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

MODEL NUMBER: **SMART1000RM1U**





## Highlights

- Corrects under- and overvoltages from 83V to 147V
- 6 NEMA 5-15R outlets—2 switchable via network interface
- Network power management and control capability
- Meets strict ENERGY STAR efficiency guidelines
- 14 min. runtime at half load; 4 min. at full load

## Package Includes

- SMART1000RM1U SmartPro 120V 1kVA 800W Line-Interactive Sine Wave UPS
- USB cable
- DB9 cable
- EPO cable
- Mounting hardware
- Owner’s manual

## Description

The SMART1000RM1U SmartPro 120V 1kVA 800W 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 data centers, VoIP systems and network closets, the SMART1000RM1U switches to 1kVA/800W battery mode in milliseconds to keep your connected equipment running long enough to save files and shut down safely with no data loss.

Two of the six 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 (400W) and four minutes at full load (800W). Operating with a high 99% line mode efficiency, the ENERGY STAR-certified SMART1000RM1U saves you money by meeting strict EPA guidelines.

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 450-joule surge suppression rating protects your equipment from harmful power surges. With Tripp Lite’s PowerAlert® software (available via free download), SMART1000RM1U 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
- Audible alarm signals loss of utility power, overload and low battery

- 6 NEMA 5-15R outlets
- 10 ft. power cord with 120V NEMA 5-15P input
- 450-joule surge suppression rating

Reliable Battery Backup

- Supports half load up to 14 min. and full load up to 4 min.
- Internal batteries designed for hot-swap field replacement

Switchable Outlets

- 2 load banks, each with one outlet individually controllable via software interface 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

ENERGY STAR Certification

- 99% line mode efficiency saves money and energy and protects environment by meeting strict EPA efficiency guidelines

LED Indicators

- Front-panel LEDs signal power, voltage correction, load level and battery charge state

Network Management Cards

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

Communications Ports

- USB and DB9 ports combine with PowerAlert software (available via free download from www.tripplite.com/poweralert) 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 mounting in 1U of EIA-standard 19 in. 2- or 4-post rack
- Optional 4POSTRAILKIT1U accessory available for extra support in 4-post installations

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# Specifications

| | |
|---|---|
| **MODEL TEXT** | |
| Key Benefit | 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. |
| **OUTPUT** | |
| Output Volt Amp Capacity (VA) | 1000 |
| Output kVA Capacity (kVA) | 1 |
| Output Watt Capacity (Watts) | 800 |
| Power Factor | 0.8 |
| 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) | -21%, +8% |
| Output Voltage Regulation (Battery Mode) | +/- 5% |
| Output Receptacles | (6) 5-15R |
| Load Management Receptacles | Two switchable single-outlet 5-15R load banks |
| Output AC Waveform (AC Mode) | Sine wave |
| Output AC Waveform (Battery Mode) | Pure Sine wave |
| **INPUT** | |
| Rated input current (Maximum Load) | 9.2A |
| Nominal Input Voltage(s) Supported | 120V AC |
| UPS Input Connection Type | 5-15P |
| Input Circuit Breakers | 15A |
| Recommended Electrical Service | 15A 120V |
| Input Cord Length (ft.) | 10 |
| Input Cord Length (m) | 3.05 |
| Input Phase | Single-Phase |
| **BATTERY** | |
| Full Load Runtime (min.) | 4 min. (800w) |
| Half Load Runtime (min.) | 14 min. (400w) |

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| DC System Voltage (VDC) | 24 |
| Battery Recharge Rate (Included Batteries) | Less than 4 hours from 10% to 90% (typical, full load discharge) |
| Internal UPS Replacement Battery Cartridge | RBC69-1U |
| Battery Access | Front panel battery access door |
| Battery Replacement Description | Hot-swappable, user replaceable batteries |
| Expandable Runtime | No |
| **VOLTAGE REGULATION** | |
| 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** | |
| Switches | 2 Switches control off/on power status and alarm-cancel/self-test operation |
| Alarm Cancel Operation | Power-fail alarm can be silenced using alarm-cancel switch; once silenced, alarm will re-sound to indicate low-battery status |
| Audible Alarm | Audible alarm indicates power-failure, overload and low-battery conditions |
| LED Indicators | 5 LEDs indicate line power, battery power, overload, voltage regulation and battery low/replace status |
| **SURGE / NOISE SUPPRESSION** | |
| UPS AC Suppression Joule Rating | 450 joules |
| EMI / RFI AC Noise Suppression | Yes |
| AC Suppression Response Time | Instantaneous |
| **PHYSICAL** | |
| Included Mounting Accessory Description | Included mounting brackets support 2 and 4 post rackmount installation; Optional 4POSTRAILKIT1U is available for additional support in 4 post rackmount applications |
| Primary Form Factor | Rackmount |
| UPS Power Module Dimensions (hwd, in.) | 1.75 x 17.5 x 16.75 |
| UPS Power Module Dimensions (hwd, cm) | 4.44 x 44.45 x 42.54 |
| Rack Height (U Spaces) | 1 |
| Minimum Required Rack Depth (inches) | 19.8 |
| Minimum Required Rack Depth (cm) | 50.29 |
| UPS Power Module Weight (lbs.) | 32 |

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|---|---|
| UPS Power Module Weight (kg) | 14.51 |
| UPS Shipping Dimensions (hwd / in.) | 6.2 x 23.5 x 22.5 |
| UPS Shipping Dimensions (hwd / cm) | 15.75 x 59.69 x 57.15 |
| Shipping Weight (lbs.) | 36 |
| Shipping Weight (kg) | 16.3 |
| Cooling Method | Fan |
| UPS Housing Material | Steel |
| Minimum Required Rack Depth (mm) | 503 |
| Primary UPS Height (mm) | 44 |
| Primary UPS Width (mm) | 444 |
| Primary UPS Depth (mm) | 425 |
| Shipping Height (mm) | 157 |
| Shipping Width (mm) | 597 |
| Shipping Depth (mm) | 572 |
| **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) | 39 |
| Battery Mode BTU / Hr. (Full Load) | 816 |
| AC Mode Efficiency Rating (100% Load) | 99% |
| **COMMUNICATIONS** | |
| Communications Interface | USB; DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface |
| Network Management Cards | SNMPWEBCARD; TLNETCARD; WEBCARDLX |
| Network Monitoring Port Description | Supports detailed monitoring of UPS and site power conditions |
| PowerAlert Software | For local monitoring via the UPS's built-in communications 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 |
| **LINE / BATTERY TRANSFER** | |
| Transfer Time | 5 milliseconds AC to DC; 1 millisecond DC to AC |

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|---|---|
| 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 |
| Green Energy-Saving Features | Greater than 95% efficiency - GREEN UPS; Individually controllable load banks |
| **CERTIFICATIONS** | |
| UPS Certifications | Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category A (EMI); ENERGY STAR Qualified |
| **WARRANTY** | |
| Product Warranty Period (Worldwide) | 2-year warranty, 3 year with registration. Note: Registration is required for 3-year warranty. |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico) | $250,000 Ultimate Lifetime Insurance |

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