

SmartOnline 120V 2.2kVA 1.8kW Double-Conversion UPS, 2U Rack/Tower, Extended Run, Network Interface

MODEL NUMBER: SU2200RTXLCDN



Protects connected mission-critical equipment against damage, downtime and data loss due to blackouts, brownouts, power surges and line noise. Pre-installed WEBCARDLX network interface permits remote UPS management.

Features

Protects Mission-Critical Rack-Mounted Equipment Provides fully regulated sine wave AC output for servers, network storage devices and telecom hardware +/-2% voltage regulation in online and battery modes Selectable 100/110/120/127V output voltage 6 NEMA 5-15/20R and 1 L5-20R outlets 10-ft. (3.05 m) power cord with NEMA 5-20P input 570-joule surge suppression rating

Reliable Battery Backup with Expandable Runtime Supports half load for 12 min. and full load for 4 min. Zero transfer time suitable for advanced network applications Expandable runtime with optional external battery packs, such as BP48V24-2U Battery independent restart ensures automatic UPS power-up after lengthy power outages, even with expired batteries

Pre-Installed WEBCARDLX Network Interface Allows full remote access for power monitoring, configuration, control and email notifications via secure web browser, SNMP, telnet or SSH Optional EnviroSense2 sensors (sold separately) enable site monitoring of temperature, humidity and contact-closure status

Switchable Numbered Load Banks Outlets are divided into 2 numbered load banks, each of which may be individually powered on and off remotely to reset or reboot connected equipment

Interactive LCD Screen Reports detailed status information, including load, voltage and battery levels Offers advanced configuration and setup options, including output voltage and operating mode

EMI/RFI Line Noise Filtering Removes electromagnetic and radio frequency interference that can disrupt or damage equipment's performance

Audible Alarm Indicates startup/shutdown, power failure, low battery, overload and fault conditions

Communications Ports USB and DB9 ports enable data-saving unattended shutdown when used with PowerAlert software (available via free download at tripplite.eaton.com/products/power-alert) EPO port supports emergency shutdown in large facilities

Highlights

- Zero transfer time suitable for advanced network applications
- 2% output voltage regulation in online and battery modes
- Expandable runtime with optional external battery packs
- Pre-installed WEBCARDLX network interface
- 12 min. runtime at half load; 4 min. at full load
- To enable the Auto Probe feature, this product requires LX firmware update 15.5.2 or later to be installed

Package Includes

- SU2200RTXLCDN SmartOnline 120V 2.2kVA 1.8kW On-Line Double-Conversion UPS
- Pre-installed WEBCARDLX network interface
- USB cable
- DB9 cable
- EPO cable
- Mounting hardware
- Owner's manual

Versatile Installation Options Hardware included for 4-post mounting in 2U of EIA-standard 19 in. rackMounts on wall or 2-post rack with optional 2POSTRMKITWMMounts in upright tower position with optional 2-9USTAND

Specifications

| OVERVIEW | |
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| UPC Code | 037332182982 |
| UPS Type | On-Line |
| INPUT | |
| Input Phase | Single-Phase |
| Rated input current (Maximum Load) | 16A |
| 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 | 5-20P |
| Input Circuit Breakers | 30A |
| UPS Input Cord Length (ft.) | 10 |
| UPS Input Cord Length (m) | 3.1 |
| Recommended Electrical Service | 20A 120V |
| Total Harmonic Distortion | 0.03 |
| OUTPUT | |
| Output Capacity (VA) | 2200 |
| Output Capacity (kVA) | 2.2 |
| Output Capacity (Watts) | 1800 |
| Output Capacity (kW) | 1.8 |
| Output Capacity Details | 17.3A (100V), 18.3A (110V), 17.2A (115V), 17A (120V), 17.6A (127V). ON LINE MODE: Maximum output capacity is reduced to 1620 watts at 115V nominal and 1440 watts at 100V nominal; FREQUENCY REGULATION / CONVERSION MODE: Maximum output ratings are reduced in frequency regulation / conversion mode (127/120V 1260 watts / 115V 1134 watts / 110V 1071 watts / 100V 1008 watts) 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) |
| Power Factor | 0.82 |
| Crest Factor | 3:1 |
| Nominal Voltage Details | 120V sinusoidal in line mode and 120V sinusoidal in battery mode |
| Frequency Compatibility | 50 / 60 Hz; Supports 50 to 60 Hz and 60 to 50 Hz conversion |

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| Frequency Compatibility Details | 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. 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. |
| Output Voltage Regulation (Line Mode) | +/- 2% |
| Output Voltage Regulation (Economy Line Mode) | +/- 10% |
| Output Voltage Regulation (Battery Mode) | +/- 3% |
| Load Management Receptacles | Two switchable three-outlet 5-15/20R 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) 5-15/20R; (1) L5-20R |
| Individually Controllable Load Banks | Yes |
| BATTERY | |
| Battery Type | Valve Regulated Lead Acid (VRLA) |
| Runtime Full Load (min.) | 4.3 min. (1800W) |
| Runtime Half Load (min.) | 12 min. (900W) |
| 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 |
| External Battery Pack Compatibility | BP48V24-2U (limit 1); BP48V60RT-3U (multi-pack compatible); BP48V27-2US (multi-pack compatible) |
| DC System Voltage (VDC) | 48 |
| 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 | RBC94-2U |
| 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. Input voltage range of 100 to 150 |
| Overvoltage Correction | Corrects overvoltages to 150V (0-100% load) |

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| 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 |
| 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 (2POSTRMKITWM); 2-4 post front rail rackmount (UPSHDEARKIT); 4 post rackmount short-depth (4POSTRAILKITWM); Tower (2-9USTAND); Wallmount (2POSTRMKITWM); |
| Minimum Required Rack Depth (cm) | 55.88 |
| Minimum Required Rack Depth (inches) | 22 |
| Minimum Required Rack Depth with External Battery Pack (cm) | 66 |
| Minimum Required Rack Depth with External Battery Pack (in.) | 26 |

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| Minimum Required Rack Depth without External Battery Pack (cm) | 61 |
| Minimum Required Rack Depth without External Battery Pack (in.) | 24 |
| 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) | 483 |
| Primary UPS Height (mm) | 89 |
| Primary UPS Width (mm) | 445 |
| Shipping Dimensions (hwd / in.) | 8.90 x 19.90 x 23.50 |
| Shipping Dimensions (hwd / cm) | 22.61 x 50.55 x 59.69 |
| Shipping Weight (lbs.) | 63.00 |
| Shipping Weight (kg) | 28.58 |
| UPS Housing Material | Steel |
| UPS Power Module Dimensions (hwd, cm) | 8.89 x 44.45 x 48.26 |
| UPS Power Module Dimensions (hwd, in.) | 3.5 x 17.5 x 19 |
| UPS Power Module Weight (kg) | 22.00 |
| UPS Power Module Weight (lbs.) | 48.5 |
| Unit Weight (lbs.) | 48.5000 |
| Unit Weight (kg) | 22.00 |
| 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 | 5 to 95%, non-condensing |
| AC Mode BTU / Hr. (Full Load) | 684 |
| AC Economy Mode BTU / Hr. (Full Load) | 392 |
| Battery Mode BTU / Hr. (Full Load) | 1085 |
| AC Economy Mode Efficiency Rating (100% Load) | 94% |
| Operating Elevation (ft.) | 3,000 m above the sea level |
| Audible Noise | 57 dBA at 1m front side |
| Operating Elevation (m) | Up to 3000m |

| COMMUNICATIONS | |
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| Network Management Cards | WEBCARDLX </td> |
| Network Monitoring Port Description | Includes pre-installed WEBCARDLX Network Management Card interface; 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 software at https://tripplite.eaton.com/products/power-alert |
| 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; Hot swappable batteries; Remote management; 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 |
| APPLICATIONS | |
| UPS Applications | Mission Critical Applications |
| STANDARDS & COMPLIANCE | |
| Product Certifications | CSA (Canada); UL 1778 |
| Product Compliance | RoHS; FCC Part 15 Class A (USA) |
| WARRANTY & SUPPORT | |
| Product Warranty Period (Worldwide) | 2-year limited warranty |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico) | \$250,000 Ultimate Lifetime Insurance </td> |



1000 Eaton Boulevard
Cleveland, OH 44122
United States



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