

## 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 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

### 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

### Package Includes

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



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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 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.

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

**Multi-Function LCD and Audible Alarms Keep You Informed** The 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 Options** Hardware is included for mounting the 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-ft. (3.05 m) power cord with NEMA 5-15P plug connects the SMART1000RM2UL to a compatible AC power source.

## Specifications

OVERVIEW	
UPC Code	037332213099
UPS Type	Line-Interactive
INPUT	
Input Phase	Single-Phase
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
UPS Input Cord Length (m)	3.1
Recommended Electrical Service	15A 120V
Maximum Input Amps	9
OUTPUT	
Output Capacity (VA)	1000
Output Capacity (kVA)	1
Output Capacity (Watts)	800
Output Capacity (kW)	0.8
Power Factor	0.8



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Nominal Voltage Details	120v nominal output in battery mode
Frequency Compatibility	60 Hz
Output Voltage Regulation (Battery Mode)	+/- 5%
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
Nominal Output Voltage(s) Supported	110V; 115V; 120V
Output Receptacles	(6) 5-15R
Individually Controllable Load Banks	Yes
<b>BATTERY</b>	
Battery Type	Lithium-ion (LiFePO4)
Runtime Full Load (min.)	8.3 min. (800W)
Runtime Half Load (min.)	20 min. (400W)
Expandable Runtime	No
DC System Voltage (VDC)	24
Battery Recharge Rate (Included Batteries)	2.7 hours from 10% to 90% (typical)
<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 127 and 147 are reduced by 12%
Undervoltage Correction	Input voltages between 83 and 107 are boosted by 12%
<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>	
EMI / RFI AC Noise Suppression	Yes
AC Suppression Joule Rating	570
AC Suppression Response Time	Instantaneous



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PHYSICAL	
Primary Form Factor	Rackmount
Rack Height	2U
Cooling Method	Fan
Installation Form Factors Supported with Included Accessories	4 post 19 inch rackmount
Installation Form Factors Supported with Optional Accessories	2 post rackmount ( <a href="https://tripplite.eaton.com/2-Post-Rack-Mount-Wall-Mount-Adapter-Kit-select-Rack-Mount-UPS-Systems~2POSTRMKITWM">2 post rackmount</a> ); 2-4 post front rail rackmount ( <a href="https://tripplite.eaton.com/Heavy-Duty-2-post-Front-Mounting-Ear-Kit~UPSHDEARKIT">2-4 post front rail rackmount</a> ); 4 post rackmount short-depth ( <a href="https://tripplite.eaton.com/4-Post-1U-Universal-Adjustable-Rack-Mount-Shelf-Kit-for-Wall-Mount-Racks~4POSTRAILKITWM">4 post rackmount short-depth</a> ); Tower ( <a href="https://tripplite.eaton.com/2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND">Tower</a> ); Wallmount ( <a href="https://tripplite.eaton.com/2-Post-Rack-Mount-Wall-Mount-Adapter-Kit-select-Rack-Mount-UPS-Systems~2POSTRMKITWM">Wallmount</a> )
Minimum Required Rack Depth (cm)	40.64
Minimum Required Rack Depth (inches)	16
Optional Mounting Accessory Notes	Optional <a href="https://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="https://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="https://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="https://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)	89
Primary UPS Width (mm)	441
Shipping Dimensions (hwd / in.)	8.70 x 18.50 x 23.30
Shipping Weight (kg)	17.92
UPS Housing Material	Steel
UPS Power Module Dimensions (hwd, in.)	3.5 x 17.35 x 12.5
UPS Power Module Weight (kg)	7.39
UPS Power Module Weight (lbs.)	16.3
Unit Weight (lbs.)	16.300
Unit Weight (kg)	7.39
Mounting Details	Included 4POSTRAILKIT mounting bracket enables installation in 4 post racks from 20.5 to 36 inches (521 to 914mm)
ENVIRONMENTAL	
Operating Temperature Range	32° to 104°F (0° to 40°C)
Storage Temperature Range	5° to 122°F (-15° to 50°C)
Relative Humidity	Up to 95% non-condensing
AC Mode BTU / Hr. (Full Load)	141



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AC Mode Efficiency Rating (100% Load)	95%
Audible Noise	45.5 dBA maximum, front side 1m
<b>COMMUNICATIONS</b>	
Network Management Cards	&nbsp;<a class="productLink" href="//tripplite.eaton.com/Network-Card-Eaton-Tripp-Lite-Series-UPS-Systems~WEBCARDLXE">WEBCARDLXE</a>&nbsp;; 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
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 mode), 2 milliseconds (Battery to AC mode)
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); Remote management; Surge/noise protection
Green Energy-Saving Features	Individually controllable load banks
Grounding Details	Back panel grounding lug
<b>APPLICATIONS</b>	
UPS Applications	Large Network; High-End Desktop/Small Network; Retail/Point of Sale; Hospitality
<b>STANDARDS &amp; COMPLIANCE</b>	
Product Certifications	CSA (Canada); UL 1778
Product Compliance	RoHS; FCC Part 15 Class B (USA)
<b>WARRANTY &amp; SUPPORT</b>	
Product Warranty Period (Worldwide)	5-year limited 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;;



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

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