Model #: SU1500XL

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

Highlights

- 1500VA/1200W on-line expandable tower UPS system
- Zero transfer time, on-line, double-conversion and economy-mode operation supported
- HID-compliant USB port, serial port and SNMP/web card slot
- Maintains 120V +/-2% output during overvoltages to 150V and brownouts as low as 65V
- 6 AC outlets arranged in 2 load banks
- Fault tolerant auto-bypass
- $250,000 Ultimate Lifetime Insurance (USA & Canada only)

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. Large-capacity 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 internal SNMP/web card, 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. Includes Tripp Lite's PowerAlert UPS Power Management Software. Compatible with Tripp Lite's Watchdog Service Monitoring/Rebooting Software. Attractive all-black upright tower format. 2-year warranty; $250,000 Ultimate Ultimate Lifetime Insurance

Package Includes

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

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
- 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 BP48V24-2U (limit 1) or BP48V60RT3U (multi-pack compatible) external battery packs
- 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
- 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
- Built-in RJ-11 EPO (Emergency Power Off) jack allows connection to site emergency power off systems
- $250,000 Ultimate Lifetime Insurance coverage for connected equipment (USA & Canada only)
- 2-year warranty

Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	1500
Output kVA capacity (kVA)	1.5
Output Watt Capacity (watts)	1200
Output kW capacity	1.2
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 three-outlet 5-15R load banks

Basic PDU options	PDU1215 (1U / 13 5-15R outlets); PDUNV (1U / 2 C19, 12 C13 outlets); PDU1415 (0U / 14 5-15R outlets); PDUV15 (0U / 12 5-15R outlets)
Metered PDU options	PDUMH15 (1U / 13 5-15R outlets); PDUMH15AT (1U / 8 5-15R outlets)*; PDUMV15 (0U / 16 5-15R outlets)
Switched PDU options	PDUMH15ATNET (1U / 8 5-15R outlets)*; PDUMV15NET (0U / 16 5-15R outlets)
External PDU redundancy options	*ATS switch options PDUMH15AT & PDUMH15ATNET support dual UPS and hot-swappable UPS configurations
Output AC waveform (AC mode)	Sine wave
Output AC waveform (battery mode)	Sine wave

INPUT

Rated input current (at 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 breaker	20A
UPS Input cord length (ft.)	10
UPS Input cord length (m)	3
Recommended Electrical Service	15A 120V

BATTERY

Full load runtime (minutes)	4.5 min. (1200w)
Half load runtime (minutes)	14 min. (600w)
Expandable battery runtime	Extended runtime supported via optional external battery packs
External battery pack compatibility	BP48V24-2U (limit 1); BP48V60RT3U (multi-pack compatible)
DC system voltage (VDC)	48
Battery recharge rate (included batteries)	Less than 6 hours from 10% to 90%
Replacement battery cartridge (internal UPS battery replacement)	RBC48-SUTWR
Battery Access	Battery access door
Battery replacement description	Hot-swappable, user replaceable batteries

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)

LEDS ALARMS & SWITCHES

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	Power-fail alarm can be silenced using alarm-cancel switch
Switches	2 Switches control off/on power status and alarm-cancel/self-test operation

SURGE / NOISE SUPPRESSION

UPS AC suppression joule rating	570
UPS AC suppression response time	Instantaneous
UPS Dataline suppression	1 line TEL / DSL or 10Base T Ethernet protection
EMI / RFI AC noise suppression	Yes

PHYSICAL

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)	10.2 x 9 x 19.5
UPS / Power Module dimensions in primary form factor (height x width x depth / cm)	26 x 22.9 x 49.5
UPS / Power Module weight (lbs)	49.3
UPS / Power Module weight (kg)	22.4
UPS Shipping dimensions (height x width x depth / inches)	15.2 x 13 x 24
UPS Shipping dimensions (height x width x depth / cm)	38.7 x 33 x 61
Shipping weight (lbs)	56
Shipping weight (kg)	25.4
UPS housing material	Steel

Cooling method	Fans

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)	609.7
AC economy mode BTU / hr. (full load)	260.4
Battery mode BTU / hr. (full load)	609.7
AC economy mode efficiency rating (100% load)	94%
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 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

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 (
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 & high efficiency 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); Meets FCC Part 68 / Industrie Canada (telecommunications); ROHS (Reduction of Hazardous Substances)

WARRANTY

Product Warranty Period (U.S., Canada & Puerto Rico)	2 years
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	$250,000 connected equipment insurance

Related Items

Optional Products

Product Type	Related Model	Description	Qty.
SNMP Accessories	SNMPWEBCARD	For remote monitoring and control via SNMP, Web, or Telnet.	-
SNMP Accessories	ENVIROSENSE	Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.)	-
UPS Accessories	RELAYIOCARD	Programmable Relay I/O Card	-
UPS Accessories	MODBUSCARD	For remote monitoring and control via MODBUS protocol	-
Shutdown Cable Kits	AS400CABLE KIT	Power Management Tools - UPS Communication Cable Kit for System i / AS400 / iSeries Servers	-
External Battery Packs	BP48V24-2U	BP48V242U - External Battery Pack for UPS System	-
External Battery Packs	BP48V60RT-3U	External Battery Pack and Cable. 3U, Expandable, Blue 2-Point Connector	-
Extended Warranties	WEXT3-500-1500	3-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 1500VA or less	-
Extended Warranties	WEXT5-500-1500	5-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 1500VA or less	-
Power Distribution	PDUB15	Dual source Power Distribution Unit / PDU with Manual Transfer Switch enables Hot-swappable UPS Replacement in Critical Network Applications	-
Power Distribution	PDU1215	Basic PDU / Power Distribution Unit - Safe, reliable power distribution for critical networking equipment	-
Power Distribution	PDUV15	Safe, reliable power distribution for critical networking equipment	-
Power Distribution	PDUNV	Basic PDU / Power Distribution Unit - Safe, reliable power distribution for critical networking equipment	-
Power Distribution	PDUMH15	Metered PDU / Power Distribution Unit - Safe, reliable power distribution with digital current meter	-
Power Distribution	PDUMV15	Metered PDU / Power Distribution Unit - Safe, reliable power distribution with digital current meter	-
Power Distribution	PDUMH15AT	Metered PDU with ATS - Power Distribution Unit with dual-input Auto Transfer Switching	-
Power Distribution	PDUMNH15	Monitored PDU / Power Distribution Unit supports real-time remote monitoring of load level, voltage and frequency with options for remote environmental and security monitoring	-
Power Distribution	PDUMNV15	Monitored PDU / Power Distribution Unit supports real-time remote monitoring of load level, voltage and frequency with options for remote environmental and security monitoring	-
Power Distribution	PDUMH15ATNET	Switched, Metered PDU with ATS - Power Distribution Unit with dual-input Auto Transfer Switching, individual outlet control and remote network interface	-
Power Distribution	PDUMV15NET	Switched, Metered PDU with Remote Monitoring - 0U Vertical Rackmount Power Distribution Unit for Networks with Individually Switchable Outlets, Current Metering, Remote Monitoring and Control	-

Power Cables	P007-002	2-ft. Heavy-Duty 14AWG Power cord (IEC-320-C13 to NEMA 5-15P)	-
Power Cables	P007-006	6-ft. Heavy-Duty 14AWG Power cord (IEC-320-C13 to NEMA 5-15P)	-
Power Cables	P007-010	10-ft. Heavy-Duty 14AWG Power cord (IEC-320-C13 to NEMA 5-15P)	-
Power Cables	P010-012	12-ft. 18AWG Power cord (NEMA 5-15P to IEC-320-C13)	-
Power Cables	P022-001	1-ft. 18AWG Power Extension cord (NEMA 5-15R to NEMA 5-15P)	-
Power Cables	P023-001	1-ft. 14AWG Power Adapter cord (NEMA L5-15R to NEMA 5-15P)	-
Power Cables	P034-010	10-ft. 14AWG Heavy Duty Power cord (IEC-320-C19 to NEMA 5-15P)	-

More information, including related products, owner's manuals, and additional technical specifications, can be found online at

www.tripplite.com/en/products/model.cfm?txtModelID=3300.