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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 / \$250,000 [Ultimate Lifetime Insurance](#) (USA, Puerto Rico & Canada only)

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
 \$250,000 Ultimate Lifetime [connected equipment insurance](#) (USA & Canada only)
 2 year manufacturer's product warranty

Specifications

SYSTEM OVERVIEW	
Voltage compatibility	120V (100V, 110V) AC
Frequency compatibility	50/60 Hz compatible
OUTPUT	
Output VA	1000
Output watts	800
Output nominal voltage	120V AC
Output voltage regulation	Maintains full-time sine wave output within 2% of 120V, less than 5% total harmonic distortion
Output frequency regulation	Regulates line frequency to 50/60Hz +/- 0.05Hz
Outlet quantity / type	6 NEMA 5-15R
Customized load management receptacles	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.
Overload protection	Via 15A input breaker
INPUT	
Maximum input amps	8.6A
Input connection type	NEMA 5-15P
Input cord length	10 ft.
Recommended electrical service	15A 120V
BATTERY	
Full load runtime	4.5 minutes
Half load runtime	14 minutes

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

Battery Access	Supports battery access and hot-swap replacement without powering connected equipment off
ENVIRONMENTAL	
Operating Temperature	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius
Storage Temperature	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius
Relative Humidity	0 to 95%, non-condensing
COMMUNICATIONS	
Network monitoring port	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.
Software and cabling included	Yes, includes PowerAlert software CD-ROM and complete cabling
SNMP compatibility	Yes, includes slot for optional SNMPWEBCARD accessory (#SNMPWEBCARD)
WatchDog compatibility	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
LINE / BATTERY TRANSFER	
Transfer time from line power to battery mode	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.
Low voltage transfer to battery power	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.
High voltage transfer to battery power	Maintains continuous operation without using battery power during overvoltages to 138V. Above this point, output is supported from battery derived AC power.
CERTIFICATIONS	
Certifications	Tested to UL1778 (USA), CSA C22.2 No. 107.3 (Canada), Class B (emissions), FCC Part 68 / Industry Canada (telecommunications), RoHS-compliant
WARRANTY	
Product warranty	2 year product warranty
Connected equipment insurance (USA and Canada Only)	\$250,000 connected equipment insurance (USA and Canada only)
Optional coverage	3-5 year warranties, plus next day and on-site warranty coverage available for select opportunities. Contact Tripp Lite for additional information.
SPECIAL FEATURES	
EPO port	Supports EPO (emergency power off) via included cabling
Cold Start	Yes, inverter can be "cold started" to enable temporary AC output during a power failure
Appearance	Attractive all-black tower housing
BATTERY PACK ACCESSORY (optional)	
Battery Pack Accessory (optional)	BP24V34, BP24V15RT2U, BP24V28-2U (limit of one per UPS) or BP24V70-3U (multi-pack compatible) external battery packs

More information, including related products, owner's manuals, and additional technical specifications, can be found online at www.tripplite.com/products/model.cfm?txtModelID=3180.