SmartOnline Expandable Tower UPS System

Online, double-conversion protection for mission critical applications

Model #: SU1000XL

▶ 1000VA / 800 watt on-line expandable tower UPS system

▶ Enhanced serial communications port and SNMP/web card slot

▶ Maintains 120V +/-2% output during overvoltages to 138V and brownouts as low as 65V

▶ 2 load banks, 6 outlets

▶ Fault tolerant auto-bypass

▶ $250,000 Ultimate Lifetime Insurance (USA & Canada only)

DESCRIPTION

Tripp Lite's SmartOnline SU1000XL 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. 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 arranged in two individually switchable load banks that 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 support can be extended with the addition of multiple external battery packs (part# BP36V13). 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. Includes Tripp Lite's PowerAlert UPS Power Management Software. Compatible with Tripp Lite's Watchdog Service Monitoring/Rebooting Software.

KEY BUYING POINTS

- 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 3 outlets)
- Standard internal battery set provides 18 minutes runtime at half load
- Expandable runtime with multiple external battery packs (part# BP36V13)
- Attractive all-black upright tower format
- 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 maintians continuous utility output to connected equipment with no disruption in output AC, even in cases where the UPS is overloaded or experiences major component failure and requires service
- Diagnostic LEDs
- $250,000 Ultimate Lifetime connected equipment insurance (USA & Canada only)
- 2 year manufacturer's product warranty

TYPICAL 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.

OPTIONS & ACCESSORIES

- External battery pack: BP36V13
- SNMP accessories: SNMPWEBCARD, ENVIROSENSE
- Dataline protectors: DNET1, DTEL2, DCATV
- Circuit Tester: CT120
- Power distribution: PDU1215, PS7224
- Extended warranties: 3 Year WEXT3-500-1500, 5 Year WEXT5-500-1500

PACKAGE INCLUDES

- SU1000XL Online Double-Conversion UPS System
- PowerAlert Software and cabling
- Instruction manual with warranty information

COMPLETE SPECIFICATIONS

SYSTEM OVERVIEW	
System overview:	Online, double conversion tower UPS system continuously maintains near-perfect output power for critical internetworking and telecommunications equipment. Completely regenerates input power into perfectly regulated sine wave output free of harmonic distortion, fast electrical impulses and frequency fluctuations. Maintains output within 2% of 120V during brownouts as low as 65V and overvoltages to 138V. Supports enhanced monitoring of UPS and line power conditions via DB9 serial port, included PowerAlert monitoring software and complete cabling. Includes slot for SNMPWEBCARD and 2 individually controllable output load banks. Runtime is expandable with BP36V13 battery packs.
Voltage compatibility:	120V
Frequency compatibility:	50/60 Hz compatible
OUTPUT	
Output volt amp capacity (VA):	1000
Output watt capacity (watts):	800
Output nominal voltage:	120VAC
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 output receptacles
Customized load management receptacles:	2 individually controllable banks of 3 outlets 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 plug
Input cord length:	6 ft.
Recommended electrical service:	15A 120V
BATTERY	

Full load runtime:	6 min - internal batteries / 30 min with 1 BP36V13 battery pack (1000VA)
Half load runtime:	18 min - internal batteries / 70 min with 1 BP36V13 battery pack (500VA)
Expandable battery runtime:	3 built-in 12V 7AH batteries
DC system voltage:	36VDC
Typical battery lifespan:	3-6 years, depending on usage
Battery recharge rate:	4-6 hours to 90%

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 main power off/on switch, plus 1 test switch

SURGE / NOISE SUPPRESSION

AC surge suppression:	2440 joules
AC suppression response time:	Instantaneous
EMI / RFI AC noise suppression:	Yes

PHYSICAL

Shipping weight (lbs):	39.6
Shipping weight (kg):	18.0
Unit weight (lbs):	33
Unit weight (kg):	15.0
Unit Dimensions (HWD/in):	9.5 x 5.5 x 14.5
Unit Dimensions (HWD/cm):	24.2 x 14 x 36.8
Shipping Dimensions (HWD/in):	13 x 9.5 x 20
Shipping Dimensions (HWD/cm):	33 x 24.1 x 50.6
Material of construction:	Steel
Form factors supported:	Upright tower
Cooling method:	Fan

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
Line mode BTU/hr. (Max.):	442.8
Battery mode BTU/hr. (Max.):	442.8

COMMUNICATIONS

Network monitoring port:	Built-in DB9 port offers both enhanced RS-232 enable monitoring data, plus contact closure monitoring ability
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:	UL1778 (USA), cUL (Canada), FCC Class B (emissions), NOM (Mexico)

WARRANTY

Optional coverage:	3-5 year warranties, plus next day and on-site warranty coverage available for select opportunities. Contact Tripp Lite for additional information.
Product warranty:	2 year product warranty
Connected equipment insurance (USA and Canada Only):	$250,000 connected equipment insurance (USA and Canada only)

SPECIAL FEATURES

EPO port:	Supports EPO (emergency power off) via 73-0901 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):	BP36V13

The policy of Tripp Lite is one of continuous improvement.
Specifications are subject to change without notice.
Therefore, your product may vary slightly from what is currently listed.

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