# SmartPro UPS, Lithium Battery Backup - 120V 1500VA / 1440W Line Interactive, 2U, Sine Wave, LCD

MODEL NUMBER: **SMART1500RM2UL**



Lithium UPS protects connected equipment against damage, downtime and data loss due to blackouts, power surges and line noise.

## Features

**Protects Rack-Mounted Equipment**This UPS provides fully regulated sine wave AC output for servers, telecom hardware and other applications where long battery lifespan is critical. Plug your equipment into the eight NEMA 5-15R outlets. Two outlets are switchable, allowing you to power connected equipment on and off remotely to reset or reboot connected equipment or to shed less significant loads to extend battery runtime for more critical equipment. All outlets are protected by 570-joule network-grade surge protection to fight off damaging power surges and spikes.

**Superior LiFePO4 Battery Backup Compared to Lead Acid Battery**With more than double the service life, three times more charge/discharge cycles and 60% the weight of comparable lead-acid batteries, the LiFePO4 battery features 120 volt battery backup and recharges to 100% capacity in less than two hours.

**Automatic Voltage Regulation (AVR) Conserves Battery Power**AVR maintains 120V nominal output over input range of 83V–145V without using battery power.

**EMI/RFI Line Noise Filtering Keeps Equipment Performing in Top Form**Noise filtering removes electromagnetic and radio frequency interference that can disrupt equipment performance.

**Multi-Function LCD and Audible Alarms Keep You Informed**The front-panel LCD information and configuration screen displays detailed UPS and site power status and operating data, as well as input and output voltage, operating mode, alarm function and additional options. An alarm sounds to warn you of power failure, low battery, overload, UPS fault and remote shutdown conditions. The LCD screen rotates for easy viewing in rack-mount or tower configurations.

**Optional Network Management Cards**The SMART1500RM2UL is compatible with UPS management cards, such as WEBCARDLX, for detailed monitoring of UPS and site power conditions.

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

## Highlights

- LiFePO4 battery offers longer life, more cycles and faster recharge
- 97% line-mode efficiency saves energy and operating costs
- 8 NEMA 5-15R outlets—2 switchable via network interface
- 120V NEMA 5-15P input with 10-ft. (3.05 m) power cord to connect to distant 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

## Applications

- Deliver regulated sine wave output to connected equipment in a network closet or small-business network
- Protect point-of-sale and VoIP networks against power surges and spikes
- Keep your server room operational during short power failures and allow time for safe shutdowns during longer blackouts
- Back up servers, network storage devices, telecom hardware and other applications where long battery lifespan is critical
- Provide high-level power protection with a low-maintenance design

## Package Includes

- SMART1500RM2UL SmartPro 120V 1.5kVA 1.44kW Line-Interactive Sine Wave UPS
- USB cable
- DB9 cable
- EPO cable
- Rack-mounting hardware
- Owner’s manual

**Versatile Installation Options**The SMART1500RM2UL includes hardware for 4-post mounting in 2U of EIA-standard 19-inch rack. This UPS mounts on a wall, 2-post rack or in an upright tower position.

**High Efficiency Operation**Operating with a high 97% line-mode efficiency, this 1.5kVA UPS system saves BTU heat output and energy costs

**Ultimate Lifetime Insurance and 5-Year Warranty**This UPS system is backed by $250,000 Ultimate Lifetime Insurance, which covers any connected components (U.S., Canada and Puerto Rico only). It also has a 5-year limited warranty.

# Specifications

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| **OVERVIEW** | |
| UPC Code | 037332213587 |
| UPS Type | Line-Interactive |
| **INPUT** | |
| Input Phase | Single-Phase |
| Rated input current (Maximum Load) | 12A (120V) |
| Nominal Input Voltage(s) Supported | 120V AC |
| UPS Input Connection Type | 5-15P |
| UPS Input Cord Length (ft.) | 10 |
| UPS Input Cord Length (m) | 3.1 |
| Recommended Electrical Service | 15A 120V |
| Maximum Input Amps | 12 |
| **OUTPUT** | |
| Output Capacity (VA) | 1500 |
| Output Capacity (kVA) | 1.5 |
| Output Capacity (Watts) | 1440 |
| Output Capacity (kW) | 1.44 |
| Power Factor | 0.96 |
| 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 switchable single-outlet load banks |
| Output AC Waveform (AC Mode) | Pure Sine wave |
| Output AC Waveform (Battery Mode) | Pure Sine wave |

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| Nominal Output Voltage(s) Supported | 110V; 115V; 120V |
| Output Receptacles | (8) 5-15R |
| Individually Controllable Load Banks | Yes |
| **BATTERY** | |
| Battery Type | Lithium-ion (LiFePO4) |
| Runtime Full Load (min.) | 7.1 min. (1440W) |
| Runtime Half Load (min.) | 15.4 min. (720W) |
| 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 |
| **PHYSICAL** | |
| Primary Form Factor | Rackmount |
| Rack Height | 2U |
| Cooling Method | Fan |
| Installation Form Factors Supported with Included Accessories | 4 post 19 inch rackmount |

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| Installation Form Factors Supported with Optional Accessories | 2 post rackmount ( <a class="productLink" href="//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 class="productLink" href="//tripplite.eaton.com/Heavy-Duty-2-post-Front-Mounting-Ear-Kit~UPSHDEARKIT">UPSHDEARKIT</a> ); 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> ); Tower ( <a class="productLink" href="//tripplite.eaton.com/2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND">2-9USTAND</a> ); Wallmount ( <a class="productLink" href="//tripplite.eaton.com/2-Post-Rack-Mount-Wall-Mount-Adapter-Kit-select-Rack-Mount-UPS-Systems~2POSTRMKITWM">2POSTRMKITWM</a> ) |
| Minimum Required Rack Depth (cm) | 58.42 |
| Minimum Required Rack Depth (inches) | 23 |
| Optional Mounting Accessory Notes | Optional  <a class="productLink" href="//tripplite.eaton.com/2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND">2-9USTAND</a>  enables upright tower UPS placement;  <a class="productLink" href="//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 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);  <a class="productLink" href="//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) | 494 |
| Primary UPS Height (mm) | 87 |
| Primary UPS Width (mm) | 440 |
| Shipping Dimensions (hwd / in.) | 10.24 x 25.59 x 27.76 |
| Shipping Dimensions (hwd / cm) | 26.01 x 65.00 x 70.51 |
| Shipping Weight (lbs.) | 61.07 |
| Shipping Weight (kg) | 27.70 |
| UPS Housing Material | Steel |
| UPS Power Module Dimensions (hwd, cm) | 8.71 x 43.99 x 49.43 |
| UPS Power Module Dimensions (hwd, in.) | 3.43 x 17.32 x 19.46 |
| UPS Power Module Weight (kg) | 9.58 |
| UPS Power Module Weight (lbs.) | 21.12 |
| Unit Weight (lbs.) | 21.120 |
| Unit Weight (kg) | 9.58 |
| Mounting Details | Included 4POSTRAILKIT mounting bracket enables installation in 4 post racks from 20.5 to 36 inches (521 to 914mm) |
| **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 | 0 to 95%, non-condensing |
| AC Mode BTU / Hr. (Full Load) | 130 |
| AC Mode Efficiency Rating (100% Load) | 97% |
| Audible Noise | 50.4 dBA maximum, front side 1m |

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| **COMMUNICATIONS** | |
| Network Management Cards |  <a class="productLink" href="//tripplite.eaton.com/Network-Card-Eaton-Tripp-Lite-Series-UPS-Systems~WEBCARDLXE">WEBCARDLXE</a> ; 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; High-End Desktop/Small Network |
| **STANDARDS & COMPLIANCE** | |
| Product Certifications | CSA (Canada); UL 1778 |
| Product Compliance | RoHS; FCC Part 15 Class A (USA) |
| **WARRANTY & SUPPORT** | |
| Product Warranty Period (Worldwide) | 5-year limited 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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