliance | RoHS; FCC Part 15 Class A (USA) |



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| WARRANTY & SUPPORT | |
|--|--|
| Product Warranty Period (Worldwide) | 5-year limited warranty |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico) | \$250,000 Ultimate Lifetime Insurance |

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<https://tripplite.eaton.com>

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