

## SmartOnline 120V 2.2kVA 1.8kW Double-Conversion UPS, Tower, Extended Run, Network Management Card Slot, LCD, USB, DB9

MODEL NUMBER: **SU2200XLCD**



### Description

Do you need to protect medium- to large-size servers, networking equipment and telecom systems against data loss, downtime and equipment damage due to power outages, voltage fluctuations and transient surges? Tripp Lite's SU2200XLCD SmartOnline® Tower UPS System is the solution! Featuring a 2200VA/1800W capacity and true on-line operation with pure sine wave output and zero transfer time to battery, it provides the highest level of power protection for mission-critical equipment. The SU2200XLCD's large internal battery set supports connected equipment during blackouts, and runtime is expandable with optional external battery packs [BP48V24-2U](#) (limit 1), [BP48V60RT-3U](#) (multi-pack compatible) and [BP48V27-2US](#) (multi-pack compatible), sold separately. The SU2200XLCD has 7 AC outlets (6 5-15/20R, 1 L5-20R), including 2 load banks of 3 outlets each that are individually controllable to reboot select equipment on demand or maximize battery runtime for mission-critical equipment. USB and [DB9](#) communication ports support messaging of detailed UPS operational parameters and line power status. PowerAlert UPS management software is available via free download. The SU2200XLCD also accepts an optional network management card option. It comes backed by \$250,000 of [Ultimate Lifetime Insurance](#) (U.S., Canada, and Puerto Rico only).

### Features

Ideal for Protection of Mission-Critical Equipment

The SU2200XLCD provides true on-line operation, reliable battery backup and comprehensive power management capability in a compact tower form factor. Featuring a 2200VA/1800W capacity, 7 AC outlets (6 5-15/20R, 1 L5-20R), a 10-ft. cord with 5-20P plug, USB/[DB9](#) ports and a slot for an optional network management card option, the SU2200XLCD offers a complete power protection solution for medium- to large-size servers, storage devices, telecom systems and other mission-critical equipment.

### Highlights

- 2200VA / 2.2kVA / 1800 watt on-line double-conversion tower UPS
- 100/110/120/127V 50/60Hz output, 97% efficiency economy mode option
- Interactive LCD with 10 selectable screens of UPS and site power data
- Expandable runtime, Hot-swappable batteries
- USB, RS232 & EPO ports, slot for network management card options
- 2 independently switched load banks
- NEMA 5-20P input; 6 5-15/20R & 1 L5-20R outlets

### Package Includes

- SU2200XLCD SmartOnline® Tower UPS System
- USB, [DB9](#) and EPO Cables
- Owner's Manual



#### True On-Line Operation with Pure Sine Wave Output and Zero Transfer Time

The SU2200XLCD provides the highest level of protection available for mission-critical equipment. It actively converts raw incoming AC power to DC, then re-converts it back to regulated, filtered AC output with a pure sine wave, completely isolating connected components from all power problems. Zero transfer time between AC and battery operation maintains continuous output and further protects connected equipment from the disruptive effects of blackouts and severe low-voltage conditions. Sine wave output guarantees compatibility with all equipment types.

#### Individually Controllable Outlets

The SU2200XLCD includes 2 load banks of 3 outlets each that are individually controllable via a software interface for remote reboot of locked-up equipment or load shedding to maximize battery backup time for mission-critical equipment.

#### Reliable, Expandable Battery Backup

UPS battery backup keeps connected equipment operational through short power failures, and provides time to save data and perform an orderly system shutdown in case of a prolonged blackout. The SU2200XLCD features a large internal battery set that provides 13 minutes of battery support for a half load (900 watts) and 4.5 minutes for a full load (1800 watts). During normal operation, incoming utility power keeps the UPS battery fully charged so that backup power will always be available if needed. Intelligent battery management system extends battery life. For mission-critical applications demanding continuous uptime, the fully scalable SU2200XLCD can provide expandable runtime with optional external battery packs [BP48V24-2U](#) (limit 1), [BP48V60RT-3U](#) (multi-pack compatible) and [BP48V27-2US](#) (multi-pack compatible), sold separately.

#### High Power Factor and Highly Efficient Operation Reduces BTU Output

The SU2200XLCD features a high 0.82 power factor and an optional, highly efficient economy mode setting that can significantly reduce a facility's energy costs. In economy mode, the UPS operates with 97% efficiency, minimizing heat output, reducing cooling requirements and consuming less electricity.

#### AC Line and Tel/Ethernet Surge Suppression

A sudden power surge or spike can damage or destroy electronic components and wipe out irreplaceable data. The SU2200XLCD features a 570-joule surge suppression rating to protect connected components and data from the harmful effects of power surges. One set of tel/Ethernet (RJ45) jacks provides surge protection for a standard phone or network connection (cable not included).

#### EMI/RFI Line Noise Filtering

Various electrical and radio sources can cause disruptive interference on the AC line. This line noise is a common cause of incremental hardware damage, data corruption and audio/video performance problems. The SU2200XLCD incorporates technology that filters out disruptive line noise, preventing it from affecting your equipment.

#### LCD Screen and Audible Alarm

The SU2200XLCD features a front-panel LCD screen that enables IT personnel to monitor line power, on-



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line mode, bypass mode, on-battery, overload, battery low, replace battery and fault status information. It is supplemented by an audible alarm that signals UPS startup, power failure, low battery, overload, UPS fault and remote shutdown conditions.

#### Emergency Power Off (EPO) Capability

The SU2200XLCD features an EPO interface port that supports emergency shutoff in large facilities (cable included).

#### USB/DB9 Ports, Management Card Options and Included PowerAlert Software

SU2200XLCD includes HID-compliant USB interface that enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. USB and DB9 ports enable data-saving unattended shutdown when used with Tripp Lite's PowerAlert software, available via FREE download from [www.tripplite.com/poweralert](http://www.tripplite.com/poweralert). Compatible with Tripp Lite UPS management card options TLNETCARD, WEBCARDLX, SNMPWEBCARD, MODBUSCARD and RELAYIOCARD.

#### Peace of Mind

The SU2200XLCD comes with \$250,000 Ultimate Lifetime Insurance (U.S., Canada, and Puerto Rico only) for connected equipment.

## Specifications

| 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             | ON LINE MODE: Maximum output capacity rating is reduced to 1620W (115V), 1530W (110V) and 1440W (100V); 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 Output Voltage(s) Supported | 100V; 110V; 120V; 127V  |
| Nominal Voltage Details             | 120V default  |
| 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.<br>FREQUENCY REGULATION / CONVERSION MODE: Output is regulated to +/-0.05Hz of selected output frequency when input is 40 to 70Hz; UPS switches to battery mode when input frequency is below 40Hz or above 70Hz.<br>BATTERY MODE: Output is regulated to +/-0.05Hz of selected nominal. |
| 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 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; 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)                     | 3.0   |
| Recommended Electrical Service                | 20A 120V  |
| Input Phase                                   | Single-Phase  |
| <b>BATTERY</b>                                |   |
| Full Load Runtime (min.)                      | 4.5 min. (1800w)  |
| Half Load Runtime (min.)                      | 13 min. (900w)  |
| Expandable Battery Runtime                    | Extended runtime supported via optional external battery packs  |
| External Battery Pack Compatibility           | <u>BP48V24-2U</u> (limit 1); <u>BP48V60RT-3U</u> (multi-pack compatible); <u>BP48V27-2US</u> (multi-pack compatible)  |
| Expandable Runtime Description                | 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 from 10% to 90%   |
| Internal UPS Replacement Battery Cartridge    | <u>RBC48-SUTWR</u>  |



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|--|---|
| Battery Access                               | Battery access door   |
| Battery Replacement Description              | Hot-swappable, user replaceable batteries   |
| Expandable Runtime                           | Yes   |
| <b>VOLTAGE REGULATION</b>                    |   |
| Voltage Regulation Description               | Online, double-conversion power conditioning  |
| Overvoltage Correction                       | 2% output voltage regulation during overvoltages to 150   |
| Undervoltage Correction                      | 2% output voltage regulation during undervoltages to 55V (33% load), 70V (70% load), 100V (100% 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/self-test operation   |
| 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>             |   |
| 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>                              |   |
| Primary Form Factor                          | Tower   |
| UPS Power Module Dimensions (hwd, in.)       | 10.2 x 9 x 19.5   |
| UPS Power Module Dimensions (hwd, cm)        | 25.91 x 22.86 x 49.53   |
| UPS Power Module Weight (lbs.)               | 52.9  |
| UPS Power Module Weight (kg)                 | 24.00   |
| UPS Shipping Dimensions (hwd / in.)          | 15.2 x 13 x 24  |
| UPS Shipping Dimensions (hwd / cm)           | 38.61 x 33.02 x 60.96   |
| Shipping Weight (lbs.)                       | 58.2  |
| Shipping Weight (kg)                         | 26.4  |
| Cooling Method                               | Fan   |



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|   |  |
|---|--|
| UPS Housing Material                              | Steel  |
| Primary UPS Height (mm)                           | 259  |
| Primary UPS Width (mm)                            | 229  |
| Primary UPS Depth (mm)                            | 495  |
| Shipping Height (mm)                              | 386  |
| Shipping Width (mm)                               | 330  |
| Shipping Depth (mm)                               | 610  |
| <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                                 | 0 to 95%, non-condensing   |
| AC Mode BTU / Hr. (Full Load)                     | 684  |
| AC Economy Mode BTU / Hr. (Full Load)             | 190  |
| Battery Mode BTU / Hr. (Full Load)                | 1087   |
| AC Mode Efficiency Rating (100% Load)             | 92%  |
| AC Economy Mode Efficiency Rating (100% Load)     | 97%  |
| Audible Noise                                     | < 50.5 dB at front side 1m   |
| <b>COMMUNICATIONS</b>                             |  |
| Communications Interface                          | USB (HID enabled); DB9 Serial; Contact closure; EPO (emergency power off); Slot for SNMP/Web interface   |
| Network Management Cards                          | SNMPWEBCARD; TLNETCARD; WEBCARDLX; MODBUSCARD; RELAYIOCARD   |
| 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="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 transfer time (0 ms.) in online, double-conversion and frequency regulation / conversion modes;   |
| Low Voltage Transfer to Battery Power (Setpoint)  | 55V (33% load), 70V (70% load), 100V (100% load)   |
| High Voltage Transfer to Battery Power (Setpoint) | 150  |





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| SPECIAL FEATURES  |   |
|---|---|
| Cold Start (Startup in Battery Mode During a Power Failure) | Cold-start operation supported  |
| 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 |
| CERTIFICATIONS  |   |
| UPS Certifications  | Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category A (EMI)                      |
| WARRANTY  |   |
| Product Warranty Period (Worldwide)                         | 2-year limited warranty   |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico)  | \$250,000 <u>Ultimate Lifetime Insurance</u>  |

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