

120V 1000VA 900W Double-Conversion UPS - 6 Outlets, Extended Run, WEBCARDLX, LCD, USB, DB9, 2U Rack/Tower

MODEL NUMBER: SU1000RTXLCD2UN



On-line double-conversion UPS provides pure sine wave AC output to server and network equipment in data centers and computer rooms.

Features

Double-Conversion UPS Protects Equipment against Damage, Downtime and Data Loss This 100/110/120/127V 50/60 Hz UPS system with IGBT technology maintains perfect output by converting AC input to DC, then reconverts UPS output to fully regulated sine wave AC with +/-2% voltage regulation in online and battery modes. Featuring a 900W capacity, high 0.9 power factor, 570 joules of surge suppression, true on-line operation with pure sine wave output and zero transfer time to battery mode in on-line double-conversion mode, the SmartOnline® SU1000RTXLCD2UN double-conversion UPS provides the highest level of AC power protection and battery backup for critical network closet, computer room and data center equipment.

Individually Controllable Load Banks Let You Access and Control Outlets Remotely Two NEMA 5-15R outlets are split into two switchable single-outlet load banks, allowing you to reboot select components or shed loads remotely. In addition to those two outlets, this UPS provides four more 5-15R outlets for powering critical components.

Reliable, Expandable Battery Backup Keeps You Operational Through Power Outages The field-replaceable, hot-swappable internal battery provides 14 minutes of support at half load (450W) and 4.8 minutes at full load (900W), keeping protected equipment operational through power failures. For mission-critical applications demanding scalable extended runtime, the UPS supports external battery packs, such as Tripp Lite's BP24V15RT2U (sold separately). The intelligent battery management system with temperature-compensated charging extends battery life.

ENERGY STAR-Certified Economy Mode Helps You Save Money and Protect the Environment By meeting strict EPA efficiency guidelines, this ENERGY STAR-certified UPS system helps you save money and energy. A power-saving Economy mode setting option offers enhanced efficiency and reduced BTU output when utility power is already high quality.

Automatically Turns Back On After Power Is Restored Battery-independent restart ensures automatic UPS power-up without user interaction after lengthy power outages, even when batteries are expired and require replacement.

Highlights

- Offers network-grade protection against power failures and voltage fluctuations
- Zero transfer time between on-line and battery modes for uninterrupted operation
- Optional external battery packs provide additional runtime for applications requiring it
- Included WEBCARDLX network interface allows you 24/7 remote access from anywhere
- ENERGY STAR-certified to save electricity, lower costs, and protect the environment

Applications

- Deliver perfectly regulated sine wave output to mission-critical equipment
- Protect connected components from dangerous surges, spikes and line noise
- Keep equipment operational through power failures
- Allow time to save data and safely shut down components in case of a prolonged blackout

Package Includes

- SU1000RTXLCD2UN SmartOnline Double-Conversion UPS
- WEBCARDLX network interface card
- USB cable
- RS-232 cable
- EPO cable
- 4-post rack-mounting hardware
- Owner's manual



Intuitive Front-Panel Interface for Convenient UPS Operation and MonitoringThe front-panel LCD features nine selectable screens of UPS data (including load, voltage and battery data) and 16 screens of configuration and setup options. LEDs indicate line power availability, AC to DC conversion, battery mode operation, inverter mode, ECO mode operation, bypass mode operation and AC output status.

Advanced Communications Ports Allow for Automatic Saves and ShutdownsRS-232 and HID-compliant USB ports connect to a computer running Tripp Lite's free downloadable PowerAlert® software to enable safe unattended file saves and system shutdown in case of a prolonged power failure. An EPO port connects the UPS to a contact closure switch to enable emergency inverter shutdown. Cables are included.

WEBCARDLX Network Interface Offers 24/7 Remote Access for Monitoring and ControlThe SU1000RTXLCD2UN includes the Java-free HTML5-based WEBCARDLX that enables full remote access for site power and UPS status monitoring, configuration, control and email notifications via secure web browser, SNMP, telnet or SSH. It supports 10/100 Mbps auto-sensing for optimum communication with an Ethernet network. Automated alerts help prevent accidental overloads, power loss and downtime. WEBCARDLX allows you to use the Auto Probe feature, which can prevent costly service calls by automatically rebooting non-responsive network devices.

Versatile Installation OptionsHardware is included for mounting the UPS system in 2U of space in an EIA-standard 19-inch 4-post rack. Use the optional 2POSTRMKITWM (sold separately) for 2-post rack mounting or the optional 2-9USTAND (sold separately) for mounting in an upright tower position. The 10-ft. (3.05 m) power cord with NEMA 5-15P plug connects to any compatible AC outlet.

Specifications

| OVERVIEW | |
|------------------------------------|---|
| UPC Code | 037332253545 |
| UPS Type | On-Line |
| INPUT | |
| Rated input current (Maximum Load) | 8.6A |
| Nominal Input Voltage(s) Supported | 100V AC; 110V AC; 115V AC; 120V AC; 127V AC |
| Nominal Input Voltage Description | 120V factory default |
| 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 |
| Input Phase | Single-Phase |
| OUTPUT | |
| Output Volt Amp Capacity (VA) | 1000 |
| Output kVA Capacity (kVA) | 1 |
| Output Watt Capacity (Watts) | 900 |



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| Output kW Capacity (kW) | 0.9 |
| Output Capacity Details | <p>ON LINE MODE: Maximum output capacity is reduced to 608 watts at 100V nominal; FREQUENCY / REGULATION CONVERSION MODE: Maximum output ratings are reduced in frequency regulation / conversion mode (127/120/115/110V 630 watts / 100V 567 watts).</p> <p>OVERLOAD CAPACITY: Supports inverter operation up to 105% load continuously, 125% load for 3 minutes; 150% load for 30 seconds and >150% load for 0.5 seconds before switching to BYPASS (when bypass input voltage and frequency are WITHIN bypass limits) or SHUTDOWN (when bypass input voltage or frequency are OUTSIDE bypass limits)</p> |
| Power Factor | 0.9 |
| Crest Factor | 3:1 |
| Nominal Voltage Details | 120V factory-default nominal voltage |
| Frequency Compatibility | 50 / 60 Hz; Supports 50 to 60 Hz and 60 to 50 Hz conversion |
| Frequency Compatibility Details | <p>ON LINE MODE: Output frequency is automatically configured to match nominal input frequency on startup; Output matches input frequency when +/-5Hz of nominal; Output is regulated to +/-0.05Hz when input frequency exceeds +/-5Hz of nominal. UPS switches to battery mode when input frequency is below 40Hz or above 70Hz.</p> <p>FREQUENCY REGULATION / CONVERSION MODE: Output is regulated to +/-0.05Hz of selected output frequency input is 40 to 70Hz; UPS switches to battery mode when input frequency is below 40Hz or above 70Hz. BATTERY MODE: Output is regulated to +/-0.05Hz.</p> |
| Output Voltage Regulation (Line Mode) | +/- 2% |
| Output Voltage Regulation (Economy Line Mode) | +/- 10% |
| Output Voltage Regulation (Battery Mode) | +/- 3% |
| Load Management Receptacles | Two switchable single-outlet 5-15R load banks |
| Output AC Waveform (AC Mode) | Pure Sine wave |
| Output AC Waveform (Battery Mode) | Pure Sine wave |
| Nominal Output Voltage(s) Supported | 100V; 110V; 115V; 120V; 127V |
| Output Receptacles | (6) 5-15R |
| Individually Controllable Load Banks | Yes |
| BATTERY | |
| Battery Type | Valve Regulated Lead Acid (VRLA) |
| Full Load Runtime (min.) | 4.8 min. (900w) |
| Half Load Runtime (min.) | 14 min. (450w) |
| Expandable Battery Runtime | Extended runtime supported via optional external battery packs |
| Expandable Runtime | Yes |
| Expandable Runtime Description | Some external battery configurations require the use of Tripp Lite's External Battery Configuration Software, see manual for details |



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| External Battery Pack Compatibility | BP24V15RT2U (limit 1); BP24V28-2U (limit 1); BP24V70-3U (multi-pack compatible); BP24V36-2US (multi-pack compatible) |
| DC System Voltage (VDC) | 24 |
| Battery Recharge Rate (Included Batteries) | Less than 3 hours recharge to 90% (typical, full load discharge) |
| Battery Access | Front panel battery access |
| Internal UPS Replacement Battery Cartridge | RBC24V-LCD |
| Battery Replacement Description | Hot-swappable, user replaceable batteries |
| VOLTAGE REGULATION | |
| Voltage Regulation Description | Online, double-conversion power conditioning maintains 2% output voltage regulation during brownouts and overvoltages |
| Overvoltage Correction | Corrects overvoltages to 150V (0-100% load) |
| Undervoltage Correction | Corrects undervoltages to 100V at full load (90V at 100V nominal) |
| Severe Undervoltage Correction | Corrects brownouts to 70V (70% load) & 55V (33% load) |
| 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, frequency, operating mode, alarm function and a variety of additional options |
| Switches | 2 switches control off/on power status and alarm-cancel operation; 2 additional scroll-down and scroll-up / select options enable LCD status viewing and configuration options |
| 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 |
| LED Indicators | 7 front panel LEDs indicate line power availability, AC to DC conversion, battery mode operation, inverter mode, eco mode operation, bypass mode operation and AC output status |
| SURGE / NOISE SUPPRESSION | |
| UPS AC Suppression Joule Rating | 570 |
| UPS AC Suppression Response Time | Instantaneous |
| UPS Dataline Suppression | 1 line TEL/DSL (1 in / 1 out); 10/100Base T Ethernet |
| EMI / RFI AC Noise Suppression | Yes |
| PHYSICAL | |
| Primary Form Factor | Rackmount |
| Cooling Method | Fan |



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| 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 (2POSTRMKITWM); 2-4 post front rail rackmount (UPSHDEARKIT); 4 post rackmount short-depth (4POSTRAILKITWM); Tower (2-9USTAND); Wallmount (2POSTRMKITWM); |
| Minimum Required Rack Depth (cm) | 39.37 |
| Minimum Required Rack Depth (inches) | 15.5 |
| 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 UPS Depth (mm) | 318 |
| Primary UPS Height (mm) | 89 |
| Primary UPS Width (mm) | 445 |
| Rack Height | 2U |
| Shipping Dimensions (hwd / in.) | 9.20 x 23.30 x 19.30 |
| Shipping Weight (kg) | 18.14 |
| UPS Housing Material | Steel |
| UPS Power Module Dimensions (hwd, in.) | 3.5 x 17.5 x 12.5 |
| UPS Power Module Weight (kg) | 13.15 |
| UPS Power Module Weight (lbs.) | 29 |
| 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) | 341 |
| AC Economy Mode BTU / Hr. (Full Load) | 231 |
| Battery Mode BTU / Hr. (Full Load) | 585 |
| AC Economy Mode Efficiency Rating (100% Load) | 93% |



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| Operating Elevation (ft.) | 0-3000m / 0-10,000 ft. |
| Audible Noise | 50 dBA at 1m front side |
| Operating Elevation (m) | 0 - 3000 m |
| COMMUNICATIONS | |
| Network Management Cards | WEBCARDLX |
| Network Monitoring Port Description | Includes pre-installed WEBCARDLX Network Management Card; Supports detailed monitoring of UPS and site power conditions; DB9 port supports RS232 and contact closure communications |
| PowerAlert Software | For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at https://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 |
| Network Management Card Description | Network management card included |
| Communications Interface | Contact closure; DB9 Serial; EPO (emergency power off); Pre-installed network card; Slot for SNMP/Web interface; USB (HID enabled) |
| LINE / BATTERY TRANSFER | |
| Transfer Time | Zero (0 milliseconds) in double-conversion mode; 4 milliseconds economy mode |
| Low Voltage Transfer to Battery Power (Setpoint) | 100V at full load (90V full load at 100V nominal setting); 70V at 70% load; 55V at 33% load |
| High Voltage Transfer to Battery Power (Setpoint) | 150 |
| FEATURES & SPECIFICATIONS | |
| Cold Start (Startup in Battery Mode During a Power Failure) | Cold-start operation supported |
| High Availability UPS Features | Auto Probe Monitoring and Reboot (included); Automatic inverter bypass; Expandable battery backup; Hot swappable batteries; On-Line/Double-Conversion; Remote management; Sine wave output; Surge/noise protection; Zero transfer time |
| Green Energy-Saving Features | High efficiency economy mode operation; Individually controllable load banks; Schedulable daily hours of economy mode operation |
| STANDARDS & COMPLIANCE | |
| UPS Certifications | ENERGY STAR Qualified; Meets FCC Part 15 Category B (EMI); ROHS (Restriction of Hazardous Substances); Tested to CSA (Canada); Tested to NOM (Mexico); Tested to UL1778 (USA) |
| WARRANTY | |
| Product Warranty Period (Worldwide) | 2-year limited warranty |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico) | \$250,000 Ultimate Lifetime Insurance |



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Tripp Lite uses primary and third-party agencies to test its products for compliance with standards. See a list of Tripp Lite's testing agencies:

<https://www.tripplite.com/products/product-certification-agencies>