



## Model #: SU1000XLA

### SmartOnline Expandable Tower UPS System - On-line, double-conversion protection for mission critical applications



#### Highlights

- 1000VA / 1kVA online, double-conversion, extended-run tower UPS
- Maintains sine-wave 120V +/-2% output during overvoltages to 138 and brownouts as low as 65V (50/60Hz auto-sensing)
- Simultaneous communications use via HID-compliant USB port, serial port, and SNMP/web card slot
- Fault tolerant auto-bypass mode, current monitoring and switched PDU control via 2 individually controllable load banks
- Input: NEMA 5-15P (120V 15A) / Output: 6 NEMA 5-15R (120V)
- 2 year product warranty

#### 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. 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 BP24V34, 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.

#### Applications

Ideal for protection of critical 120V servers, networking equipment and sensitive electronics. Common applications include corporate or departmental servers, workstations, hubs, routers, bridges, CAD/CAM workstations, concentrators, IP telephony and traditional PBX switching systems.

#### Package Includes

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

#### 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

Removes harmonic distortion, electrical impulses, frequency variations and other hard to solve power problems  
 Accepts input voltages between 80 and 138 (65 to 138 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  
 Extended runtime available with optional BP24V34, BP24V15RT2U, BP24V28-2U or BP24V70-3U external battery packs  
 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 auto-bypass maintains continuous utility output to connected equipment, even in cases where the UPS is overloaded or suffers an internal failure that requires service  
 Diagnostic LEDs

2 year manufacturer's product warranty

## Specifications

SYSTEM OVERVIEW	
<b>Voltage compatibility</b>	120V (100V, 110V) AC
<b>Frequency compatibility</b>	50/60 Hz compatible
OUTPUT	
<b>Output VA</b>	1000
<b>Output watts</b>	800
<b>Output nominal voltage</b>	120V AC
<b>Output voltage regulation</b>	Maintains full-time sine wave output within 2% of 120V, less than 5% total harmonic distortion
<b>Output frequency regulation</b>	Regulates line frequency to 50/60Hz +/- 0.05Hz
<b>Outlet quantity / type</b>	6 NEMA 5-15R
<b>Customized load management receptacles</b>	2 individually controllable single-outlet load banks support automated load shedding and remote reboot on demand of locked network devices. Configurable via PowerAlert software to automatically switch off optional loads, like monitors, to increase available runtime for servers and other critical devices.
<b>Overload protection</b>	Via 15A input breaker
INPUT	
<b>Maximum input amps</b>	8.6A
<b>Input connection type</b>	NEMA 5-15P
<b>Input cord length</b>	10 ft.
<b>Recommended Electrical Service</b>	15A 120V
BATTERY	
<b>Full load runtime</b>	4.5 minutes
<b>Half load runtime</b>	14 minutes

<b>Expandable battery runtime</b>	Extended runtime available with optional BP24V34, BP24V15RT2U, BP24V28-2U or BP24V70-3U external battery packs
<b>DC system voltage</b>	24VDC
<b>Typical battery lifespan</b>	3-6 years, depending on usage
<b>Battery recharge rate</b>	4-6 hours to 90%
<b>Replacement Battery Cartridge</b>	RBC24-SUTWR
<b>VOLTAGE REGULATION</b>	
<b>Voltage regulation description</b>	On-line, double-conversion power conditioning maintains output within 2% of 120 volts at all times
<b>Overvoltage correction</b>	Maintains output of 120V +/-2% during overvoltages to 138VAC
<b>Brownout correction</b>	Maintains output of 120V +/-2% during undervoltages to 80VAC
<b>Severe brownout correction</b>	Maintains output of 120V +/-2% during undervoltages to 65VAC (during load conditions of 70% or less)
<b>LEDS ALARMS &amp; SWITCHES</b>	
<b>Front panel LEDs</b>	14 STATUS LEDs offer LINE POWER, ONLINE, BYPASS, ON BATTERY, OVERLOAD, BATTERY LOW, REPLACE BATTERY and FAULT status information. Also includes 4 LED meters for LOAD LEVEL / BATTERY LEVEL display (Battery level readout requires pressing "test" key)
<b>Alarms</b>	Multi-function audible alarm offers notification of UPS start, backup operation, low battery warning, overload, UPS fault and remote shutdown
<b>Switches</b>	Includes combination main power on/test and main power off switch
<b>SURGE / NOISE SUPPRESSION</b>	
<b>AC suppression response time</b>	Instantaneous
<b>Dataline suppression</b>	RJ45 1-line TEL/Ethernet
<b>EMI / RFI AC noise suppression</b>	Yes
<b>PHYSICAL</b>	
<b>Shipping weight (lbs)</b>	35.3
<b>Shipping weight (kg)</b>	16
<b>Shipping Dimensions (HWD/in)</b>	14.25 x 10 x 18.5
<b>Shipping Dimensions (HWD/cm)</b>	36.2 x 25.4 x 47
<b>Unit weight (lbs)</b>	29.8
<b>Unit weight (kg)</b>	13.41
<b>Unit Dimensions (HWD/in)</b>	10 x 6.75 x 13.25
<b>Unit Dimensions (HWD/cm)</b>	25.4 x 17.1 x 33.7
<b>Material of construction</b>	Steel
<b>Form factors supported</b>	Tower
<b>Cooling method</b>	Fan

<b>Battery Access</b>	Supports battery access and hot-swap replacement without powering connected equipment off	
<b>ENVIRONMENTAL</b>		
<b>Operating Temperature</b>	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius	
<b>Storage Temperature</b>	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius	
<b>Relative Humidity</b>	0 to 95%, non-condensing	
<b>COMMUNICATIONS</b>		
<b>Network monitoring port</b>	Includes USB and DB9 serial ports. Built-in DB9 port offers both enhanced RS-232 enabled monitoring data, plus contact closure monitoring ability. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X.	
<b>Software and cabling included</b>	Yes, includes PowerAlert software CD-ROM and complete cabling	
<b>SNMP compatibility</b>	Yes, includes slot for optional SNMPWEBCARD accessory (#SNMPWEBCARD)	
<b>WatchDog compatibility</b>	Yes, compatible with Tripp Lite's Watchdog system service to restore operation to locked equipment through soft reboot of applications / OS or hard power off/on reboot of connected equipment — ideal for unattended kiosk applications	
<b>LINE / BATTERY TRANSFER</b>		
<b>Transfer time from line power to battery mode</b>	ZERO — online UPS continuously converts incoming AC to DC, then back to AC. When commercial power is interrupted, UPS maintains continuous output from battery reserves with absolutely no disruption in output AC power.	
<b>Low voltage transfer to battery power</b>	Maintains continuous operation during undervoltages as low as 80V (65V during load conditions of 70% or less). Below the switchover point, output is supported from battery derived AC power.	
<b>High voltage transfer to battery power</b>	Maintains continuous operation without using battery power during overvoltages to 138V. Above this point, output is supported from battery derived AC power.	
<b>SPECIAL FEATURES</b>		
<b>EPO port</b>	Supports EPO (emergency power off) via included cabling	
<b>Cold Start</b>	Yes, inverter can be "cold started" to enable temporary AC output during a power failure	
<b>Appearance</b>	Attractive all-black tower housing	
<b>BATTERY PACK ACCESSORY (optional)</b>		
<b>Battery Pack Accessory (optional)</b>	BP24V34, BP24V15RT2U, BP24V28-2U (limit of one per UPS) or BP24V70-3U (multi-pack compatible) external battery packs	
<b>CERTIFICATIONS</b>		
<b>Certifications</b>	Tested to UL1778 (USA), CSA C22.2 No. 107.3 (Canada), Class B (emissions), FCC Part 68 / Industry Canada (telecommunications), RoHS-compliant	
<b>WARRANTY</b>		
<b>Product warranty</b>	2 year product warranty	
<b>Optional coverage</b>	3-5 year warranties, plus next day and on-site warranty coverage available for select opportunities. Contact Tripp Lite for additional information.	

## Related Items

<b>Extended Warranties</b>		
WEXT3-500-1500	3-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 1500VA or less	Qty: [optional]
WEXT5-500-1500	5-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 1500VA or less	Qty: [optional]

<b>External Battery Packs</b>		
BP24V28-2U	BP24V28-2U - External Battery Pack for UPS System	Qty: [optional]
BP24V70-3U	BP24V70-3U - External Battery Pack for UPS System	Qty: [optional]
BP24V15RT2U	BP24V15RT2U - External Battery Pack for UPS System	Qty: [optional]
<b>Power Distribution</b>		
PDU1215	Basic PDU / Power Distribution Unit - Safe, reliable power distribution for critical networking equipment	Qty: [optional]
<b>Power Strips</b>		
PS7224	Tripp Lite Power Strip - Multiple outlets wherever you need them	Qty: [optional]
<b>Shutdown Cable Kits</b>		
AS400CABLE KIT	Power Management Tools - UPS Communication Cable Kit for System i / AS400 / iSeries Servers	Qty: [optional]
<b>SNMP Accessories</b>		
ENVIROSENSE	Power Management Tools - Environmental Sensor	Qty: [optional]
SNMPWEBCARD	Power Management Tools - Internal SNMP/Web Card	Qty: [optional]
<b>Surge Protectors</b>		
DTEL2	Network Surge Suppressor - Essential protection for data and communication lines	Qty: [optional]
DNET1	Network Surge Suppressor - Essential protection for data and communication lines	Qty: [optional]
DCATV	Network Surge Suppressor - Essential protection for TV/VCR coaxial lines	Qty: [optional]