Use optional WEBCARDLXE web card
Not compatible with WEBCARDLX

# SmartOnline 1960VA 1770W 120V Double-Conversion UPS - 7 Outlets, Extended Run, Network Card Option, LCD, USB, DB9, Tower

MODEL NUMBER: **SU2200XLCD**



Provides pure sine wave output in education, healthcare, military, government and other IT applications in small or mid-size networks.

## Highlights

- Updated design for 2023
- Protects equipment against blackouts, brownouts, transient surges and line noise
- Keeps equipment running during outages to allow time for file saves and safe shutdown
- Zero transfer time between on-line and battery modes for uninterrupted operation
- Optional WEBCARDLXE network card enables full remote access and control
- Menu-driven LCD keeps you up to date with status info and other vital analytics

## Package Includes

- 1960VA 1770W 120V Double-Conversion UPS
- USB cable
- DB9 cable
- Quick Start Guide

## Features

**Double-Conversion UPS Protects Equipment Against Damage, Downtime and Data Loss**
This on-line double-conversion UPS system maintains perfect output by converting AC input to DC, then reconverting UPS output to fully regulated sine wave AC. Constant on-line operation isolates sensitive equipment from power problems on the AC line. The SmartOnline® SU2200XLCD provides the highest level of power protection and battery backup for education, healthcare, military, government and other mission-critical IT applications where space is limited, but premium power reliability is essential.

**Reliable, Expandable Battery Backup Keeps You Operational Through Power Outages**
The field-replaceable, hot-swappable VRLA battery modules allow you to work through short power failures and give you enough time to safely save files and shut down your system in case of a prolonged blackout. Zero transfer time between on-line and battery modes maintains continuous operation of connected equipment without interruption or rebooting. Extra runtime is available by connecting up to four optional extended battery modules (BP96V, sold separately).

**Optional LX Platform Network Management Card Allows Remote Access 24/7**
The WEBCARDLXE network interface (sold separately) enables full remote configuration and management, including load shedding, reboots of connected equipment and safe shutdowns. The IP-based Auto Probe feature ensures continuous network uptime by communicating with other network devices, detecting lost connectivity and automatically rebooting IT equipment. Optional EnviroSense2 modules (E2MT, E2MTDO and E2MTHDI, all sold separately) provide a variety of environmental monitoring and control options.

**NEMA Outlets Protect Your Connected Components**
One L5-20R and six 5-20R outlets provide connected equipment with pure sine wave AC output and allow you to manage power consumption down to the outlet group level. Power provided by these outlets is filtered to protect connected equipment against damaging surges and line noise. Four 5-20R outlets and the L5-20R are grouped into two load banks that let you shed non-critical loads to extend runtime for critical loads.

**Premium Protection from EMI/RFI Line Noise Helps Your Equipment Perform Better**

This UPS system filters out disruptive electromagnetic and radio frequency interference that can inflict hardware damage or data loss. This EMI/RFI filtering also helps your connected components perform better and last longer.

**Clear LCD Interface Keeps You Informed at a Glance**
The menu-driven front-panel LCD provides detailed alarms and notifications to help diagnose any issues. It provides system status, event logs, battery and power module status, usage analytics, serial number, firmware update info and more. Audible alarms can be disabled through the front menu when the UPS goes to battery power.

**Advanced Communications Ports Allow for Automatic Saves and Shutdowns**
RS-232 and USB ports connect to a device for a variety of communication options (cables are included). A dry-contact relay port can be programmed through the LCD to provide reliable communications to automation and industrial components. The RPO/ROO port permits emergency shutdown or remote restart of all connected equipment.**Automatically Turns Back On After Power Is Restored**
Battery-independent restart ensures automatic UPS power-up without user interaction after lengthy power outages, even after a complete battery discharge.

**Supports Tower Installation on a Flat Surface**
Place the SU2200XLCD on a table, shelf, pedestal or floor in your data center, computer room, network closet, workbench, dispatch console, security workstation or other professional work surface. The eight-foot input cord with NEMA 5-20P plug connects to a compatible AC outlet.

# Specifications

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| **OVERVIEW** | |
| UPC Code | 037332174659 |
| UPS Type | On-Line |
| **INPUT** | |
| Input Phase | Single-Phase |
| 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 |
| UPS Input Cord Length (ft.) | 8 |
| UPS Input Cord Length (m) | 2.4 |
| Recommended Electrical Service | 120V |
| Maximum Input Amps | 16 |
| Input Plug Type | NEMA 5-20P |
| Input Cord Length (ft.) | 8 |
| Input Cord Length (m) | 2.44 |
| Power Factor (Input) | 0.99 |
| **OUTPUT** | |
| Output Capacity (VA) | 1960 |

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| Output Capacity (kVA) | 1.96 |
| Output Capacity (Watts) | 1770 |
| Output Capacity (kW) | 1.77 |
| Power Factor | 0.9 |
| Crest Factor | 3:1 |
| Nominal Voltage Details | 120V default |
| Frequency Compatibility | 50 / 60 Hz |
| Frequency Compatibility Details | Online Mode: Sync with line ±5% of nominal line frequency (outside this range: ±0.5% of auto-selected nominal frequency). Battery Mode: ±0.5% of auto-selected nominal frequency |
| Output Voltage Regulation (Line Mode) | +/- 2% |
| Output Voltage Regulation (Economy Line Mode) | +/- 2% |
| Output Voltage Regulation (Battery Mode) | +/- 3% |
| Load Management Receptacles | Two switchable load banks: (1) Two-outlet and (1) Three-outlet |
| Output AC Waveform (AC Mode) | Pure Sine wave |
| Output AC Waveform (Battery Mode) | Pure Sine wave |
| Nominal Output Voltage(s) Supported | 100V; 110V; 120V |
| Output Receptacles | (6) 5-20R; (1) L5-20R |
| Individually Controllable Load Banks | Yes |
| **BATTERY** | |
| Battery Type | Valve Regulated Lead Acid (VRLA) |
| Runtime Full Load (min.) | 10.4 min. (1770W) |
| Runtime Half Load (min.) | 26.2 min. (885W) |
| Expandable Runtime | Yes |
| Expandable Runtime Description | Add up to 4 EBMs. Part number  <a class="productLink" href="//tripplite.eaton.com/External-96V-Battery-Pack-for-Tripp-Lite-SmartOnline-UPS~BP96V">BP96V</a> .<br>*Note:  <a class="productLink" href="//tripplite.eaton.com/External-96V-Battery-Pack-for-Tripp-Lite-SmartOnline-UPS~BP96V">BP96V</a>  is compatible only with the SU2200XLCD 2023 UPS design update featured on this page. For previous SU2200XLCD design battery pack functionality, please see the Legacy Product Datasheet under the Support tab, Documents & Downloads section. |
| External Battery Pack Compatibility |  <a class="productLink" href="//tripplite.eaton.com/External-96V-Battery-Pack-for-Tripp-Lite-SmartOnline-UPS~BP96V">BP96V</a>  |
| DC System Voltage (VDC) | 96 |
| Battery Access | Battery access door |
| Internal UPS Replacement Battery Cartridge |  <a class="productLink" href="//tripplite.eaton.com/replacement-battery-for-eaton-9sx-2kva-3kva-ups~744-A4313">744-A4313</a> <br>*Note:  <a class="productLink" href="//tripplite.eaton.com/replacement-battery-for-eaton-9sx-2kva-3kva-ups~744-A4313">744-A4313</a>  is the replacement battery for the SU2200XLCD 2023 UPS design update featured on this page. For the replacement battery in the previous design of SU2200XLCD, please see the Legacy Product Datasheet under the Support tab, Documents & Downloads section. |
| Battery Replacement Description | User replaceable batteries |

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| **VOLTAGE REGULATION** | |
| Voltage Regulation Description | Online, double-conversion power conditioning |
| **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 | RPO / ROO |
| 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 |
| **SURGE / NOISE SUPPRESSION** | |
| EMI / RFI AC Noise Suppression | Yes |
| AC Suppression Joule Rating | 190 |
| AC Suppression Response Time | Instantaneous |
| **PHYSICAL** | |
| Primary Form Factor | Tower |
| Rack Height | 0U |
| Cooling Method | Fan |
| Installation Form Factors Supported with Included Accessories | Tower |
| Shipping Dimensions (hwd / in.) | 19.30 x 12.60 x 22.64 |
| Shipping Dimensions (hwd / cm) | 49.02 x 32.00 x 57.51 |
| Shipping Weight (lbs.) | 82.02 |
| Shipping Weight (kg) | 37.20 |
| UPS Housing Material | Metal |
| Unit Dimensions (hwd / in.) | 13.630 x 8.430 x 16.230 |
| Unit Weight (lbs.) | 73.42 |
| Unit Weight (kg) | 33.30 |
| **ENVIRONMENTAL** | |
| Operating Temperature Range | 32° to 104°F (0° to 40°C) |
| Storage Temperature Range | With battery: 32° to 104°F (0° to 40°C); without battery: -13° to 131°F (-25° to 55°C) |
| Relative Humidity | 0-96% non-condensing |
| AC Mode Efficiency Rating (100% Load) | 0.88 |
| Online Mode Heat Dissipation (BTU/Hr) @ Full Load | 682 |

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| Operating Elevation | 0-10000 ft. (0-3000 m) |
| Audible Noise | 52 dB |
| **COMMUNICATIONS** | |
| Network Management Cards |  <a class="productLink" href="//tripplite.eaton.com/Network-Card-Eaton-Tripp-Lite-Series-UPS-Systems~WEBCARDLXE">WEBCARDLXE</a>  |
| Network Monitoring Port Description | WEBCARDLXE Supports detailed monitoring of UPS and site power conditions; DB9 port supports RS232 and contact closure communications; not compatible with WEBCARDLX |
| 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 RS232 cabling included |
| WatchDog Compatibility | Supports Watchdog application, OS and hard-reboot restart options for remote applications |
| Network Management Card Description | Network management card optional |
| Communications Interface | (1) Contact closure; (1) RS-232; (1) Slot for SNMP/Web interface; (1) USB |
| Emergency Power Off (EPO)/Remote On-Off (ROO) | Yes |
| **LINE / BATTERY TRANSFER** | |
| Transfer Time | 0 ms |
| **FEATURES & SPECIFICATIONS** | |
| Cold Start (Startup in Battery Mode During a Power Failure) | Cold-start operation supported |
| High Availability UPS Features | Expandable battery backup; On-Line/Double-Conversion; Pure sine wave output; Remote management; Surge/noise protection; Zero transfer time |
| Green Energy-Saving Features | High efficiency economy mode operation; Individually controllable load banks |
| **APPLICATIONS** | |
| UPS Applications | Mission Critical Applications |
| **STANDARDS & COMPLIANCE** | |
| Product Certifications | CAN/CSA-C22.2 No. 107.3 (Canada); UL 1778; NOM (Mexico); cTUVus |
| Product Compliance | CE (Europe); FCC (USA); REACH; RoHS |
| **WARRANTY & SUPPORT** | |
| Product Warranty Period (Worldwide) | 2-year limited warranty |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico) | $250,000 <a class="insuranceLink" href="//tripplite.eaton.com/support/insurance-policy">Ultimate Lifetime Insurance</a>  |
| Extended Service Plans | 5-year depot exchange plan: TL9SW5Y-2200UCParts, electronics and UPS batteries coverageNext business day shippingTechnical support5-year onsite plan: TLWFLN75XX-2509UCOnsite parts and labor coverage for 5 yearsParts, electronics and UPS batteries coverage24x7 onsite labor coverage, next-day responseNext-day shippingTechnical support |

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