

SmartPro UPS, Lithium Battery Backup - 120V, 1kVA, 800W, Line Interactive, 2U, Sine Wave, LCD, 6 Outlets

MODEL NUMBER: **SMART1000RM2UL**



UPS lithium battery backup protects equipment against damage, downtime and data loss due to blackouts, surges and line noise.

Features

Reliable LiFePO4 Battery Backup Offers Longer Life and Less Weight than Lead Acid Battery This Tripp Lite SmartPro® UPS lithium battery backup features a state-of-the-art lithium iron phosphate (LiFePO4) internal battery with longer life, more cycles and faster recharge. It more than doubles the service life of an equivalent lead acid battery, and offers up to three times more charge/discharge cycles. It recharges to 100% capacity in less than three hours, making the lithium UPS system an ideal backup in case of power outage. The LiFePO4 battery has 60% the weight of an equivalent lead acid battery, which reduces the overall UPS weight.

120-Volt Battery Backup Keeps Equipment Operating Through Short Power Failures The SMART1000RM2UL provides up to 20 minutes (half load) and 8.3 minutes (full load) of battery backup, as well as AC power protection, for critical server, network and telecom equipment. In case of a prolonged blackout, the single-phase lithium UPS system gives you enough time to save important data and perform an orderly system shutdown.

Automatic Voltage Regulation (AVR) Conserves Battery Power With an 800W capacity (1000VA), the line-interactive UPS system with automatic voltage regulation (AVR) maintains regulated 120V nominal output over an input range of 83V–147V without using battery power. Conserving power allows your LiFePO4 battery to last longer and maintain full capacity until needed.

6 Outlets Protect Your Mission-Critical Rack Equipment Plug your equipment into the six NEMA 5-15R outlets. Four outlets are split into two dual-outlet load banks that are switchable via network interface. These four outlets let you 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 six outlets are protected by 570-joule network-grade surge protection to fight off damaging power surges and spikes.

Premium Protection from EMI/RFI Line Noise Helps Your Equipment Perform Better This UPS system filters out disruptive electromagnetic and radio frequency interference that can inflict hardware damage or data loss. This EMI/RFI filtering also helps your connected components perform better and last longer.

High Efficiency Helps the Environment and Your Cash Flow Operating with a high 95% line-mode efficiency, the 1kVA UPS system can save BTU heat output and energy costs.

Advanced Communications Ports Connect to Any Workstation or Server USB and DB9 ports (cables are included) enable data-saving unattended shutdown when used with Tripp Lite's free downloadable PowerAlert® software. Capabilities include detailed monitoring of equipment load levels, self-test data and utility power condition. The Emergency Power Off (EPO) interface offers options for instantaneous power-off of the UPS system and connected equipment in case of fire or other facility emergency.

Highlights

- Lithium UPS provides 1kVA capacity power protection for critical network components
- LiFePO4 battery backup lasts longer and weighs less than equivalent lead acid battery
- 6 NEMA 5-15R outlets—4 of them switchable—deliver power to rack equipment
- 570-joule surge protection shields connected devices from damaging surges and spikes
- High 95% line-mode efficiency helps save BTU heat output and energy costs

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



Optional Network Management Cards Allow Detailed Monitoring of ConditionsThe SMART1000RM2UL is compatible with Tripp Lite network management cards, such as WEBCARDLX, for detailed monitoring of UPS and site power conditions.

Multi-Function LCD and Audible Alarms Keep You InformedThe 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 configuration.

Versatile Installation OptionsHardware is included for mounting the Tripp Lite SmartPro UPS system in 2U of space in an EIA-standard 19-inch 4-post rack. Use the 2POSTRMKITWM (sold separately) for 2-post rack mounting or wall mounting or the UPSHDEARKIT (sold separately) for 2-post front-mount installation. Use the 2-9USTAND (sold separately) for mounting in an upright tower position. A 10-foot power cord with NEMA 5-15P plug connects the SMART1000RM2UL to a compatible AC power source.

Package Includes

- SMART1000RM2UL SmartPro UPS, Lithium Battery Backup
- USB cable
- DB9 cable
- EPO cable
- Rack-mounting hardware
- Owner's manual

Specifications

| OVERVIEW | |
|------------------------------------------|--------------------------------------|
| UPC Code | 037332213099 |
| OUTPUT | |
| Output Volt Amp Capacity (VA) | 1000 |
| Output kVA Capacity (kVA) | 1.0 |
| 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 (Battery Mode) | +/- 5% |
| Output Receptacles | (6) 5-15R |
| Load Management Receptacles | Two switchable two-outlet load banks |
| Output AC Waveform (AC Mode) | Pure Sine wave |
| Output AC Waveform (Battery Mode) | Pure Sine wave |
| Individually Controllable Load Banks | Yes |
| INPUT | |
| Rated input current (Maximum Load) | 9.2A (120V) |
| Nominal Input Voltage(s) Supported | 120V AC |
| UPS Input Connection Type | 5-15P |
| UPS Input Cord Length (ft.) | 10 |



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| UPS Input Cord Length (m) | 3.1 |
| Recommended Electrical Service | 15A 120V |
| Input Phase | Single-Phase |
| BATTERY | |
| Full Load Runtime (min.) | 8.3 min. (800w) |
| Half Load Runtime (min.) | 20 min. (400w) |
| DC System Voltage (VDC) | 24 |
| Battery Recharge Rate (Included Batteries) | 2.7 hours from 10% to 90% (typical) |
| 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 127 and 147 are reduced by 12% |
| Undervoltage Correction | Input voltages between 83 and 107 are boosted by 12% |
| 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 | |
| UPS AC Suppression Joule Rating | 570 |
| UPS AC Suppression Response Time | Instantaneous |
| EMI / RFI AC Noise Suppression | Yes |
| PHYSICAL | |
| Installation Form Factors Supported with Included Accessories | 4 post 19 inch rackmount |
| 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 Optional Accessories | 2 post rackmount (2POSTRMKITWM); 2-4 post front rail rackmount (UPSHDEARKIT); 4 post rackmount short-depth (4POSTRAILKITWM); Tower (2-9USTAND); Wallmount (2POSTRMKITWM) |



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| Optional Mounting Accessory Notes | Optional 2-9USTAND enables upright tower UPS placement; 2POSTRMKITWM enables wall-mount and 2-post rackmount installation; 4POSTRAILKITWM enables installation in 4-post short-depth racks from 14.5 to 23.5 inches (368 to 597mm); UPSHDEARKIT enables installation in 2 or 4-post racks using front vertical rails only, without rear support |
| Primary Form Factor | Rackmount |
| UPS Power Module Dimensions (hwd, in.) | 3.5 x 17.35 x 12.5 |
| Rack Height | 2U |
| Minimum Required Rack Depth (inches) | 15.5 |
| Minimum Required Rack Depth (cm) | 39.37 |
| UPS Power Module Weight (lbs.) | 16.3 |
| UPS Power Module Weight (kg) | 7.39 |
| Shipping Dimensions (hwd / in.) | 8.80 x 23.75 x 20.25 |
| Shipping Weight (kg) | 10.34 |
| Cooling Method | Fan |
| UPS Housing Material | Steel |
| Primary UPS Height (mm) | 89 |
| Primary UPS Width (mm) | 441 |
| Primary UPS Depth (mm) | 318 |
| 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 | Up to 95%, non-condensing |
| AC Mode BTU / Hr. (Full Load) | 141 |
| AC Mode Efficiency Rating (100% Load) | 95% |
| Audible Noise | 45.5 dBA Max @ 1m front side |
| COMMUNICATIONS | |
| Communications Interface | USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface |
| Network Management Cards | SNMPWEBCARD; TLNETCARD; WEBCARDLX; 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 |



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| 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 |
| LINE / BATTERY TRANSFER | |
| Transfer Time | 4 milliseconds (AC to battery mode), 2 milliseconds (Battery to AC mode) |
| 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 |
| Green Energy-Saving Features | Individually controllable load banks |
| CERTIFICATIONS | |
| UPS Certifications | Meets FCC Part 15 Category B (EMI); ROHS (Restriction of Hazardous Substances); Tested to CSA (Canada); Tested to NOM (Mexico); Tested to UL1778 (USA) |
| UPS Certification Details | UL 1778: 2014 R8.15 (5TH EDITION); CAN/CSA-C22.2 No. 107.3-14 |
| WARRANTY | |
| Product Warranty Period (Worldwide) | 5-year limited warranty |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico) | \$250,000 & Ultimate Lifetime Insurance |

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