

## SmartOnline 120V 1.5kVA 1.35kW Double-Conversion UPS, 2U Rack/Tower, Extended Run, Preinstalled Network Management Card, LCD, USB, DB9

MODEL NUMBER: **SU1500RTXLCDN**



### Description

The SU1500RTXLCDN SmartOnline® 120V 1.5kVA 1.35kW On-Line Double-Conversion UPS provides battery backup and AC power protection against blackouts, brownouts, power surges and line noise that can damage electronics or destroy data. It converts AC input to DC power, and then converts DC to fully regulated sine wave AC output with +/-2% voltage regulation in online and battery modes.

Featuring six NEMA 5-15R outlets in two switchable numbered load banks, as well as a NEMA 5-15P input, the SU1500RTXLCDN has an internal battery that provides 14 minutes of support at half load and 4.2 minutes at full load. Adding external battery packs, such as [BP48V24-2U](#) (sold separately), provides extended runtime.

The pre-installed Network Management Card accessory card permits remote management, including reboots, configuration, updates and activity logs. An interactive front-panel LCD interface displays operating conditions and diagnostic data, such as load, voltage and battery levels. You can set operating modes to reflect your protection priorities, including an optional economy mode that saves heat output and energy costs.

EMI/RFI noise filtering improves your equipment's performance and prevents damage. A 570-joule surge suppression rating protects your equipment from harmful power surges. With Tripp Lite's free downloadable PowerAlert® software, the SU1500RTXLCDN enables safe unattended system shutdown and file saves in case of a prolonged power failure. An audible alarm indicates startup/shutdown, power failure, low battery, overload and fault conditions.

### Features

#### Protects Mission-Critical Rack-Mounted Equipment

- Provides fully regulated sine wave AC output for servers, network storage devices and telecom hardware
- +/-2% voltage regulation in online and battery modes
- Selectable 100/110/120/127V output voltage
- 6 NEMA 5-15R outlets

### Highlights

- Zero transfer time suitable for advanced network applications
- 2% output voltage regulation in online and battery modes
- Expandable runtime with optional external battery packs
- Preinstalled Network Management Card
- 14 min. runtime at half load; 4.2 min. at full load

### Package Includes

- SU1500RTXLCDN SmartOnline 120V 1.5kVA 1.35kW On-Line Double-Conversion UPS with pre-installed Network Management Card
- USB cable
- DB9 cable
- EPO cable
- Mounting hardware
- Owner's manual



- 10 ft. power cord with NEMA 5-15P input
- 570-joule surge suppression rating

#### Reliable Battery Backup with Expandable Runtime

- Supports half load for 14 min. and full load for 4.2 min.
- Zero transfer time suitable for advanced network applications
- Expandable runtime with optional external battery packs, such as Tripp Lite's [BP48V24-2U](#)
- Restarts automatically after lengthy power outages

#### Included Network Management Card

- Pre-installed Network Management Card permits remote management of UPS

#### Switchable Numbered Load Banks

- Outlets are divided into 2 numbered load banks, each of which may be individually powered on and off remotely to reset or reboot connected equipment

#### Interactive LCD Screen

- Reports detailed status information, including load, voltage and battery levels
- Offers advanced configuration and setup options, including output voltage and operating mode

#### EMI/RFI Line Noise Filtering

- Removes electromagnetic and radio frequency interference that can disrupt or damage equipment's performance

#### Audible Alarm

- Indicates startup/shutdown, power failure, low battery, overload and fault conditions

#### Communications Ports

- USB & Serial ports enable data-saving unattended shutdown when used with Tripp Lite's PowerAlert software, available via FREE download from [www.tripplite.com/poweralert](http://www.tripplite.com/poweralert)
- EPO port supports emergency shutdown in large facilities

#### Versatile Installation Options

- Hardware included for 4-post mounting in 2U of EIA-standard 19 in. rack
- Mounts on wall or 2-post rack with optional [2POSTRMKITWM](#)
- Mounts in upright tower position with optional [2-9USTAND](#)

## Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	1500
Output kVA Capacity (kVA)	1.5
Output Watt Capacity (Watts)	1350
Output kW 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 Output Voltage(s) Supported	100V; 110V; 115V; 120V; 127V
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%
Output Receptacles	(6) 5-15R
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
<b>INPUT</b>	
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)	3.0
Recommended Electrical Service	15A 120V
Input Phase	Single-Phase
<b>BATTERY</b>	



Full Load Runtime (min.)	4.2 min. (1350w)
Half Load Runtime (min.)	14 min. (675w)
Expandable Battery Runtime	Extended runtime supported via optional external battery packs
External Battery Pack Compatibility	BP48V24-2U (limit 1); BP48V60RT-3U (multi-pack compatible); BP48V27-2US (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%; Add 6 hours per BP48V27-2US (typical, full load discharge)
Internal UPS Replacement Battery Cartridge	RBC94-2U
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); Wallmount(2POSTRMKITWM); Tower(2-9USTAND)
Primary Form Factor	Rackmount
UPS Power Module Dimensions (hwd, in.)	3.5 x 17.5 x 18.5
UPS Power Module Dimensions (hwd, cm)	8.89 x 44.45 x 46.99
Rack Height (U Spaces)	2
Minimum Required Rack Depth (inches)	25.5
Minimum Required Rack Depth (cm)	64.77
UPS Power Module Weight (lbs.)	45.2
UPS Power Module Weight (kg)	20.50
UPS Shipping Dimensions (hwd / in.)	9.5 x 20 x 24
UPS Shipping Dimensions (hwd / cm)	24.13 x 50.80 x 60.96
Shipping Weight (lbs.)	57.8
Shipping Weight (kg)	26.2
Cooling Method	Fan
UPS Housing Material	Steel
Minimum Required Rack Depth (mm)	648
Primary UPS Height (mm)	89
Primary UPS Width (mm)	444
Primary UPS Depth (mm)	470
Shipping Height (mm)	241
Shipping Width (mm)	508
Shipping Depth (mm)	610
<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%
Operating Elevation (ft.)	0-3000m / 0-10,000 ft.
Audible Noise	45 dBA at 1m front side
Operating Elevation (msnm)	0 - 3000 m
<b>COMMUNICATIONS</b>	
Communications Interface	Contact closure; DB9 Serial; EPO (emergency power off); Pre-installed network card; Slot for SNMP/Web interface; USB (HID enabled)
Network Monitoring Port Description	Pre-installed WEBCARDLX Network Management Card interface included
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	Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances); 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 <a href="#">Ultimate Lifetime Insurance</a>

© 2017 Tripp Lite. All rights reserved. All product and company names are trademarks or registered trademarks of their respective holders. Use of them does not imply any affiliation with or endorsement by them. Tripp Lite has a policy of continuous improvement. Specifications are subject to change without notice.

Tripp Lite uses primary and third-party agencies to test its products for compliance with standards. See a list of Tripp Lite's testing agencies:

<https://www.tripplite.com/products/product-certification-agencies>



**Tripp Lite**  
1111 W. 35th Street  
Chicago, IL 60609 USA  
Telephone: 773.869.1234  
[www.tripplite.com](http://www.tripplite.com)