

# 120V 2200VA 1.8kW Double-Conversion UPS - 7 Outlets, Extended Run, Card Slot, LCD, USB, DB9, 2U

MODEL NUMBER: SU2200RTXLCD2U



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 reconverting UPS output to fully regulated sine wave AC with +/-2% voltage regulation in online and battery modes. Featuring a 1800W capacity, high 0.8 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® SU2200RTXLCD2U 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

Six NEMA 5-15/20R outlets are split evenly into two switchable three-outlet load banks, allowing you to reboot select components or shed loads remotely. In addition to those six outlets, this UPS provides one unswitched NEMA L5-20R outlet for powering a critical component or in-rack PDU.

### Reliable, Expandable Battery Backup Keeps You Operational Through Power Outages

The field-replaceable, hot-swappable internal battery provides 12 minutes of support at half load (900W) and four minutes at full load (1800W), 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 BP48V24-2U (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.

### Set Output Frequency to Match That of Your Connected Equipment

Using the UPS in Frequency Conversion mode will correct or convert the incoming frequency of 50 Hz to output 60 Hz (and vice versa).

### Intuitive Front-Panel Interface for Convenient UPS Operation and Monitoring

## 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
- Optional WEBCARDLX network interface required to use Auto Probe feature
- 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

- SU2200RTXLCD2U SmartOnline Double-Conversion UPS
- USB cable
- RS-232 cable
- EPO cable
- 4-post rack-mounting hardware
- Owner's manual



The 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 Shutdowns

RS-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.

#### Optional WEBCARDLX Network Interface Offers 24/7 Access

The SU2200RTXLCD2U includes a slot for an optional Java-free HTML5-based WEBCARDLX (sold separately) 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 15.5.2 or later is required to use the Auto Probe feature, which can prevent costly service calls by automatically rebooting non-responsive network devices.

#### Versatile Installation Options

Hardware 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 5-20P plug connects to any compatible AC outlet.

## Specifications

| OVERVIEW                           |                                             |
|------------------------------------|---------------------------------------------|
| UPC Code                           | 037332168955                                |
| UPS Type                           | On-Line                                     |
| INPUT                              |                                             |
| 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                                |
| OUTPUT                             |                                             |
| Output Volt Amp Capacity (VA)      | 2200                                        |
| Output kVA Capacity (kVA)          | 2.2                                         |



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|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output Watt Capacity (Watts)                  | 1800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Output kW Capacity (kW)                       | 1.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Output Capacity Details                       | 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)<br><br>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 factory-default nominal voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Frequency Compatibility                       | 50 / 60 Hz; Supports 50 to 60 Hz and 60 to 50 Hz conversion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>BATTERY</b>                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Battery Type                                  | Valve Regulated Lead Acid (VRLA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 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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|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Relative Humidity                                           | 0 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%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Audible Noise                                               | 57 dBA at 1m front side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Operating Elevation (m)                                     | Up to 3000m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>COMMUNICATIONS</b>                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Network Management Cards                                    | <a href="http://www.tripplite.com/SNMP-Web-Management-Accessory-Card-SmartPro-SmartOnline-UPS-Systems~SNMPWEBCARD">SNMPWEBCARD</a> ; <a href="http://www.tripplite.com/Web-Management-Accessory-Card-SmartPro-SmartOnline-UPS-Systems~TLNETCARD">TLNETCARD</a> ; <a href="http://www.tripplite.com/Web-Management-Accessory-Card~WEBCARDLX">WEBCARDLX</a> ; <a href="http://www.tripplite.com/MODBUS-Management-Accessory-Card-UPS-Remote-Monitoring-Control~MODBUSCARD">MODBUSCARD</a> ; <a href="http://www.tripplite.com/Programmable-Relay-I-O-Card~RELAYIOCARD">RELAYIOCARD</a> ; |
| Network Monitoring Port Description                         | 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="https://www.tripplite.com/poweralert">https://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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Communications Interface                                    | Contact closure; DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface; USB (HID enabled)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| High Availability UPS Features                              | Auto Probe Monitoring and Reboot (requires WEBCARDLX); 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                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>STANDARDS &amp; COMPLIANCE</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)                                                                                                                                                                                                                                                                                                                                                                                                                                  |



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| WARRANTY                                                   |                                                                                                                        |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| 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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