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

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.

### Description

The SU2200RTXLCDN SmartOnline® 120V 2.2kVA 1.8kW On-Line Double-Conversion UPS provides battery backup and AC power protection against blackouts, brownouts, power surges and line noise that can damage electronics or destroy data. It converts AC input to DC power, and then converts DC to fully regulated sine wave AC output with +/-2% voltage regulation in online and battery modes.

The ENERGY STAR-certified SU2200RTXLCDN saves you money by meeting strict EPA guidelines. Featuring six NEMA 5-15/20R outlets in two switchable numbered load backs, as well as one L5-20R outlet and a 5-20P input, the SU2200RTXLCDN has an internal battery that provides 12 minutes of support at half load and four minutes at full load. Adding external battery packs, such as BP48V24-2U (sold separately), provides extended runtime.

The Java-free HTML5-based WEBCARDLX interface 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. Optional EnviroSense2 modules (sold separately) provide a variety of environmental monitoring capabilities. Protocols supported include HTTP, HTTPS, SMTP, SNMPv1, SNMPv2, SNMPv3, telnet, SSH, FTP, DHCP and NTP.

EMI/RFI noise filtering improves your equipment's performance and prevents damage. A 570-joule surge suppression rating protects your equipment from harmful power surges.

### 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

### 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

## 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. 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 Tripp Lite's BP48V24-2U
- Battery independent restart ensures automatic UPS power-up after lengthy power outages, even with expired batteries.

### ENERGY STAR Certification

- Saves money and energy and protects environment by meeting strict EPA efficiency guidelines

### 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 Tripp Lite's PowerAlert software (available via free download at [www.tripplite.com/poweralert](http://www.tripplite.com/poweralert))



- EPO port supports emergency shutdown in large facilities

#### Versatile Installation Options

- Hardware included for 4-post mounting in 2U of EIA-standard 19 in. rack
- Mounts on wall or 2-post rack with optional 2POSTRMKITWM
- Mounts in upright tower position with optional 2-9USTAND

## Specifications

| OVERVIEW                                      |   |
|---|---|
| UPC Code                                      | 037332182982  |
| OUTPUT  |   |
| Output Volt Amp Capacity (VA)                 | 2200  |
| Output kVA Capacity (kVA)                     | 2.2   |
| Output Watt Capacity (Watts)                  | 1800  |
| Output kW Capacity (kW)                       | 1.8   |
| Output Capacity Details                       | <p>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)</p> <p>OVERLOAD CAPACITY: Supports inverter operation up to 105% load continuously, 125% load for 3 minutes; 150% load for 30 seconds and &gt;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                                  | 0.82  |
| Crest Factor                                  | 3:1   |
| Nominal Output Voltage(s) Supported           | 100V; 110V; 115V; 120V; 127V  |
| 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%  |
| Output Receptacles                            | (6) 5-15/20R; (1) L5-20R  |
| 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   |
| <b>INPUT</b>                               |  |
| 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   |
| Input Phase                                | Single-Phase   |
| <b>BATTERY</b>                             |  |
| Full Load Runtime (min.)                   | 4 min. (1800w)   |
| Half Load Runtime (min.)                   | 12 min. (900w)   |
| Expandable Battery Runtime                 | Extended runtime supported via optional external battery packs   |
| External Battery Pack Compatibility        | &nbsp;<a class="productLink" href="//www.tripplite.com/External-48V-2U-Rack-Tower-Battery-Pack-Enclosure-DC-Cabling-select-UPS-Systems-BP48V24-2U~BP48V24-2U">BP48V24-2U</a>&nbsp;(limit 1);&nbsp;<a class="productLink" href="//www.tripplite.com/External-48V-3U-Rack-Tower-Battery-Pack-Enclosure-DC-Cabling-select-UPS-Systems-BP48V60RT-3U~BP48V60RT-3U">BP48V60RT-3U</a>&nbsp;(multi-pack compatible);&nbsp;<a class="productLink" href="//www.tripplite.com/External-48V-2U-Rack-Tower-Battery-Pack-for-UPS-Systems-BP48V27-2US~BP48V27-2US">BP48V27-2US</a>&nbsp;(multi-pack compatible) |
| Expandable Runtime Description             | Some external battery configurations require the use of Tripp Lite's External Battery Configuration Software, see manual for details   |
| DC System Voltage (VDC)                    | 48   |
| Battery Recharge Rate (Included Batteries) | Less than 3 hours recharge to 90% (typical, full load discharge)   |
| Internal UPS Replacement Battery Cartridge | &nbsp;<a class="productLink" href="//www.tripplite.com/2U-UPS-Replacement-48VDC-Battery-Cartridge-1-set-4-select-Tripp-Lite-SmartPro-UPS~RBC94-2U">RBC94-2U</a>&nbsp;  |
| Battery Access                             | Front panel battery access   |
| Battery Replacement Description            | Hot-swappable, user replaceable batteries  |
| Expandable Runtime                         | Yes  |
| <b>VOLTAGE REGULATION</b>                  |  |
| 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)  |



| <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, 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   |
| <b>SURGE / NOISE SUPPRESSION</b>                                |   |
| 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   |
| <b>PHYSICAL</b>   |   |
| Included Mounting Accessory Description                         | Includes 4 post rackmount installation accessories  |
| Installation Form Factors Supported with Optional Accessories   | 2 post rackmount (2POSTRMKITWM); Tower (2-9USTAND); Wallmount (2POSTRMKITWM)  |
| Primary Form Factor   | Rackmount   |
| UPS Power Module Dimensions (hwd, in.)                          | 3.5 x 17.5 x 19   |
| UPS Power Module Dimensions (hwd, cm)                           | 8.89 x 44.45 x 48.26  |
| Rack Height (U Spaces)  | 2   |
| Minimum Required Rack Depth without External Battery Pack (cm)  | 61  |
| Minimum Required Rack Depth with External Battery Pack (cm)     | 66  |
| Minimum Required Rack Depth without External Battery Pack (in.) | 24  |
| Minimum Required Rack Depth with External Battery Pack (in.)    | 26  |
| UPS Power Module Weight (lbs.)                                  | 48.5  |
| UPS Power Module Weight (kg)                                    | 22.00   |
| 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.)  | 63.30   |



|   |   |
|---|---|
| Shipping Weight (kg)  | 28.71   |
| Cooling Method  | Fan   |
| UPS Housing Material  | Steel   |
| Primary UPS Height (mm)                                     | 89  |
| Primary UPS Width (mm)                                      | 445   |
| Primary UPS Depth (mm)                                      | 483   |
| <b>ENVIRONMENTAL</b>  |   |
| 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   | 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.)                                   | 0-10,000 ft.  |
| Audible Noise   | 57 dBA at 1m front side   |
| Operating Elevation (m)                                     | 0-3000 m  |
| <b>COMMUNICATIONS</b>                                       |   |
| Communications Interface                                    | Contact closure; DB9 Serial; EPO (emergency power off); Pre-installed network card; Slot for SNMP/Web interface; USB (HID enabled)  |
| 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 Local software at <a href="http://www.tripplite.com/poweralert">http://www.tripplite.com/poweralert</a>  |
| Communications Cable  | USB and DB9 cabling included  |
| WatchDog Compatibility                                      | Supports Watchdog application, OS and hard-reboot restart options for remote applications   |
| <b>LINE / BATTERY TRANSFER</b>                              |   |
| 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   |
| <b>SPECIAL FEATURES</b>                                     |   |
| Cold Start (Startup in Battery Mode During a Power Failure) | Cold-start operation supported  |



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|  |   |
|--|---|
| High Availability UPS Features                             | Automatic inverter bypass; Hot swappable batteries  |
| Green Energy-Saving Features                               | High efficiency economy mode operation; Individually controllable load banks; Schedulable daily hours of economy mode operation                       |
| <b>CERTIFICATIONS</b>                                      |   |
| UPS Certifications   | ENERGY STAR Qualified; Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances); Tested to CSA (Canada); Tested to UL1778 (USA) |
| <b>WARRANTY</b>  |   |
| Product Warranty Period (Worldwide)                        | 2-year limited warranty   |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico) | \$250,000 <a class="insuranceLink" href="//www.tripplite.com/support/insurance-policy">Ultimate Lifetime Insurance</a>                                |

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