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Model #: SU2200RTXL2UA

SmartOnline 2.2kVA On-Line Double-Conversion UPS, 2U Rack/Tower, 110/120V NEMA outlets



Highlights

- 2200VA / 2.2kVA / 1600 watt on-line double-conversion 2U rack/tower UPS
- 110/120V +/-2% output at 50/60Hz, high efficiency economy mode option
- Expandable runtime, Hot-swap batteries; 19 in / 48.3cm installed depth
- USB, RS232 & EPO ports; support for SNMP/WEB card options
- Front panel status LEDs with detailed load and battery metering
- 2 independently switchable output load banks
- NEMA 5-20P input; L5-20R & 5-15/20R outlets

Description

2200VA on-line, double-conversion UPS system for critical server, network and telecommunications equipment. 2U rackmount form factor with an installed depth of only 19 inches. Expandable battery runtime with optional BP48V24-2U (limit 1) and BP48V60RT-3U (multi-pack compatible) external battery packs. Full-time sine wave 110 or 120V output with +/-2% voltage regulation. Online, double-conversion Uninterruptible Power Supply (UPS) actively converts raw incoming AC power to DC, then re-converts output back to completely regulated, filtered AC output. Operates continuously without using battery power during brownouts to 65V and overvoltages to 150V. Highly efficient operation in optional economy mode saves BTU heat output and energy costs. NEMA 5-20P input plug. NEMA 5-15/20R and NEMA L5-20R output receptacles. Network-grade AC surge and noise suppression. Zero transfer time between AC and battery operation. Network-grade AC surge and noise suppression. Zero transfer time between AC and battery operation. Network management interfaces support simultaneous communications via USB port, DB9 serial port and SNMPWEBCARD slot. 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. Supports simultaneous detailed monitoring of equipment load levels, self-test data and utility power conditions via all 3 network interfaces. Includes PowerAlert monitoring software and complete cabling. Emergency Power Off (EPO) interface. Integrated two-bank PDU switching supports load shedding and remote reboot of connected equipment. 3-stage metered current monitoring and battery charge status LEDs. LED display panel easily rotates for viewing in rackmount or tower configurations. Dataline surge suppression for dialup, DSL or network Ethernet connection. Utility power and voltage regulation LEDs. Audible alarm. Self-test. Fault-tolerant auto-bypass mode. 4-post rackmount accessories included; 2-9USTAND tower kit and 2POSTRMKITWM 2-post rack & wallmount accessories available. Field-replaceable, hot-swappable internal batteries and external battery packs. Attractive all-black color scheme. 2-year warranty and \$250,00@onnected equipment insurance; extended warranty and service contracts available.

Package Includes

- SU2200RTXL2Ua On-line Double-Conversion UPS System
- · PowerAlert Software and cabling
- Mounting hardware for 4 post rack enclosures
- Instruction manual

Features

- SmartOnline high performance UPS system is ideal for critical voice, data, medical and industrial network applications
- True on-line, double-conversion UPS provides perfectly regulated sine wave output within 2% of 110/120V (user selectable) under all usage

conditions

- Maintains continuous operation through blackouts, voltage fluctuations and surges with zero transfer time
- · Highly efficient operation in optional economy mode setting, saving BTU heat output and energy costs
- Removes harmonic distortion, fast electrical impulses, frequency variations and other hard to solve power problems not addressed by other UPS types
- Corrects line voltage conditions as low as 65V and as high as 150V back to selectable 110/120V (+/-2%) values
- Standard internal battery set offers 14 min. runtime at half load (800W) and 4.5 min. at full load (1600W)
- Automatic restart after power outages that drain batteries and shutdown UPS immediately provide AC power to equipment when power returns
- Extended runtime available with optional BP48V24-2U (limit 2 w/48VDCSPLITTER) or BP48V60RT3U (no limit) external battery packs
- Some external battery configurations require the use of Tripp Lite's External Battery Configuration Software (see manual)
- Compact rackmount form factor installs using only 2 rack spaces (2U) with a maximum installed depth of only 19 inches
- Ships with all mounting accessories for 4 post rackmount installation
- Optional 2POSTRMKITWM enables 2 post rackmount or wallmount installation
- Optional 2-9USTAND accessory enables small-footprint upright tower placement
- Fault tolerant electronic bypass maintains utility output during a variety of UPS fault conditions
- Network interfaces support simultaneous communications via built-in USB, DB9 serial / contact-closure and SNMPWEBCARD slot
- HID compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X
- Included PowerAlert UPS monitoring software supports safe unattended shutdown, monitoring and control via local connected servers, plus any number of additional servers over IP
- UPS interface supports on-battery, low-battery, power-restored, AC-voltage, DC-voltage, output current monitoring, battery charge current, battery capacity, AC line frequency, timed inverter shutoff, activate self-test, load bank output power control and remote reboot, UPS nominal voltage adjustment and UPS line to battery power voltage setpoints
- Built-in Emergency Power Off (EPO) interface with cable
- NEMA 5-20P input plug; NEMA 5-15/20R & NEMA L5-20R output receptacles
- Integrated 2 bank switched PDU enables remote outlet management for load shedding or remote reboot of individual load banks (each bank has 3 outlets)
- Front panel LEDs offer current monitoring and battery charge level information
- UPS ships fully assembled in full compliance with DOT regulations, no time consuming connection of internal batteries by user required
- Single line TEL/DSL or network ethernet line surge suppression
- 2 year manufacturer's product warranty, \$250,000 Ultimate Lifetime Insurance

Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	2200
Output kVA capacity (kVA)	2.2
Output Watt Capacity (watts)	1600
Output kW capacity	1.6
Output power factor	0.7
Crest Factor	3:1
Nominal Output Voltage(s) Supported	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 5-15/20R outlet(s); 1 L5-20R outlet(s)			
Built-in controllable switched load banks	Two switchable three-outlet 5-15/20R load banks			
Basic PDU options	PDUNV (1U / 2 C19, 12 C13 outlets); PDU1420T (0U / 14 5-15/20R outlets); PDU40TDUAL (0U / 40 5-15/20R outlets)			
Metered PDU options	PDUMH20 (1U / 13 5-15/20R outlets); PDUMH20AT (1U / 16 5-15/20R outlets)*; PDUMV20 (0U / 16 5-15/20R outlets); PDUMV40 (0U / 32 5-15/20R outlets)			
Switched PDU options	PDUMH20ATNET (1U / 16 5-15/20R outlets)*; PDUMV20NET (0U / 24 5-15/20R outlets)			
External PDU redundancy options	*ATS switch options PDUMH20AT & PDUMH20ATNET support dual UPS and hot-swappable UPS configurations			
Output AC waveform (AC mode)	Sine wave			
Output AC waveform (battery mode)	Pure Sine wave			
INPUT				
Rated input current (at maximum load)	16A			
Nominal Input Voltage(s) Supported	110V AC; 120V AC			
UPS input connection type	5-20P			
Input circuit breaker	30A			
UPS Input cord length (ft.)	10			
UPS Input cord length (m)	3			
UPS input cord length details (m)	Built-in			
Recommended Electrical Service	20A 120V			
BATTERY				
Full load runtime (minutes)	4.5 min. (1600w)			
Half load runtime (minutes)	14 min. (800w)			
Expandable battery runtime	Extended runtime supported via optional external battery packs			
External battery pack compatibility	BP48V24-2U (limit 1); BP48V60RT-3U (multi-pack compatible)			

Expandable runtime description	BP48V24-2U (limit 2 w/ 48VDCSPLITTER)			
DC system voltage (VDC)	48			
Battery recharge rate (included batteries)	Less than 6 hours from 10% to 80%			
Replacement battery cartridge (internal UPS battery replacement)	RBC94-2U			
Battery Access	Front panel battery access door			
Battery replacement description	Hot-swappable, user replaceable sealed, flame retardant, non-spillable batteries			
VOLTAGE REGULATIO	N .			
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 & SWIT	CHES			
LED Indicators	14 LEDs indicate line power, online mode, economy/bypass mode, on-battery, overload, battery low, replace battery and fault status information; 4-LED meter displays load and battery charge levels; LED panel rotates for viewing in rack/tower formats			
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 SUPPR	RESSION			
UPS AC suppression joule rating	570			
UPS AC suppression response time	Instantaneous			
UPS Dataline suppression	1 line TEL/DSL (1 in / 1 out); 10/100Base T Ethernet			
EMI / RFI AC noise suppression	Yes			
PHYSICAL				
Installation form factors supported with included accessories	4 post 19 inch rackmount (mounting rail kit included)			
Installation form factors supported with optional accessories	2 post rackmount (2POSTRMKITWM); Wallmount (2POSTRMKITWM); Tower (2-9USTAND)			
Primary form factor	Rackmount			

UPS / Power Module dimensions in primary form factor (height x width x depth / inches)	3.5 x 17.5 x 19
UPS / Power Module dimensions in primary form factor (height x width x depth / cm)	8.9 x 44.4 x 48.3
Installed whole system total rack space height (rack spaces)	2U
Secondary form factor	Tower (requires 2-9USTAND)
Installed whole system dimensions in secondary form factor (height x width x depth / inches)	17.5 x 3.5 x 19
UPS dimensions in secondary form factor (height x width x depth / cm)	44.4 x 8.9 x 48.3
UPS / Power Module weight (lbs)	47.4
UPS / Power Module weight (kg)	21.5
UPS Shipping dimensions (height x width x depth / inches)	9.8 x 20.2 x 24
UPS Shipping dimensions (height x width x depth / cm)	24.8 x 51.4 x 61
Shipping weight (lbs)	57.3
Shipping weight (kg)	26
UPS housing material	Steel
Cooling method	Fan
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)	812.9
AC economy mode BTU / hr. (full load)	347.2
Battery mode BTU / hr. (full load)	885.6

AC economy mode efficiency rating (100% load)	94%	
Audible Noise	< 45dB at 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 TRAN	SFER	
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)	
WARRANTY		
Product Warranty Period (U.S., Canada & Puerto Rico)	2-year limited warranty	
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$250,000 Ultimate Lifetime Insurance	

Related Items

Optional Products

Product Type	Related Model	Description	Qty.
Extended Warranties	WEXT3-2200-3000	3-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 2200-3000VA	1
Extended Warranties	WEXT5-2200-3000	5-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 2200-3000VA or less	1

External Battery Packs	BP48V24-2U	BP48V242U - External Battery Pack for UPS System	1
External Battery Packs	BP48V60RT-3U	External Battery Pack and Cable. 3U, Expandable, Blue 2-Point Connector	1
Power Cables	P007-006	6-ft. Heavy-Duty 14AWG Power cord (IEC-320-C13 to NEMA 5-15P)	1
Power Cables	P007-010	10-ft. Heavy-Duty 14AWG Power cord (IEC-320-C13 to NEMA 5-15P)	1
Power Cables	P044-06I	6-inch 12AWG Heavy Duty Power Adapter cord (NEMA-L5-20R to NEMA-5-20P)	1
Power Cables	P049-010	10-ft. 12AWG Heavy Duty Power cord (IEC-320-C19 to NEMA 5-20P)	1
Power Distribution	PDU1220	Basic PDU / Power Distribution Unit - Safe, reliable power distribution for critical networking equipment	1
Power Distribution	PDUB20	Dual source Power Distribution Unit / PDU with Manual Transfer Switch enables Hot-swappable UPS Replacement in Critical Network Applications	1
Power Distribution	PDUMH20	Metered PDU / Power Distribution Unit- Safe, reliable power distribution with digital current meter	1
Power Distribution	PDUMH20AT	Metered PDU with ATS - Power Distribution Unit with dual-input Auto Transfer Switching	1
Power Distribution	PDUMH20ATNET	Switched, Metered PDU with ATS - Power Distribution Unit with dual-input Auto Transfer Switching, individual outlet control and SNMP network interface	1
Power Distribution	PDUMNH20	Monitored PDU / Power Distribution Unit supports real-time remote monitoring of load level, voltage and frequency with options for remote environmental and security monitoring	1
Power Distribution	PDUMNV20	Monitored PDU / Power Distribution Unit supports real-time remote monitoring of load level, voltage and frequency with options for remote environmental and security monitoring	1
Power Distribution	PDUMV20	Metered PDU / Power Distribution Unit - Safe, reliable power distribution with digital current meter	1
Power Distribution	PDUMV20NET	Switched, Metered PDU with Remote Monitoring - 0U Vertical Rackmount Power Distribution Unit for Networks with Individually Switchable Outlets, Current Metering, Remote Monitoring and Control	1
Power Distribution	PDUNV	Basic PDU / Power Distribution Unit - Safe, reliable power distribution for critical networking equipment	1
Power Distribution	PDUV20	Safe, reliable power distribution for critical networking equipment	1
Rackmount/Wallmount Kits	2POSTRMKITWM	Enables 2-Post Rackmount or Wallmount Installation of Select Rackmount UPS Systems	1
Shutdown Cable Kits	AS400CABLE KIT	Power Management Tools - UPS Communication Cable Kit for System i / AS400 / iSeries Servers	1
SNMP Accessories	ENVIROSENSE	Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.)	1
SNMP Accessories	SNMPWEBCARD	For remote monitoring and control via SNMP, Web, or Telnet.	1
Tower Stands	2-9USTAND	Enables Tower Placement of Rackmount UPS Systems	1
UPS Accessories	MODBUSCARD	For remote monitoring and control via MODBUS protocol	1
UPS Accessories	RELAYIOCARD	Programmable Relay I/O Card	1

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=2950.

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