# SmartPro 120V 1.5kVA 1.35kW Line-Interactive Sine Wave UPS, 2U, Network Card Options, LCD, USB, DB9, 8 Outlets

MODEL NUMBER: **SMART1500RM2U**



Protects connected mission-critical equipment against damage, downtime and data loss due to blackouts, brownouts, power surges and line noise. Ideal solution for data centers, VoIP systems and network closets.

## Description

The SMART1500RM2U SmartPro 120V 1.5kVA 1.35kW 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 SMART1500RM2U switches to battery mode in milliseconds to keep your connected equipment running long enough to save files and shut down safely with no data loss.

Featuring eight NEMA 5-15R outlets (four switchable) and a 10-foot power cord with 120V NEMA 5-15P input, the SMART1500RM2U has an internal battery that provides 13 minutes of support at half load and 4.5 minutes at full load. A front-panel LCD screen lets you monitor important data, such as load level, voltage, battery charge and estimated runtimes.

Automatic voltage regulation (AVR) 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 Tripp Lite's PowerAlert® software (available via free download), the SMART1500RM2U 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 and telecom hardware

## Highlights

- Corrects under- and overvoltages from 83V to 147V
- 8 NEMA 5-15R outlets—4 switchable via network interface
- Network power management and control capability
- Interactive LCD monitoring screen
- 13 min. runtime at half load; 4.5 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

- SMART1500RM2U SmartPro 120V 1.5kVA 1.35kW Line-Interactive Sine Wave UPS
- USB cable
- DB9 cable
- EPO cable
- Mounting hardware
- Owner's manual

- Audible alarm signals loss of utility power, overload, low battery and fault conditions

- 8 NEMA 5-15R outlets

- 10 ft. power cord with 120V NEMA 5-15P input

- 0.9 power factor rating

- 570-joule surge suppression rating

**Reliable Battery Backup**

- Supports half load up to 13 min. and full load up to 4.5 min.

- Internal batteries designed for hot-swap field replacement

- 95% line-power efficiency rating saves money in energy costs

**2 Load Banks with Switchable Outlets**

- Can control 4 outlets remotely to reboot equipment or shed nonessential loads

**Automatic Voltage Regulation (AVR)**

- Maintains 120V nominal output over input range of 83V–147V without using battery power

**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 signals operating mode, load level, voltage, battery charge and estimated runtimes

- Rotates for easy viewing in rack-mount or tower configurations

**Network Management Cards**

- Compatible with Tripp Lite UPS management card options TLNETCARD, WEBCARDLX, SNMPWEBCARD and RELAYIOCARD

**Communications Ports**

- USB & Serial ports enable data-saving unattended shutdown when used with Tripp Lite's PowerAlert software, available via FREE download from www.tripplite.com/poweralert

- 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

# Specifications

| OVERVIEW | |
| --- | --- |
| UPC Code | 037332119209 |
| UPS Type | Line-Interactive |

| INPUT | |
| --- | --- |
| Rated input current (Maximum Load) | 12A |
| Nominal Input Voltage(s) Supported | 120V AC |
| UPS Input Connection Type | 5-15P |
| Input Circuit Breakers | 15A |
| UPS Input Cord Length (ft.) | 10 |
| UPS Input Cord Length (m) | 3.1 |
| Recommended Electrical Service | 15A 120V |
| Input Phase | Single-Phase |

| OUTPUT | |
| --- | --- |
| Output Volt Amp Capacity (VA) | 1500 |
| Output kVA Capacity (kVA) | 1.5 |
| Output Watt Capacity (Watts) | 1350 |
| Output kW Capacity (kW) | 1.35 |
| Power Factor | 0.9 |
| Nominal Voltage Details | 120v nominal output in battery mode |
| Frequency Compatibility | 60 Hz |
| Output Voltage Regulation (Line Mode) | -21%, +8% |
| Output Voltage Regulation (Battery Mode) | +/- 5% |
| Load Management Receptacles | Two switchable two-outlet 5-15R load banks |
| Output AC Waveform (AC Mode) | Sine wave |
| Output AC Waveform (Battery Mode) | Pure Sine wave |
| Nominal Output Voltage(s) Supported | 110V; 115V; 120V |
| Output Receptacles | (8) 5-15R |
| Individually Controllable Load Banks | Yes |

| BATTERY | |
| --- | --- |
| Full Load Runtime (min.) | 4.5 min. (1350w) |
| Half Load Runtime (min.) | 13 min. (675w) |

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| DC System Voltage (VDC) | 36 |
| Battery Recharge Rate (Included Batteries) | Less than 4.5 hours from 10% to 90% (typical, full load discharge) |
| Internal UPS Replacement Battery Cartridge |  <a class="productLink" href="//www.tripplite.com/2U-UPS-Replacement-36VDC-Battery-Cartridge-1-set-3-select-Tripp-Lite-SmartPro-UPS~RBC93-2U">RBC93-2U</a>  |
| Battery Access | Front panel battery access door |
| Battery Replacement Description | Hot-swappable, user replaceable batteries |
| Expandable Runtime | No |

**VOLTAGE REGULATION**

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|---|---|
| Voltage Regulation Description | Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 83 to 147 |
| Overvoltage Correction | Input voltages between 128 and 147 are reduced by 12% |
| Undervoltage Correction | Input voltages between 83 and 107 are boosted by 14% |

**USER INTERFACE, ALERTS & CONTROLS**

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|---|---|
| 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**

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| UPS AC Suppression Joule Rating | 570 |
| UPS AC Suppression Response Time | Instantaneous |
| EMI / RFI AC Noise Suppression | Yes |

**PHYSICAL**

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| 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 ( <a class="productLink" href="//www.tripplite.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="//www.tripplite.com/Heavy-Duty-2-post-Front-Mounting-Ear-Kit~UPSHDEARKIT">UPSHDEARKIT</a> ); 4 post rackmount short-depth ( <a class="productLink" href="//www.tripplite.com/4-Post-1U-Universal-Adjustable-Rack-Mount-Shelf-Kit-for-Wall-Mount-Racks~4POSTRAILKITWM">4POSTRAILKITWM</a> ); Tower ( <a class="productLink" href="//www.tripplite.com/2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND">2-9USTAND</a> ); Wallmount ( <a class="productLink" href="//www.tripplite.com/2-Post-Rack-Mount-Wall-Mount-Adapter-Kit-select-Rack-Mount-UPS-Systems~2POSTRMKITWM">2POSTRMKITWM</a> ) |
| Minimum Required Rack Depth (cm) | 41.78 |

| Minimum Required Rack Depth (inches) | 16.45 |
|---|---|
| Optional Mounting Accessory Notes | Optional  <a class="productLink" href="//www.tripplite.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="//www.tripplite.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="//www.tripplite.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="//www.tripplite.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 Form Factor | Rackmount |
| Primary UPS Depth (mm) | 342 |
| Primary UPS Height (mm) | 88 |
| Primary UPS Width (mm) | 439 |
| Rack Height | 2U |
| Shipping Dimensions (hwd / cm) | 22.10 x 50.80 x 59.69 |
| Shipping Dimensions (hwd / in.) | 8.70 x 20.00 x 23.50 |
| Shipping Weight (kg) | 26.54 |
| Shipping Weight (lbs.) | 58.50 |
| UPS Housing Material | Steel |
| UPS Power Module Dimensions (hwd, cm) | 8.76 x 43.94 x 34.16 |
| UPS Power Module Dimensions (hwd, in.) | 3.45 x 17.3 x 13.45 |
| UPS Power Module Weight (kg) | 21.09 |
| UPS Power Module Weight (lbs.) | 46.5 |

## 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) | 267 |
| Battery Mode BTU / Hr. (Full Load) | 1012 |
| AC Mode Efficiency Rating (100% Load) | 95% |
| Audible Noise | 45 dBA maximum, front side 1m |

## COMMUNICATIONS

| Network Management Cards |  <a class="productLink" href="//www.tripplite.com/SNMP-Web-Management-Accessory-Card-SmartPro-SmartOnline-UPS-Systems~SNMPWEBCARD">SNMPWEBCARD</a> ;  <a class="productLink" href="//www.tripplite.com/Web-Management-Accessory-Card-SmartPro-SmartOnline-UPS-Systems~TLNETCARD">TLNETCARD</a> ;  <a class="productLink" href="//www.tripplite.com/Web-Management-Accessory-Card~WEBCARDLX">WEBCARDLX</a> ;  <a class="productLink" href="//www.tripplite.com/Programmable-Relay-I-O-Card~RELAYIOCARD">RELAYIOCARD</a>  |
|---|---|

| | |
|---|---|
| Network Monitoring Port Description | Supports detailed monitoring of UPS and site power conditions |
| PowerAlert Software | For local monitoring via the UPS's built-in communication ports , download PowerAlert Local software at http://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 Lite |
| Communications Interface | DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface; USB (HID enabled) |

| LINE / BATTERY TRANSFER | |
|---|---|
| Transfer Time | 2-4 milliseconds |
| Low Voltage Transfer to Battery Power (Setpoint) | 83 |
| High Voltage Transfer to Battery Power (Setpoint) | 147 |

| SPECIAL FEATURES | |
|---|---|
| Grounding Lug | Back panel grounding lug |
| Cold Start (Startup in Battery Mode During a Power Failure) | Cold-start operation supported |
| High Availability UPS Features | Hot swappable batteries; Auto Probe Monitoring and Reboot (requires WEBCARDLX) |
| 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 B (EMI); ROHS (Restriction of Hazardous Substances) |

| WARRANTY | |
|---|---|
| Product Warranty Period (Worldwide) | 2-year warranty, 3 year with registration. Note: <a class="insuranceLink" href="//www.tripplite.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="//www.tripplite.com/support/insurance-policy">Ultimate Lifetime Insurance</a>  |