





# SmartOnline 120V 1.5kVA 1.2kW Double-Conversion UPS, Tower, Extended Run, Network Card Options, USB, DB9 Serial

MODEL NUMBER: SU1500XL





#### Description

Tripp Lite's SmartOnline SU1500XL on-line, double conversion UPS protects critical server, networking or telecommunications equipment from blackouts, brownouts, voltage fluctuations and surges. Largecapacity 1.5kVA/1200W UPS continuously converts incoming AC to DC, then back to perfect sine wave AC output at 120V AC (+/-2%). Removes harmonic distortion, fast electrical impulses, frequency fluctuations and other hard-to-solve power problems not addressed by other UPS systems. True sine wave output and zero transfer time provides guaranteed compatibility with all equipment types. Highly efficient operation in optional economy mode setting, saving BTU heat output and energy costs. Includes 6 UPS-supported outlets. 2 load banks, each with 3 outlets, can be independently controlled via a software interface to selectively reboot remote equipment or automatically shed less critical loads to extend battery runtime for the most critical equipment. Battery backup time can be extended with the addition of multiple external battery packs. Includes slot for network management card options, plus DB9 enhanced serial monitoring port for unattended shutdown, remote control and monitoring of UPS system and power data. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. Tripp Lite's PowerAlert UPS Management Software is available via free download. Compatible with Tripp Lite's Watchdog Service Monitoring/Rebooting Software. Attractive all-black upright tower format. \$250,000 Ultimate Lifetime Insurance (U.S., Canada, and Puerto Rico only)

### **Features**

- True on-line, double conversion UPS provides constant, pure sine wave AC output
- · Zero transfer time, on-line, double-conversion and economy-mode operation supported
- Maintains continuous operation through blackouts, brownouts, voltage fluctuations and surges with zero transfer time

## **Highlights**

- 1500VA / 1.5kVA / 1200 watt on-line double-conversion tower **UPS**
- 110/120V +/-2% output at 50/60Hz, high efficiency economy mode option
- · Expandable runtime, Hotswappable battery modules
- USB. RS232 & EPO ports: support for network management card options
- Front panel status LEDs with detailed load and battery metering
- 2 independently switchable output load banks
- NEMA 5-15P input; 5-15R outlets
- To use the Auto Probe feature, this product requires a WEBCARDLX network interface (sold separately) running LX firmware update 15.5.2 or later

#### Package Includes

- SU1500XL UPS System
- · USB, DB9 and EPO cabling
- Owner's manual with warranty information

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- Removes harmonic distortion, electrical impulses, frequency variations and other hard-to-solve power problems
- Accepts input voltages between 80V and 150V (65V to 150V at loads under 70%), regulating output to 120V AC +/-2%
- 1500VA/1200W output capacity with 6 NEMA 5-15R outlets
- Two built-in, individually switchable load banks, each with 3 outlets, can be controlled via software
  interface to selectively reboot remote equipment or automatically shed less critical loads to extend
  battery runtime for the most critical equipment
- · Standard internal battery set provides 14 min. runtime at half load and 4.5 min. at full load
- Runtime is expandable with BP48V60RT-3U and BP48V27-2US external battery packs
- Intelligent battery management system extends battery life
- Some external battery configurations require the use of Tripp Lite's External Battery Configuration Software (see manual)
- Attractive all-black upright tower format
- Simultaneous communications via HID-compliant USB port, DB9 serial port, and SNMP/web card slot
- HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X
- USB & Serial ports enable data-saving unattended shutdown when used with Tripp Lite's PowerAlert software, available via FREE download from <a href="https://www.tripplite.com/poweralert">www.tripplite.com/poweralert</a>
- DB9 serial network interface supports RS-232 and contact closure messaging
- Compatible with Tripp Lite UPS management card options TLNETCARD, WEBCARDLX, SNMPWEBCARD, MODBUSCARD and RELAYIOCARD
- Compatible with Tripp Lite's WatchDog Service Monitoring/Rebooting Software (part # WATCHDOGSW)
- Fault tolerant electronic bypass maintains utility output during a variety of UPS fault conditions
- Diagnostic LEDs
- Built-in RJ-11 EPO (Emergency Power Off) jack allows connection to site emergency power off systems
- \$250,000 Ultimate Lifetime Insurance (U.S., Canada, and Puerto Rico only) for connected equipment (USA and Canada Only)

## **Specifications**

| OVERVIEW |              |  |
|----------|--------------|--|
| UPC Code | 037332125859 |  |
| UPS Type | On-Line      |  |
| ОИТРИТ   |              |  |



| Output Volt Amp Capacity (VA)                 | 1500   |
|---|--|
| Output kVA Capacity (kVA)                     | 1.5  |
| Output Watt Capacity (Watts)                  | 1200   |
| Output kW Capacity (kW)                       | 1.2  |
| Power Factor                                  | 0.8  |
| Crest Factor                                  | 3:1  |
| Nominal Voltage Details                       | 120V default   |
| Frequency Compatibility                       | 50 / 60 Hz   |
| Frequency Compatibility Details               | Output frequency matches input nominal on startup, defaults to 60 Hz on cold-start   |
| Output Voltage Regulation (Line Mode)         | +/- 2%   |
| Output Voltage Regulation (Economy Line Mode) | +/- 10%  |
| Output Voltage Regulation (Battery Mode)      | +/- 2%   |
| Load Management Receptacles                   | Two switchable three-outlet 5-15R load banks   |
| Output AC Waveform (AC Mode)                  | Sine wave  |
| Output AC Waveform (Battery Mode)             | Pure Sine wave   |
| Output Capacity Details                       | 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) |
| Nominal Output Voltage(s)<br>Supported        | 100V; 110V; 120V   |
| Output Receptacles                            | (6) 5-15R  |
| Individually Controllable Load Banks          | Yes  |
| INPUT   |  |
| Rated input current (Maximum Load)            | 12A (120V), 14A (110V), 15.4A (100V)   |
| Nominal Input Voltage(s) Supported            | 100V AC; 110V AC; 120V AC  |
| UPS Input Connection Type                     | 5-15P  |
| Input Circuit Breakers                        | 20A  |
| UPS Input Cord Length (ft.)                   | 10   |
| UPS Input Cord Length (m)                     | 3.1  |
| Recommended Electrical Service                | 15A 120V   |
| Input Phase                                   | Single-Phase   |
| BATTERY                                       |  |
| Full Load Runtime (min.)                      | 4.5 min. (1200w)   |
| . ,   | <u> </u>   |





| Half Load Runtime (min.)                   | 14 min. (600w)  |
|--|---|
| Expandable Battery Runtime                 | Extended runtime supported via optional external battery packs  |
| External Battery Pack Compatibility        | <a class="productLink" href="//www.tripplite.com/External-48V-2U-Rack-Tower-Battery-Pack-for-UPS-Systems-BP48V27-2US~BP48V27-2US">BP48V27-2US</a> (multi-pack compatible); <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> (multi-pack compatible) |
| DC System Voltage (VDC)                    | 48  |
| Battery Recharge Rate (Included Batteries) | Less than 6 hours from 10% to 90% (typical, full load discharge)  |
| Internal UPS Replacement Battery Cartridge | <a class="productLink" href="//www.tripplite.com/UPS-Replacement-48VDC-Battery-Cartridge~RBC48-SUTWR">RBC48-SUTWR</a>   |
| Battery Access                             | Battery access door   |
| Battery Replacement Description            | Hot-swappable, user replaceable batteries   |
| Expandable Runtime                         | Yes   |
| VOLTAGE REGULATION                         |   |
| 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 80   |
| Severe Undervoltage Correction             | 2% output voltage regulation during undervoltages to 65 (under 70% load only)   |
| USER INTERFACE, ALERTS & CON               | NTROLS  |
| Switches                                   | 2 Switches control off/on power status and alarm-cancel/self-test operation   |
| Audible Alarm                              | Audible alarm indicates UPS startup, power-failure, low-battery, overload, UPS fault and remote shutdown conditions   |
| LED Indicators                             | 14 LEDs indicate line power, online mode, economy/bypass mode, on-battery, overload, battery low, replace battery and fault status information - includes 4-LED meter display for load and battery charge level   |
| 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                                   |   |
| Cooling Method                             | Fans  |
| Primary Form Factor                        | Tower   |
| Primary UPS Depth (mm)                     | 495   |
| Primary UPS Height (mm)                    | 259   |
| Primary UPS Width (mm)                     | 229   |





| Shipping Dimensions (hwd / cm)                   | 37.34 x 59.18 x 32.26   |
|--|---|
| Shipping Dimensions (hwd / in.)                  | 14.70 x 23.30 x 12.70   |
| Shipping Weight (kg)                             | 24.95   |
| Shipping Weight (lbs.)                           | 55.00   |
| UPS Housing Material                             | Steel   |
| UPS Power Module Dimensions (hwd, cm)            | 25.91 x 22.86 x 49.53   |
| UPS Power Module Dimensions (hwd, in.)           | 10.2 x 9 x 19.5   |
| UPS Power Module Weight (kg)                     | 22.36   |
| UPS Power Module Weight (lbs.)                   | 49.3  |
| ENVIRONMENTAL                                    |   |
| 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)                    | 612   |
| AC Economy Mode BTU / Hr. (Full Load)            | 127   |
| Battery Mode BTU / Hr. (Full Load)               | 667   |
| AC Mode Efficiency Rating (100% Load)            | 87%   |
| AC Economy Mode Efficiency Rating (100% Load)    | 97%   |
| Audible Noise                                    | < 45 dB at front side 1m  |
| COMMUNICATIONS                                   |   |
| 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; <a class="productLink" href="//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; Economy-mode setting option is available using PowerAlert software and DB9 Serial cable connection OR via select Network Management Card options |
| PowerAlert Software                              | For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert  |
| Communications Cable                             | USB and DB9 cabling included  |
| WatchDog Compatibility                           | Supports Watchdog application, OS and hard-reboot restart options for remote applications   |
| LINE / BATTERY TRANSFER                          |   |
| Transfer Time                                    | No transfer time (0 ms.) in online, double-conversion mode  |
| Low Voltage Transfer to Battery Power (Setpoint) | 80V (100% load), 65V ( <70% load)   |



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| High Voltage Transfer to Battery Power (Setpoint)           | 150   |  |
|---|---|--|
|   |   |  |
| 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 <a class="insuranceLink" href="//www.tripplite.com/support/insurance-policy">Ultimate Lifetime Insurance</a>          |  |

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