

## SmartOnline 120V 1.5kVA TAA-Compliant UPS – On-Line Double Conversion, 1.35kW, 2U, Network Card Option

MODEL NUMBER: SU1500RTXLCDTAA



1.5kVA 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 1500VA UPS system protects connected equipment against equipment damage, downtime and data loss due to power outages, voltage fluctuations and transient surges. Featuring a 1350W capacity, high 0.9 power factor, true on-line operation with pure sine wave output and zero transfer time to battery, the SU1500RTXLCDTAA 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 14 minutes of support at half load and 4.2 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 1.5kVA 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..

**6 Outlets in Dual Switchable Load Banks for Remote Control** Six NEMA 5-15R outlets are divided into two switchable breaker load banks. Each numbered load bank may be individually powered on and off remotely to reset or reboot connected equipment.

**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.

**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.

### 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
- To use the Auto Probe feature, this product requires a WEBCARDLX network interface (sold separately) running LX firmware update 15.5.2 or later

### 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

- SU1500RTXLCDTAA SmartOnline 120V 1.5kVA TAA-Compliant UPS
- USB cable
- DB9 cable
- EPO cable
- 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 1.5kVA 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 SU1500RTXLCDTAA 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 SU1500RTXLCDTAA 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	037332231017
UPS Type	On-Line
INPUT	
Input Phase	Single-Phase
Rated input current (Maximum Load)	12A
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	5-15P
Input Circuit Breakers	20A
UPS Input Cord Length (ft.)	10
UPS Input Cord Length (m)	3.1
Recommended Electrical Service	15A 120V
OUTPUT	
Output Capacity (VA)	1500
Output Capacity (kVA)	1.50
Output Capacity (Watts)	1350
Output Capacity (kW)	1.35

Output Capacity Details	ON LINE MODE: Maximum output capacity ratings is reduced to 1215 watts at 115V nominal and 1080 watts at 100V nominal; FREQUENCY REGULATION / CONVERSION MODE: Maximum output ratings are reduced in frequency regulation / conversion mode (127/120V 945 watts / 115V 850 watts / 110V 804 watts / 100V 756 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	0.9
Crest Factor	3:1
Nominal Voltage Details	120V factory-default nominal voltage; Less than 3% THD for linear loads and less than 5% for non-linear computer loads
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%
Load Management Receptacles	Two switchable three-outlet 5-15R load banks
Output AC Waveform (AC Mode)	Pure Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
Nominal Output Voltage(s) Supported	100V; 110V; 115V; 120V; 127V
Output Receptacles	(6) 5-15R
Individually Controllable Load Banks	Yes
<b>BATTERY</b>	
Battery Type	Valve Regulated Lead Acid (VRLA)
Runtime Full Load (min.)	4.2 min. (1350w)
Runtime Half Load (min.)	14 min. (675W)
Expandable Runtime	Yes
Expandable Runtime Description	Some external battery configurations require the use of Tripp Lite's External Battery Configuration Software, see manual for details
External Battery Pack Compatibility	BP48V242UTAA (limit 1); <a href="//tripplite.eaton.com/TAA-Compliant-External-48V-3U-Battery-Pack-for-select-Tripp-Lite-UPS-systems-BP48V60RT3UTAA">BP48V60RT3UTAA</a> (multi-pack compatible)
DC System Voltage (VDC)	48
Battery Recharge Rate (Included Batteries)	Less than 3 hours recharge to 90%



Installation Form Factors Supported with Optional Accessories	2 post rackmount ( <a href="http://tripplite.eaton.com/2-Post-Rack-Mount-Wall-Mount-Adapter-Kit-select-Rack-Mount-UPS-Systems~2POSTRMKITWM">2-Post-Rack-Mount-Wall-Mount-Adapter-Kit-select-Rack-Mount-UPS-Systems~2POSTRMKITWM</a> ); 2-4 post front rail rackmount ( <a href="http://tripplite.eaton.com/Heavy-Duty-2-post-Front-Mounting-Ear-Kit-UPSHDEARKIT">UPSHDEARKIT</a> ); 4 post rackmount short-depth ( <a href="http://tripplite.eaton.com/4-Post-1U-Universal-Adjustable-Rack-Mount-Shelf-Kit-for-Wall-Mount-Racks~4POSTRAILKITWM">4-Post-1U-Universal-Adjustable-Rack-Mount-Shelf-Kit-for-Wall-Mount-Racks~4POSTRAILKITWM</a> ); Tower ( <a href="http://tripplite.eaton.com/2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND">2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND</a> ); Wallmount ( <a href="http://tripplite.eaton.com/2-Post-Rack-Mount-Wall-Mount-Adapter-Kit-select-Rack-Mount-UPS-Systems~2POSTRMKITWM">2-Post-Rack-Mount-Wall-Mount-Adapter-Kit-select-Rack-Mount-UPS-Systems~2POSTRMKITWM</a> );
Minimum Required Rack Depth with External Battery Pack (cm)	65
Minimum Required Rack Depth with External Battery Pack (in.)	25.5
Minimum Required Rack Depth without External Battery Pack (cm)	55
Minimum Required Rack Depth without External Battery Pack (in.)	21.5
Optional Mounting Accessory Notes	Optional <a href="http://tripplite.eaton.com/2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND">2U-9U-Tower-Stand-Kit-select-Rack-Mount-UPS-Systems~2-9USTAND</a> ; enables upright tower UPS placement; <a href="http://tripplite.eaton.com/2-Post-Rack-Mount-Wall-Mount-Adapter-Kit-select-Rack-Mount-UPS-Systems~2POSTRMKITWM">2-Post-Rack-Mount-Wall-Mount-Adapter-Kit-select-Rack-Mount-UPS-Systems~2POSTRMKITWM</a> ; enables wall-mount and 2-post rackmount installation; <a href="http://tripplite.eaton.com/4-Post-1U-Universal-Adjustable-Rack-Mount-Shelf-Kit-for-Wall-Mount-Racks~4POSTRAILKITWM">4-Post-1U-Universal-Adjustable-Rack-Mount-Shelf-Kit-for-Wall-Mount-Racks~4POSTRAILKITWM</a> ; enables installation in 4-post short-depth racks from 14.5 to 23.5 inches (368 to 597mm); <a href="http://tripplite.eaton.com/Heavy-Duty-2-post-Front-Mounting-Ear-Kit-UPSHDEARKIT">UPSHDEARKIT</a> ; enables installation in 2 or 4-post racks using front vertical rails only, without rear support
Primary UPS Depth (mm)	470
Primary UPS Height (mm)	89
Primary UPS Width (mm)	445
Shipping Dimensions (hwd / in.)	9.20 x 23.30 x 19.20
Shipping Dimensions (hwd / cm)	23.37 x 59.18 x 48.77
Shipping Weight (lbs.)	58.00
Shipping Weight (kg)	26.31
UPS Housing Material	Steel
UPS Power Module Dimensions (hwd, cm)	8.89 x 44.45 x 46.99
UPS Power Module Dimensions (hwd, in.)	3.50 x 17.50 x 18.50
UPS Power Module Weight (kg)	20.41
UPS Power Module Weight (lbs.)	45
<b>ENVIRONMENTAL</b>	
Operating Temperature Range	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius
Storage Temperature Range	+5 to +122 degrees Fahrenheit / -20 to +40 degrees Celsius with batteries; -13 to +131 Fahrenheit / -25 to +55 degrees Celsius without batteries
Relative Humidity	0 to 95%, non-condensing
AC Mode BTU / Hr. (Full Load)	455
AC Economy Mode BTU / Hr. (Full Load)	294

Battery Mode BTU / Hr. (Full Load)	559
AC Economy Mode Efficiency Rating (100% Load)	94%
Audible Noise	45 dBA at 1m front side
Operating Elevation (m)	Up to 3000m
<b>COMMUNICATIONS</b>	
Network Management Cards	SNMPWEBCARD; <a href="https://tripplite.eaton.com/Web-Management-Accessory-Card-SmartPro-SmartOnline-UPS-Systems-TLNETCARD">TLNETCARD</a> ; <a href="https://tripplite.eaton.com/Web-Management-Accessory-Card-WEBCARDLX">WEBCARDLX</a> ; <a href="https://tripplite.eaton.com/MODBUS-Management-Accessory-Card-UPS-Remote-Monitoring-Control-MODBUSCARD">MODBUSCARD</a> ; <a href="https://tripplite.eaton.com/Programmable-Relay-I-O-Card-RELAYIOCARD">RELAYIOCARD</a>
Network Monitoring Port Description	Supports detailed monitoring of UPS and site power conditions; DB9 port supports RS232 and contact closure communications
PowerAlert Software	For local monitoring via the UPS's built-in communication ports, download PowerAlert software at <a href="https://tripplite.eaton.com/products/power-alert">https://tripplite.eaton.com/products/power-alert</a>
Communications Cable	USB and DB9 cabling included
WatchDog Compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
Network Management Card Description	Network management card optional
Communications Interface	Contact closure; DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface; USB (HID enabled)
<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)	150V
<b>FEATURES &amp; SPECIFICATIONS</b>	
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Auto Probe Monitoring and Reboot (requires WEBCARDLX); Automatic inverter bypass; Expandable battery backup; Hot swappable batteries; On-Line/Double-Conversion; Remote management; Sine wave output; Surge/noise protection; Zero transfer time
Green Energy-Saving Features	High efficiency economy mode operation; Individually controllable load banks; Schedulable daily hours of economy mode operation
<b>APPLICATIONS</b>	
UPS Applications	Mission Critical Applications
<b>WARRANTY &amp; SUPPORT</b>	
Product Warranty Period (Worldwide)	2-year limited warranty



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Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$250,000 <a class="insuranceLink" href="//tripplite.eaton.com/support/insurance-policy">Ultimate Lifetime Insurance</a>
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