



## Model #: SU2200XLA

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



#### Highlights

- 2200VA on-line, double-conversion, expandable runtime tower UPS system
- Simultaneous communications via HID-compliant USB port, serial port, and SNMP/web card slot
- Maintains 120V +/-2% output during overvoltages to 138V and brownouts as low as 65V
- NEMA 5-20P (120V 20A) input plug; 6 NEMA 5-15/20R and 1 L5-20R outlets; two individually controllable three-outlet load banks
- Fault-tolerant auto-bypass
- 2-year product warranty;

#### Description

Tripp Lite's Smart Online SU2200XLa 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 2200VA/1600W 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 7 UPS supported outlets. 2 three-outlet load banks can be independently controlled via 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 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 and Control Software.

#### Applications

Ideal for protection of critical 120V equipment in server rooms, internetworking closets and telecommunications systems in rackmount or tower applications. Common applications include corporate or departmental servers, workstations, hubs, routers, bridges, CAD/CAM workstations, concentrators, IP telephony and traditional PBX switching systems.

#### Package Includes

- SU2200XLa On-line Double-Conversion UPS System
- PowerAlert Software and cabling
- Instruction 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 80V and 138V (65V to 138V at loads under 70%), regulating output to 120V AC +/-2%  
 2200VA/1600W output capacity with 7 total outlets (6 NEMA5-15/20R and 1 L5-20R)  
 Two built-in individually switchable load banks, each with three 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, 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 and Control 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 product warranty

## Specifications

SYSTEM OVERVIEW	
<b>Voltage compatibility</b>	120V AC (110/120V)
<b>Frequency compatibility</b>	50/60 Hz compatible (auto-sensing)
OUTPUT	
<b>Output VA</b>	2200
<b>Output watts</b>	1600
<b>Output nominal voltage</b>	120V AC (110/120V)
<b>Output voltage regulation</b>	Maintains full-time sine wave output within 2% of selected nominal, less than 3% total harmonic distortion (linear load) / 5% total harmonic distortion (computer load) (Less than 5% THD on-line and on-battery)
<b>Output frequency regulation</b>	Regulates line frequency to 50/60Hz +/- 0.05Hz
<b>Outlet quantity / type</b>	6 x NEMA 5-15/20R, 1 x NEMA L5-20R
<b>Customized load management receptacles</b>	2 controllable load banks, each with 3 outlets, support load shedding and remote reboot on demand of locked network devices
<b>Overload protection</b>	30A input breaker
INPUT	
<b>Maximum input amps</b>	16A (120V) / 17.6 (110V)
<b>Input connection type</b>	NEMA 5-20P (user-installable NEMA 5-15P also included)
<b>Input cord length</b>	10ft / 3m
<b>Recommended Electrical Service</b>	120V 20A dedicated circuit
BATTERY	
<b>Full load runtime</b>	4.5 min. with internal batteries (1600W)
<b>Half load runtime</b>	14 min. with internal batteries (800W)

<b>Expandable battery runtime</b>	Runtime is expandable with BP48V24-2U (limit 1) or BP48V60RT3U (multi-pack compatible) external battery packs
<b>DC system voltage</b>	48VDC
<b>Typical battery lifespan</b>	3-6 years, depending on usage
<b>Battery recharge rate</b>	Less than 5 hours to 90%
<b>Replacement Battery Cartridge</b>	RBC48-SUTWR
<b>VOLTAGE REGULATION</b>	
<b>Voltage regulation description</b>	On-line, double-conversion power conditioning maintains output within 2% of 100/110/120 volts at all times
<b>Overvoltage correction</b>	Maintains output of selected nominal +/-2% during overvoltages to 138V AC
<b>Brownout correction</b>	Maintains output of selected nominal +/-2% during undervoltages to 65V AC (at loads greater than 70% undervoltage correction extends to 80V)
<b>LEDS ALARMS &amp; SWITCHES</b>	
<b>Front panel LEDs</b>	LED STATUS DISPLAY: line power (green), online (green), bypass (yellow), on battery (green), overload (red), battery low (yellow) - 4 LED LOAD / BATTERY LEVEL DISPLAY (100%, 75%, 50%, 25%). LED display panel easily rotates for better viewing in rackmount or tower configurations.
<b>Alarms</b>	Multi-function audible alarm with distinctive ring patterns offer notification of backup operation (2 sec. on / 0.5 sec. off), low battery warning (1.25 sec. on / 0.5 sec. off), overload (sounds continuously), UPS fault (4.2 sec. on / 1 sec. off), input voltage out of frequency (2.1 sec. on / 0.14 sec. off) and high input voltage (2.1 sec. on / 0.07 sec. off)
<b>Switches</b>	Includes power off/on switch to enable system turn on (press ON switch), UPS battery test (press ON switch during normal AC operation), buzzer silence (press ON switch during battery operation) and OFF (press OFF switch) - all switch functions require that the switch be pressed and held for longer than 2 sec. but less than 4 sec.
<b>SURGE / NOISE SUPPRESSION</b>	
<b>AC surge suppression</b>	570 joules
<b>AC suppression response time</b>	Instantaneous
<b>Dataline suppression</b>	Set of 8 wire RJ-style interface jacks provides surge suppression for network Ethernet or tel/DSL connection. Pins 1,2,3 and 6 offer Ethernet protection starting at 7.5V and the center two wires, pins 4 & 5, offer tel/DSL line suppression starting at 260V
<b>EMI / RFI AC noise suppression</b>	Yes
<b>PHYSICAL</b>	
<b>Shipping weight (lbs)</b>	59.5
<b>Shipping weight (kg)</b>	27
<b>Shipping Dimensions (HWD/in)</b>	15.25 x 13 x 24
<b>Shipping Dimensions (HWD/cm)</b>	38.7 x 33 x 61
<b>Unit weight (lbs)</b>	52.7
<b>Unit weight (kg)</b>	23.9
<b>Unit Dimensions (HWD/in)</b>	10.25 x 9 x 19.5
<b>Unit Dimensions (HWD/cm)</b>	26 x 22.9 x 49.5

<b>Material of construction</b>	Steel
<b>Form factors supported</b>	Tower
<b>Cooling method</b>	Built-in cooling fan
<b>Battery Access</b>	User-replaceable, hot-swap battery replacement supported via battery access panel
<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>Line mode BTU/hr. (Max.)</b>	816
<b>Battery mode BTU/hr. (Max.)</b>	889
<b>Audible Noise</b>	
<b>COMMUNICATIONS</b>	
<b>Network monitoring port</b>	USB port and DB9 serial port. DB9 port offers both enhanced RS-232 enabled monitoring data, plus contact closure monitoring ability. HID-compliant USB port enables integration with built-in power management and auto shutdown features of Windows and Mac OS
<b>Software and cabling included</b>	PowerAlert Software on CD-ROM and complete cabling
<b>SNMP compatibility</b>	Slot for optional SNMPWEBCARD accessory (part #: SNMPWEBCARD)
<b>WatchDog compatibility</b>	Compatible with Tripp Lite's Watchdog Service Monitoring and Control Software to restore operation to locked equipment through soft reboot of application/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>	Zeroonline 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 65V (80V at load levels over 70%). Below this 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 "Emergency Power Off" via set of dedicated built-in EPO jacks
<b>Cold Start</b>	Inverter can be cold started to enable temporary AC output during a power failure
<b>Appearance</b>	Attractive all-black color scheme
<b>BATTERY PACK ACCESSORY (optional)</b>	
<b>Battery Pack Accessory (optional)</b>	BP48V24-2U (limit 1) or BP48V60RT3U (multi-pack compatible)
<b>CERTIFICATIONS</b>	
<b>Certifications</b>	Tested to UL1778 (USA), CSA (Canada), NOM (Mexico), Class A (emissions), FCC Part 68/Industry Canada, RoHS compliant
<b>WARRANTY</b>	
<b>Product warranty</b>	2 years

<b>Optional coverage</b>	3-5 year warranties, plus next-day and on-site warranty coverage available for select opportunities

## Related Items

<b>Extended Warranties</b>		
WEXT3-2200-3000	3-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 2200-3000VA	Qty: [optional]
WEXT5-2200-3000	5-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 2200-3000VA or less	Qty: [optional]

<b>External Battery Packs</b>		
BP48V24-2U	BP48V242U - External Battery Pack for UPS System	Qty: [optional]
BP48V60RT-3U	External Battery Pack and Cable. 3U, Expandable, Blue 2-Point Connector	Qty: [optional]

<b>Power Distribution</b>		
PS7224-20T	Tripp Lite Power Strip - Multiple outlets wherever you need them	Qty: [optional]
PDU1220T	Basic PDU / Power Distribution Unit - Safe, reliable power distribution for critical networking equipment	Qty: [optional]
PDUMV20	Metered PDU / Power Distribution Unit - Safe, reliable power distribution with digital current meter	Qty: [optional]
PDUMH20ATNET	Switched, Metered PDU with ATS - Power Distribution Unit with dual-input Auto Transfer Switching, individual outlet control and SNMP network interface	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]