

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

MODEL NUMBER: **SM1500RML2UTAA**



### Description

The SM1500RML2UTAA 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 SM1500RML2UTAA switches to 1.5kVA/1.35kW battery mode in milliseconds to keep your connected equipment running long enough to save files and shut down safely with no data loss.

Four of the eight NEMA 5-15R outlets may be switched off remotely to reboot equipment or shed nonessential loads to maximize battery backup time for mission-critical equipment. The internal battery provides 14 minutes of support at half load (675W) and 4.9 minutes at full load (1.35kW). Adding optional external battery packs, such as Tripp Lite's [BP36V15-2U](#), provides extended runtime.

Automatic voltage regulation (AVR) maintains 120V nominal output over an input range of 83V to 145V 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 SM1500RML2UTAA enables safe unattended system shutdown and file saves in case of a prolonged power failure. Compatible with Tripp Lite UPS management card options, including [TLNETCARD](#), [WEBCARDLX](#) and [SNMPWEBCARD](#).

### Features

#### Protects Mission-Critical Rack-Mounted Equipment

- Provides fully regulated sine wave AC output for servers, network storage devices and telecom hardware
- Audible alarm signals loss of utility power, overload, low battery and more
- 8 NEMA 5-15R outlets
- 10 ft. power cord with 120V NEMA 5-15P input
- 570-joule surge suppression rating

#### Reliable Battery Backup with Expandable Runtime

- Supports half load up to 14 min. and full load up to 4.9 min.

### Highlights

- Corrects under- and overvoltages from 83V to 145V
- 8 NEMA 5-15R outlets—4 switchable via network interface
- Network power management and control capability
- Expandable runtime with optional external battery packs
- 14 min. runtime at half load; 4.9 min. at full load

### Package Includes

- SM1500RML2UTAA SmartPro 120V 1.5kVA 1.35kW Line-Interactive Sine Wave UPS
- USB cable
- DB9 cable
- EPO cable
- Mounting hardware
- Owner's manual



- Internal batteries designed for hot-swap field replacement
- Expandable runtime with optional external battery packs, such as Tripp Lite's [BP36V15-2U](#)
- 95% line-power efficiency rating saves money in energy costs

#### Switchable Outlets

- 2 load banks, each with 2 outlets controllable 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

#### 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 monitors power status, operating data, voltage, alarm and other options
- Rotates for easy viewing in rack-mount or tower configurations

#### Optional Network Management Cards

- Compatible with Tripp Lite UPS management cards, including [TLNETCARD](#), [WEBCARDLX](#) and [SNMPWEBCARD](#)

#### Communications Ports

- USB and DB9 ports enables data-saving unattended shutdown when used with Tripp Lite's PowerAlert software, available via FREE download from [www.tripplite.com/poweralert](http://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
- Mounts to front rails of 2- or 4-post rack with optional [UPSHDEARKIT](#) accessory

#### TAA Compliant

- Complies with Federal Trade Agreements Act (TAA) for GSA Schedule purchases

## Specifications

| OUTPUT                        |                                                                               |
|-------------------------------|-------------------------------------------------------------------------------|
| Output Volt Amp Capacity (VA) | 1500                                                                          |
| Output kVA Capacity (kVA)     | 1.5                                                                           |
| Output Watt Capacity (Watts)  | 1350                                                                          |
| Output kW Capacity (kW)       | 1.35                                                                          |
| Output Capacity Details       | Output is reduced to 1200 watts maximum when used with external battery packs |



|                                            |                                                                                                                                               |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Power Factor                               | 0.9                                                                                                                                           |
| Nominal Output Voltage(s) Supported        | 110V; 115V; 120V                                                                                                                              |
| 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%                                                                                                                                        |
| Output Receptacles                         | (8) 5-15R                                                                                                                                     |
| 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                                                                                                                                |
| <b>INPUT</b>                               |                                                                                                                                               |
| 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)                  | 3.0                                                                                                                                           |
| Recommended Electrical Service             | 15A 120V                                                                                                                                      |
| Input Phase                                | Single-Phase                                                                                                                                  |
| <b>BATTERY</b>                             |                                                                                                                                               |
| Full Load Runtime (min.)                   | 4.9 min. (1350w)                                                                                                                              |
| Half Load Runtime (min.)                   | 14 min. (675w)                                                                                                                                |
| Expandable Battery Runtime                 | Extended runtime supported via optional external battery packs                                                                                |
| External Battery Pack Compatibility        | <a href="#">BP36V15-2U</a> (limit 1); <a href="#">BP36V42-3U</a> (multi-pack compatible); <a href="#">BP36V27-2US</a> (multi-pack compatible) |
| DC System Voltage (VDC)                    | 36                                                                                                                                            |
| Battery Recharge Rate (Included Batteries) | Less than 4.5 hours from 10% to 90%                                                                                                           |
| Internal UPS Replacement Battery Cartridge | <a href="#">RBC93-2U</a>                                                                                                                      |
| Battery Access                             | Front panel battery access door                                                                                                               |
| Battery Replacement Description            | Hot-swappable, user replaceable batteries                                                                                                     |
| Expandable Runtime                         | Yes                                                                                                                                           |



| <b>VOLTAGE REGULATION</b>                                     |                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage Regulation Description                                | Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 83 to 145                                                                                                                                                                              |
| Oversvoltage Correction                                       | Input voltages between 127 and 145 are reduced by 12%                                                                                                                                                                                                                                   |
| Undersvoltage Correction                                      | Input voltages between 95 and 108 are boosted by 12%                                                                                                                                                                                                                                    |
| Severe Undersvoltage Correction                               | Input voltages between 83 and 94 are boosted by 24%                                                                                                                                                                                                                                     |
| <b>USER INTERFACE, ALERTS &amp; CONTROLS</b>                  |                                                                                                                                                                                                                                                                                         |
| 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                                                                                                                                                                     |
| <b>SURGE / NOISE SUPPRESSION</b>                              |                                                                                                                                                                                                                                                                                         |
| UPS AC Suppression Joule Rating                               | 570                                                                                                                                                                                                                                                                                     |
| UPS AC Suppression Response Time                              | Instantaneous                                                                                                                                                                                                                                                                           |
| EMI / RFI AC Noise Suppression                                | Yes                                                                                                                                                                                                                                                                                     |
| <b>PHYSICAL</b>                                               |                                                                                                                                                                                                                                                                                         |
| Included Mounting Accessory Description                       | Adjustable mounting rail kit included                                                                                                                                                                                                                                                   |
| Installation Form Factors Supported with Optional Accessories | 2 post rackmount( <a href="#">2POSTRMKITWM</a> ); Wallmount( <a href="#">2POSTRMKITWM</a> ); Tower( <a href="#">2-9USTAND</a> ); 2-4 post front rail rackmount( <a href="#">UPSHDEARKIT</a> )                                                                                           |
| Primary Form Factor                                           | Rackmount                                                                                                                                                                                                                                                                               |
| UPS Power Module Dimensions (hwd, in.)                        | 3.45 x 17.3 x 13.45                                                                                                                                                                                                                                                                     |
| UPS Power Module Dimensions (hwd, cm)                         | 8.76 x 43.94 x 34.16                                                                                                                                                                                                                                                                    |
| Rack Height (U Spaces)                                        | 2                                                                                                                                                                                                                                                                                       |
| Minimum Required Rack Depth (inches)                          | 20.0                                                                                                                                                                                                                                                                                    |
| Minimum Required Rack Depth (cm)                              | 50.80                                                                                                                                                                                                                                                                                   |
| UPS Power Module Weight (lbs.)                                | 46.5                                                                                                                                                                                                                                                                                    |
| UPS Power Module Weight (kg)                                  | 21.09                                                                                                                                                                                                                                                                                   |
| UPS Shipping Dimensions (hwd / in.)                           | 9 x 24 x 20.2                                                                                                                                                                                                                                                                           |
| UPS Shipping Dimensions (hwd / cm)                            | 22.86 x 60.96 x 51.31                                                                                                                                                                                                                                                                   |



|                                                   |                                                                                                                                                                                                                                           |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Shipping Weight (lbs.)                            | 51.3                                                                                                                                                                                                                                      |
| Shipping Weight (kg)                              | 23.3                                                                                                                                                                                                                                      |
| Cooling Method                                    | Fan                                                                                                                                                                                                                                       |
| UPS Housing Material                              | Steel                                                                                                                                                                                                                                     |
| Minimum Required Rack Depth (mm)                  | 508                                                                                                                                                                                                                                       |
| Primary UPS Height (mm)                           | 88                                                                                                                                                                                                                                        |
| Primary UPS Width (mm)                            | 439                                                                                                                                                                                                                                       |
| Primary UPS Depth (mm)                            | 342                                                                                                                                                                                                                                       |
| Shipping Height (mm)                              | 229                                                                                                                                                                                                                                       |
| Shipping Width (mm)                               | 610                                                                                                                                                                                                                                       |
| Shipping Depth (mm)                               | 513                                                                                                                                                                                                                                       |
| <b>ENVIRONMENTAL</b>                              |                                                                                                                                                                                                                                           |
| 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)                     | 237                                                                                                                                                                                                                                       |
| Battery Mode BTU / Hr. (Full Load)                | 751                                                                                                                                                                                                                                       |
| AC Mode Efficiency Rating (100% Load)             | 95%                                                                                                                                                                                                                                       |
| <b>COMMUNICATIONS</b>                             |                                                                                                                                                                                                                                           |
| Communications Interface                          | USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface                                                                                                                                                     |
| Network Management Cards                          | <a href="#">SNMPWEBCARD</a> ; <a href="#">TLNETCARD</a> ; <a href="#">WEBCARDLX</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 <a href="http://www.tripplite.com/poweralert">http://www.tripplite.com/poweralert</a>                                              |
| 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 <a href="http://www.networkupstools.org/stable-hcl.html?manufacturer=Tripp+Lite">http://www.networkupstools.org/stable-hcl.html?manufacturer=Tripp Lite</a> |
| <b>LINE / BATTERY TRANSFER</b>                    |                                                                                                                                                                                                                                           |
| Transfer Time                                     | 4 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                                                                                                                                                                                                                                       |



| <b>SPECIAL FEATURES</b>                                     |                                                                                                                                                                       |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                               |
| Green Energy-Saving Features                                | Greater than 95% efficiency - GREEN UPS; Individually controllable load banks                                                                                         |
| <b>CERTIFICATIONS</b>                                       |                                                                                                                                                                       |
| 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); TAA Compliant |
| <b>WARRANTY</b>                                             |                                                                                                                                                                       |
| Product Warranty Period (Worldwide)                         | 2-year limited warranty                                                                                                                                               |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico)  | \$250,000 <a href="#">Ultimate Lifetime Insurance</a>                                                                                                                 |

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