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## SmartOnline 120V 2.2kVA TAA-Compliant UPS – On-Line Double Conversion, 1.8kW, 2U, Network Card Option

MODEL NUMBER: SU2200RTXLCDTAA



2.2kVA UPS protects connected equipment against damage and downtime due to blackouts, brownouts, surges and line noise.

### Features

#### Protects Mission-Critical Rack-Mounted Equipment against Damage, Downtime and Data Loss

This 2200VA UPS system protects connected equipment against equipment damage, downtime and data loss due to power outages, voltage fluctuations and transient surges. Featuring a 1800W capacity, high 0.8 power factor, true on-line operation with pure sine wave output and zero transfer time to battery, the SU2200RTXLCDTAA provides the highest level of battery backup and AC power protection for critical server, network and telecom equipment.

#### Reliable, Expandable Battery Backup

UPS battery backup keeps connected equipment operational through short power failures, and provides time to save data and perform an orderly system shutdown in case of a prolonged blackout. The internal battery set provides 12 minutes of support at half load and four minutes at full load. During normal operation, incoming utility power keeps the battery fully charged so backup power will be available when needed. For mission-critical applications demanding continuous uptime, the fully scalable 2.2kVA UPS can provide expandable runtime with optional external battery packs, such as Tripp Lite's BP48V242UTAA (sold separately). A battery-independent restart ensures automatic UPS power-up after lengthy power outages, even with expired batteries.

#### ENERGY STAR Certification Helps the Environment and Your Cash Flow

Operating with a high 94% efficiency in optional economy mode, the ENERGY STAR-certified 2200VA UPS system can save BTU heat output and energy costs by meeting strict EPA guidelines.

#### 6 Outlets in Dual Switchable Load Banks for Remote Control

Six NEMA 5-15/20R outlets are divided into two switchable breakered load banks. Each numbered load bank may be individually powered on and off remotely to reset or reboot connected equipment. This UPS system also features one non-breakered NEMA L5-20R outlet.

#### Intuitive Front-Panel LCD Interface

Operating the UPS system and monitoring connected equipment is easy with this interactive LCD screen. It reports operating mode and nine selectable data screens, including load, voltage and battery information. It also gives you 16 screens worth of configuration and setup options.

### Highlights

- Zero transfer time between AC power and battery for uninterrupted operation
- 570 joules protect connected devices from damaging power surges and spikes
- Optional external batteries provide additional runtime for essential applications
- Interactive LCD screen delivers detailed status, preset and control options
- Complies with the Federal Trade Agreements Act (TAA) for GSA Schedule purchases

### Applications

- Delivering perfectly regulated sine wave output to mission-critical equipment
- Protecting connected components from dangerous surges, spikes and line noise
- Keeping equipment operational through short power failures
- Allowing time to save data and safely shut down components in case of a prolonged blackout

### Package Includes

- SU2200RTXLCDTAA SmartOnline 120V 2.2kVA TAA-Compliant UPS
- USB cable
- DB9 cable
- EPO cable



**Optional WEBCARDLX Network Interface Offers 24/7 Access**

An accessory slot accommodates the optional Java-free HTML5-based WEBCARDLX interface, which enables full remote access for site power and UPS status monitoring, configuration, control and email notifications via secure web browser, SNMP, telnet or SSH. It supports 10/100 Mbps auto-sensing for optimum communication with an Ethernet network. Automated alerts help prevent accidental overloads, power loss and downtime.

- Rack-mounting hardware
- Owner's manual

**Advanced Communications Ports**

USB and DB9 ports (cables are included) enable data-saving unattended shutdown when used with Tripp Lite's free downloadable PowerAlert® software. Capabilities include UPS and line power status messaging, timed inverter shutoff after unattended shutdown, and UPS output power control for delayed or immediate reboot of connected devices.

**Versatile Installation Options**

Hardware is included for mounting the 2.2kVA UPS system in 2U of space in an EIA-standard 19-inch 4-post rack. Use the optional 2POSTRMKITWM for 2-post rack mounting or wall mounting. Use the optional 2-9USTAND for mounting in an upright tower position.

**TAA-Compliant for GSA Schedule Purchases**

The SU2200RTXLCDTAA is compliant with the Federal Trade Agreements Act (TAA) for GSA Schedule purchases.

**2-Year Warranty, \$250K Ultimate Lifetime Insurance and Environmentally Responsible Design**

The SU2200RTXLCDTAA comes with a 2-year warranty and \$250,000 of Ultimate Lifetime Insurance for any connected components damaged by a power surge (U.S., Canada and Puerto Rico only). It's manufactured in compliance with strict RoHS specifications, reflecting Tripp Lite's commitment to environmental responsibility.

## Specifications

OVERVIEW	
UPC Code	037332230928
OUTPUT	
Output Volt Amp Capacity (VA)	2200
Output kVA Capacity (kVA)	2.20
Output Watt Capacity (Watts)	1800
Output kW Capacity (kW)	1.80
Output Capacity Details	ON LINE MODE: Maximum output capacity is reduced to 1620 watts at 115V nominal and 1440 watts at 100V nominal; FREQUENCY REGULATION / CONVERSION MODE: Maximum output ratings are reduced in frequency regulation / conversion mode (127/120V 1260 watts / 115V 1134 watts / 110V 1071 watts / 100V 1008 watts)  OVERLOAD CAPACITY: Supports inverter operation up to 105% load continuously, 125% load for 3 minutes; 150% load for 30 seconds and >150% load for 0.5 seconds before switching to BYPASS (when bypass input voltage and frequency are WITHIN bypass limits) or SHUTDOWN (when bypass input voltage or frequency are OUTSIDE bypass limits)
Power Factor	0.82
Crest Factor	3:1
Nominal Output Voltage(s) Supported	100V; 110V; 115V; 120V; 127V
Nominal Voltage Details	120V factory-default nominal voltage

Frequency Compatibility	50 / 60 Hz; Supports 50 to 60 Hz and 60 to 50 Hz conversion
Frequency Compatibility Details	ON LINE MODE: Output frequency is automatically configured to match nominal input frequency on startup; Output matches input frequency when +/-5Hz of nominal; Output is regulated to +/-0.05Hz when input frequency exceeds +/-5Hz of nominal. UPS switches to battery mode when input frequency is below 40Hz or above 70Hz. FREQUENCY REGULATION / CONVERSION MODE: Output is regulated to +/-0.05Hz of selected output frequency input is 40 to 70Hz; UPS switches to battery mode when input frequency is below 40Hz or above 70Hz. BATTERY MODE: Output is regulated to +/-0.05Hz.
Output Voltage Regulation (Line Mode)	+/- 2%
Output Voltage Regulation (Economy Line Mode)	+/- 10%
Output Voltage Regulation (Battery Mode)	+/- 3%
Output Receptacles	(6) 5-15/20R; (1) L5-20R
Load Management Receptacles	Two switchable three-outlet 5-15/20R load banks
Output AC Waveform (AC Mode)	Pure Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
<b>INPUT</b>	
Rated input current (Maximum Load)	16A
Nominal Input Voltage(s) Supported	100V AC; 110V AC; 115V AC; 120V AC; 127V AC
Nominal Input Voltage Description	120V factory default
UPS Input Connection Type	5-20P
Input Circuit Breakers	30A
UPS Input Cord Length (ft.)	10
UPS Input Cord Length (m)	3.1
Recommended Electrical Service	20A 120V
Input Phase	Single-Phase
<b>BATTERY</b>	
Full Load Runtime (min.)	4 min. (1800w)
Half Load Runtime (min.)	12 min. (900w)
Expandable Battery Runtime	Extended runtime supported via optional external battery packs
External Battery Pack Compatibility	&nbsp;<a class="productLink" href="//www.tripplite.com/TAA-Compliant-External-48V-2U-Rack-Tower-Battery-Pack-Enclosure-for-select-UPS-Systems-BP48V242UTAA-Compliant~BP48V242UTAA">BP48V242UTAA</a>&nbsp; (limit 1);&nbsp;<a class="productLink" href="//www.tripplite.com/TAA-Compliant-External-48V-3U-Battery-Pack-for-select-Tripp-Lite-UPS-systems-BP48V60RT3UTAA-Compliant~BP48V60RT3UTAA">BP48V60RT3UTAA</a>&nbsp; (multi-pack compatible)
Expandable Runtime Description	Some external battery configurations require the use of Tripp Lite's External Battery Configuration Software, see manual for details
DC System Voltage (VDC)	48
Battery Recharge Rate (Included Batteries)	Less than 3 hours recharge to 90% (typical, full load discharge)



Internal UPS Replacement Battery Cartridge	&nbsp;<a class="productLink" href="//www.tripplite.com/2U-UPS-Replacement-48VDC-Battery-Cartridge-1-set-4-select-Tripp-Lite-SmartPro-UPS~RBC94-2U">RBC94-2U</a>&nbsp;</td>
Battery Access	Front panel battery access
Battery Replacement Description	Hot-swappable, user replaceable batteries
Expandable Runtime	Yes
<b>VOLTAGE REGULATION</b>	
Voltage Regulation Description	Online, double-conversion power conditioning maintains 2% output voltage regulation during brownouts and overvoltages
Overvoltage Correction	Corrects overvoltages to 150V (0-100% load)
Undervoltage Correction	Corrects undervoltages to 100V at full load (90V at 100V nominal)
Severe Undervoltage Correction	Corrects brownouts to 70V (70% load) & 55V (33% load)
<b>USER INTERFACE, ALERTS &amp; CONTROLS</b>	
Front Panel LCD Display	Front panel LCD information and configuration screen offers detailed UPS and site power status and operating data, plus configuration of voltage, frequency, operating mode, alarm function and a variety of additional options
Switches	2 switches control off/on power status and alarm-cancel operation; 2 additional scroll-down and scroll-up / select options enable LCD status viewing and configuration options
Alarm Cancel Operation	Power-fail alarm can be temporarily silenced using alarm-cancel switch; silent mode alarm configuration option available
Audible Alarm	Audible alarm indicates UPS startup, power-failure, low-battery, overload, UPS fault and remote shutdown conditions
LED Indicators	7 front panel LEDs indicate line power availability, AC to DC conversion, battery mode operation, inverter mode, eco mode operation, bypass mode operation and AC output status
<b>SURGE / NOISE SUPPRESSION</b>	
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
<b>PHYSICAL</b>	
Included Mounting Accessory Description	Includes 4 post rackmount installation accessories
Installation Form Factors Supported with Optional Accessories	2 post rackmount (2POSTRMKITWM); Tower (2-9USTAND); Wallmount (2POSTRMKITWM)
Primary Form Factor	Rackmount
UPS Power Module Dimensions (hwd, in.)	3.50 x 17.50 x 19.00
UPS Power Module Dimensions (hwd, cm)	8.89 x 44.45 x 48.26
Rack Height (U Spaces)	2



Minimum Required Rack Depth without External Battery Pack (cm)	61
Minimum Required Rack Depth with External Battery Pack (cm)	66
Minimum Required Rack Depth without External Battery Pack (in.)	24
Minimum Required Rack Depth with External Battery Pack (in.)	26
UPS Power Module Weight (lbs.)	49
UPS Power Module Weight (kg)	22.23
Shipping Dimensions (hwd / in.)	9.10 x 23.20 x 19.30
Shipping Dimensions (hwd / cm)	23.11 x 58.93 x 49.02
Shipping Weight (lbs.)	62.30
Shipping Weight (kg)	28.26
Cooling Method	Fan
UPS Housing Material	Steel
Primary UPS Height (mm)	89
Primary UPS Width (mm)	445
Primary UPS Depth (mm)	483
<b>ENVIRONMENTAL</b>	
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)	684
AC Economy Mode BTU / Hr. (Full Load)	392
Battery Mode BTU / Hr. (Full Load)	1085
AC Economy Mode Efficiency Rating (100% Load)	94%
Operating Elevation (ft.)	0-3000m / 0-10,000 ft.
Audible Noise	57 dBA at 1m front side
Operating Elevation (m)	0-3000 m
<b>COMMUNICATIONS</b>	
Communications Interface	USB (HID enabled); DB9 Serial; Contact closure; EPO (emergency power off); Slot for SNMP/Web interface
Network Management Cards	SNMPWEBCARD; TLNETCARD; WEBCARDLX; MODBUSCARD;&nbsp;&nbsp;&nbsp;<a class="productLink" href="//www.tripplite.com/Programmable-Relay-I-O-Card~RELAYIOCARD">RELAYIOCARD</a>&nbsp;&nbsp;&nbsp;
Network Monitoring Port Description	Supports detailed monitoring of UPS and site power conditions; DB9 port supports RS232 and contact closure communications



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PowerAlert Software	For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at <a href="http://www.tripplite.com/poweralert">http://www.tripplite.com/poweralert</a>
Communications Cable	USB and DB9 cabling included
WatchDog Compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
<b>LINE / BATTERY TRANSFER</b>	
Transfer Time	Zero (0 milliseconds) in double-conversion mode; 4 milliseconds economy mode
Low Voltage Transfer to Battery Power (Setpoint)	100V at full load (90V full load at 100V nominal setting); 70V at 70% load; 55V at 33% load
High Voltage Transfer to Battery Power (Setpoint)	150
<b>SPECIAL FEATURES</b>	
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 Energy-Saving Features	High efficiency economy mode operation; Individually controllable load banks; Schedulable daily hours of economy mode operation
<b>CERTIFICATIONS</b>	
UPS Certifications	ENERGY STAR Qualified; Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances); TAA Compliant; Tested to CSA (Canada); Tested to UL1778 (USA)
<b>WARRANTY</b>	
Product Warranty Period (Worldwide)	2-year limited warranty
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$250,000 &nbsp;<a class="insuranceLink" href="//www.tripplite.com/support/insurance-policy">Ultimate Lifetime Insurance</a> &nbsp;

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