

## SmartOnline 1kVA On-Line Double-Conversion UPS, Tower, 100/110/120V NEMA outlets

MODEL NUMBER: **SU1000XLA**



### Description

Tripp Lite's Smart Online SU1000XLa on-line, double conversion UPS protects critical server, networking or telecommunications equipment from blackouts, brownouts, voltage fluctuations and surges in an attractive all-black upright tower form factor. Large capacity 1kVA/800 watt 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 offers 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 single-outlet load banks 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. Extended runtime available with optional BP24V15RT2U, BP24V28-2U or BP24V70-3U external battery packs. Includes slot for internal SNMP/web card, plus DB9 enhanced serial monitoring port for unattended shutdown, remote control and monitoring of UPS system and power data. Network management interfaces support simultaneous communications via USB port, DB9 serial port and SNMPWEBCARD slot. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. Includes Tripp Lite's PowerAlert UPS Power Management Software. Compatible with Tripp Lite's Watchdog Service Monitoring/Rebooting Software.

### Features

- True on-line, double conversion UPS provides a constant, pure sine wave AC output
- Maintains continuous operation through blackouts, brownouts, voltage fluctuations and surges with zero transfer time
- Zero transfer time, on-line, double-conversion and economy-mode operation supported
- Removes harmonic distortion, electrical impulses, frequency variations and other hard to solve power problems
- Accepts input voltages between 80 and 150 (65 to 150 at loads under 70%), regulating output to 120V AC +/-2%
- 1000VA/800 watt output capacity with 6 total outlets (6 NEMA5-15R)
- Two built-in individually switchable load banks 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 (2 banks of 1 outlet)
- Standard internal battery set provides 14 minutes runtime at half load and 4 minutes at full load

### Highlights

- 1000VA / 1kVA / 800 watt on-line double-conversion tower UPS
- 100/110/120V +/-2% output at 50/60Hz, high efficiency economy mode option
- Expandable runtime, Hot-swappable battery modules
- USB, RS232 & EPO ports; support for SNMP/WEB 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

### Package Includes

- SU1000XLa Online UPS System
- PowerAlert Software CD and cabling
- Owner's Manual with warranty information
- EPO (Emergency Power Off)cabling



- Extended runtime available with optional BP24V15RT2U, BP24V28-2U or BP24V70-3U external battery packs
- 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 use via HID-compliant USB port, 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.
- DB9 serial network interface supports RS-232 and contact closure messaging
- Slot for optional SNMP/web card (part# SNMPWEBCARD)
- Included PowerAlert UPS Power Management Software and cabling provides monitoring of in-depth site power conditions, full UPS status and fault warnings, output load level and load bank power control
- 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
- \$250,000 Ultimate Lifetime Insurance (USA and Canada Only)

## Specifications

| OUTPUT  |  |
|---|--|
| Output Volt Amp Capacity (VA)                 | 1000   |
| Output kVA capacity (kVA)                     | 1  |
| Output Watt Capacity (watts)                  | 800  |
| Output power factor                           | 0.8  |
| Crest Factor                                  | 3:1  |
| Nominal Output Voltage(s) Supported           | 100V; 110V; 120V   |
| 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%   |
| Built-in UPS output receptacles               | 6 5-15R outlet(s)  |
| Built-in controllable switched load banks     | Two switchable single-outlet 5-15R load banks                                      |
| Output AC waveform (AC mode)                  | Sine wave  |
| Output AC waveform (battery mode)             | Pure Sine wave   |
| INPUT   |  |



|  |   |
|--|---|
| Rated input current (at maximum load)                            | 8.6A  |
| Nominal Input Voltage(s) Supported                               | 100V AC; 110V AC; 120V AC   |
| UPS input connection type  | 5-15P   |
| Input circuit breaker  | 15A   |
| UPS Input cord length (ft.)                                      | 10  |
| UPS Input cord length (m)  | 3   |
| Recommended Electrical Service                                   | 15A 120V  |
| Phase  | Single-Phase  |
| <b>BATTERY</b>   |   |
| Full load runtime (minutes)                                      | 4.5 min. (800w)   |
| Half load runtime (minutes)                                      | 14 min. (400w)  |
| Expandable battery runtime                                       | Extended runtime supported via optional external battery packs  |
| External battery pack compatibility                              | <a href="#">BP24V15RT2U</a> (limit 1); <a href="#">BP24V28-2U</a> (limit 1); <a href="#">BP24V70-3U</a> (multi-pack compatible)   |
| DC system voltage (VDC)  | 24  |
| Battery recharge rate (included batteries)                       | Less than 6 hours from 10% to 90%   |
| Replacement battery cartridge (internal UPS battery replacement) | <a href="#">RBC24-SUTWR</a>   |
| Battery Access   | Battery access door   |
| Battery replacement description                                  | Hot-swappable, user replaceable batteries   |
| <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 80   |
| Severe undervoltage correction                                   | 2% output voltage regulation during undervoltages to 65 (under 70% load only)   |
| <b>LEDS ALARMS &amp; SWITCHES</b>                                |   |
| 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 |
| Alarms   | Audible alarm indicates UPS startup, power-failure, low-battery, overload, UPS fault and remote shutdown conditions   |
| Alarm cancel operation   | Power2 switches control off power operation and on power status, alarm-cancel, self-test, cold start operation.-fail alarm can be silenced using alarm-cancel switch  |
| Switches   | 2 switches control off/on power status and alarm-cancel/self-test operation   |
| <b>SURGE / NOISE SUPPRESSION</b>                                 |   |
| UPS AC suppression joule rating                                  | 570   |



|  |  |
|--|--|
| UPS AC suppression response time   | Instantaneous  |
| UPS Dateline suppression   | 1 line TEL/DSL (1 in / 1 out); 10/100Base T Ethernet   |
| EMI / RFI AC noise suppression   | Yes  |
| <b>PHYSICAL</b>  |  |
| Installation form factors supported with included accessories                          | Tower  |
| Primary form factor  | Tower  |
| UPS / Power Module dimensions in primary form factor (height x width x depth / inches) | 10 x 6.8 x 13.2  |
| UPS / Power Module dimensions in primary form factor (height x width x depth / cm)     | 25.4 x 17.1 x 33.7   |
| UPS / Power Module weight (lbs)  | 29.8   |
| UPS / Power Module weight (kg)   | 13.5   |
| UPS Shipping dimensions (height x width x depth / inches)                              | 14.2 x 10 x 18.5   |
| UPS Shipping dimensions (height x width x depth / cm)                                  | 36.2 x 25.4 x 47   |
| Shipping weight (lbs)  | 35.3   |
| Shipping weight (kg)   | 16   |
| Cooling method   | Fan  |
| UPS housing material   | Steel  |
| <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)  | 406.4  |
| AC economy mode BTU / hr. (full load)  | 173.6  |
| Battery mode BTU / hr. (full load)   | 406.4  |
| AC mode efficiency rating (100% load)  | 87%  |
| AC economy mode efficiency rating (100% load)  | 94%  |
| Audible Noise  | < 45 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 monitoring port description                         | Supports detailed monitoring of UPS and site power conditions; DB9 port supports RS232 and contact closure communications       |
| PowerAlert software   | Included  |
| 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   | No transfer time (0 ms.) in online, double-conversion mode  |
| Low voltage transfer to battery power (setpoint)            | 80V (100% load), 65V (<70% 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                              | Automatic inverter bypass; Hot swappable batteries  |
| Green & high efficiency features                            | High efficiency economy mode operation; Individually controllable load banks; Schedulable daily hours of economy mode operation |
| <b>CERTIFICATIONS</b>                                       |   |
| UPS Certifications  | Tested to UL1778 (USA); Tested to CSA (Canada); Meets FCC Part 15 Category B (EMI)  |
| <b>WARRANTY</b>   |   |
| Product Warranty Period (Worldwide)                         | 2-year limited warranty   |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico)  | \$250,000 <a href="#">Ultimate Lifetime Insurance</a>   |

## Related Items

### Optional Products

| Model Number                | Description  | Qty. |
|-----------------------------|--|------|
| <a href="#">SNMPWEBCARD</a> | For remote monitoring and control via SNMP, Web, or Telnet.  | 1    |
| <a href="#">ENVIROSENSE</a> | Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.) | 1    |
| <a href="#">SRSWITCH</a>    | Magnetic Door Switch Kit for front and rear doors; requires ENVIROSENSE                            | 1    |
| <a href="#">BP24V15RT2U</a> | BP24V15RT2U - External Battery Pack for UPS System   | 1    |
| <a href="#">BP24V28-2U</a>  | BP24V28-2U - External Battery Pack for UPS System  | 1    |
| <a href="#">BP24V70-3U</a>  | BP24V70-3U - External Battery Pack for UPS System  | 1    |



|                                |   |   |
|--------------------------------|---|---|
| <a href="#">WEXT3-500-1500</a> | 3-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 1500VA or less   | 1 |
| <a href="#">WEXT5-500-1500</a> | 5-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 1500VA or less   | 1 |
| <a href="#">PDUB15</a>         | Dual source Power Distribution Unit / PDU with Manual Transfer Switch enables Hot-swappable UPS Replacement in Critical Network Applications                                    | 1 |
| <a href="#">PDUMH15AT</a>      | Metered PDU with ATS - Power Distribution Unit with dual-input Auto Transfer Switching  | 1 |
| <a href="#">PDUMH15</a>        | Metered PDU / Power Distribution Unit - Safe, reliable power distribution with digital current meter  | 1 |
| <a href="#">PDUMNH15</a>       | Monitored PDU / Power Distribution Unit supports real-time remote monitoring of load level, voltage and frequency with options for remote environmental and security monitoring | 1 |
| <a href="#">PDUMH15NET</a>     | Single-Phase Switched PDU, 15A 120V, 1U Horizontal Rackmount, NEMA 5-15R outlets, NEMA 5-15P input plug   | 1 |
| <a href="#">RELAYIOCARD</a>    | Programmable Relay I/O Card   | 1 |
| <a href="#">MODBUSCARD</a>     | For remote monitoring and control via MODBUS protocol   | 1 |
| <a href="#">AS400CABLEKIT2</a> | Power Management Tools - UPS Communication Cable Kit for System i / AS400 / iSeries Servers   | 1 |
| <a href="#">730909</a>         | Power Management Tools - EPO Y Adapter Cable  | 1 |

More information, including related products, owner's manuals, and additional technical specifications, can be found online at:  
<http://www.tripplite.com/sku/SU1000XLA>.

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