

# SmartPro 120V 1kVA 800W Line-Interactive Sine Wave UPS, 2U Rack/Tower, Network Card Options, LCD, USB, DB9, 6 Outlets

MODEL NUMBER: **SMART1000RM2U**



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.

## 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 fault conditions
- 6 NEMA 5-15R outlets
- 10-ft. (3.05 m) power cord with 120V NEMA 5-15P input
- 570-joule surge suppression rating

### Reliable Battery Backup

- Supports half load up to 15 min. and full load up to 5.3 min.
- Internal batteries designed for hot-swap field replacement
- 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-147V without using battery power

### EMI/RFI Line Noise Filtering

- Removes electromagnetic and radio frequency interference that can disrupt or damage equipment's performance

## Highlights

- Corrects under- and overvoltages from 83V to 147V
- 6 NEMA 5-15R outlets—4 switchable via network interface
- Network power management and control capability
- Interactive LCD monitoring screen
- 15 min. runtime at half load; 5.3 min. at full load

## Package Includes

- SMART1000RM2U SmartPro 120V 1kVA 800W Line-Interactive Sine Wave UPS
- USB cable
- DB9 cable
- EPO cable
- Mounting hardware
- Owner's manual



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#### 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 UPS management card options TLNETCARD, WEBCARDLX and SNMPWEBCARD

#### Communications Ports

- USB and DB9 ports combine with PowerAlert software, available via free download, to monitor operating conditions, monitor AC power, and enable safe unattended system shutdown and file saves in case of a prolonged power failure
- 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                           | 037332118806                        |
| UPS Type                           | Line-Interactive                    |
| INPUT                              |                                     |
| Input Phase                        | Single-Phase                        |
| Rated input current (Maximum Load) | 9.2A                                |
| 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                            |
| OUTPUT                             |                                     |
| Output Capacity (VA)               | 1000                                |
| Output Capacity (kVA)              | 1                                   |
| Output Capacity (Watts)            | 800                                 |
| Output Capacity (kW)               | 0.8                                 |
| Power Factor                       | 0.8                                 |
| Nominal Voltage Details            | 120v nominal output in battery mode |



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|--|---|
| 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                           | (6) 5-15R   |
| Individually Controllable Load Banks         | Yes   |
| <b>BATTERY</b>                               |   |
| Battery Type                                 | Valve Regulated Lead Acid (VRLA)  |
| Runtime Full Load (min.)                     | 5.3 min. (800W)   |
| Runtime Half Load (min.)                     | 15 min. (400W)  |
| Expandable Runtime                           | No  |
| DC System Voltage (VDC)                      | 24  |
| Battery Recharge Rate (Included Batteries)   | Less than 4 hours from 10% to 90% (typical, full load discharge)  |
| Battery Access                               | Front panel battery access door   |
| Internal UPS Replacement Battery Cartridge   | Current version uses <a href="http://triplite.eaton.com/2U-UPS-Replacement-Battery-Cartridge-for-Select-Tripp-Lite-UPS~RBC24V-LCD">RBC24V-LCD</a> ; Prior versions used <a href="http://triplite.eaton.com/2U-UPS-Replacement-24VDC-Battery-Cartridge-1-set-2-select-Tripp-Lite-SmartPro-UPS~RBC92-2U">RBC92-2U</a> ; Check the label inside the battery door to verify the appropriate replacement battery part number |
| Battery Replacement Description              | Hot-swappable, user replaceable batteries   |
| <b>VOLTAGE REGULATION</b>                    |   |
| 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%  |
| <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   |



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| 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  |
| Rack Height   | 2U   |
| 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 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 href="//tripplite.eaton.com/Heavy-Duty-2-post-Front-Mounting-Ear-Kit~UPSHDEARKIT">UPSHDEARKIT</a> ); 4 post rackmount short-depth ( <a href="//tripplite.eaton.com/4-Post-1U-Universal-Adjustable-Rack-Mount-Shelf-Kit-for-Wall-Mount-Racks~4POSTRAILKITWM">4POSTRAILKITWM</a> ); Tower ( <a href="//tripplite.eaton.com/2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND">2-9USTAND</a> ); Wallmount ( <a 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)                              | 40.64  |
| Minimum Required Rack Depth (inches)                          | 16   |
| Optional Mounting Accessory Notes                             | Optional <a 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 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 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 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)  | 318  |
| Primary UPS Height (mm)                                       | 88   |
| Primary UPS Width (mm)  | 441  |
| Shipping Dimensions (hwd / in.)                               | 8.80 x 18.60 x 22.90   |
| Shipping Dimensions (hwd / cm)                                | 22.35 x 47.24 x 58.17  |
| Shipping Weight (lbs.)  | 45.80  |
| Shipping Weight (kg)  | 20.77  |
| UPS Housing Material  | Steel  |
| UPS Power Module Dimensions (hwd, cm)                         | 8.76 x 44.07 x 31.75   |
| UPS Power Module Dimensions (hwd, in.)                        | 3.45 x 17.35 x 12.5  |
| UPS Power Module Weight (kg)                                  | 16.06  |

|   |   |
|---|---|
| UPS Power Module Weight (lbs.)                              | 35.4  |
| Unit Weight (lbs.)  | 35.4000   |
| Unit Weight (kg)  | 16.06   |
| <b>ENVIRONMENTAL</b>  |   |
| 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)                               | 134   |
| AC Mode Efficiency Rating (100% Load)                       | 95%   |
| Battery Mode Heat Dissipation (BTU/Hr) @ Full Load          | 600   |
| Audible Noise   | 45 dBA maximum, front side 1m   |
| <b>COMMUNICATIONS</b>                                       |   |
| Network Management Cards                                    | <a href="https://tripplite.eaton.com/Web-Management-Accessory-Card-SmartPro-SmartOnline-UPS-Systems~TLNETCARD">TLNETCARD</a> <a href="https://tripplite.eaton.com/Network-Card-Eaton-Tripp-Lite-Series-UPS-Systems~WEBCARDLXE">WEBCARDLXE</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 software at <a href="https://tripplite.eaton.com/products/power-alert">https://tripplite.eaton.com/products/power-alert</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 (NUT) Compatibility                       | NUT compatible. See a full list of NUT compatible Tripp Lite UPS systems at <a href="https://networkupstools.org/stable-hcl.html?manufacturer=Tripp%20Lite">https://networkupstools.org/stable-hcl.html?manufacturer=Tripp%20Lite</a>         |
| Network Management Card Description                         | Network management card optional  |
| Communications Interface                                    | DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface; USB (HID enabled)   |
| <b>LINE / BATTERY TRANSFER</b>                              |   |
| Transfer Time   | 4 milliseconds (AC to battery), 2 milliseconds (Battery to AC)  |
| Low Voltage Transfer to Battery Power (Setpoint)            | 83  |
| High Voltage Transfer to Battery Power (Setpoint)           | 147   |
| <b>FEATURES &amp; SPECIFICATIONS</b>                        |   |
| 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); Hot swappable batteries; Remote management; Surge/noise protection   |
| Grounding Details   | Back panel grounding lug  |

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| APPLICATIONS   |  |
| UPS Applications   | Large Network; High-End Desktop/Small Network; Retail/Point of Sale; Hospitality   |
| STANDARDS & COMPLIANCE                                     |  |
| Product Certifications                                     | CSA (Canada); NOM (Mexico); UL 1778  |
| Product Compliance   | RoHS; FCC Part 15 Class B (USA)  |
| WARRANTY & SUPPORT   |  |
| Product Warranty Period (Worldwide)                        | 2-year warranty, 3 year with registration. Note:&nbsp;<a class="insuranceLink" href="//tripplite.eaton.com/support/product-warranty-registration">Registration is required</a>&nbsp;for 3-year warranty. |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico) | \$250,000&nbsp;<a class="insuranceLink" href="//tripplite.eaton.com/support/insurance-policy">Ultimate Lifetime Insurance</a>&nbsp;  |

1000 Eaton Boulevard  
Cleveland, OH 44122  
United States  
<https://tripplite.eaton.com>

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