

SmartOnline 120V 1500VA 1.35kW Double-Conversion UPS - 6 Outlets, Extended Run, Card Slot, LCD, USB, DB9, 2U

MODEL NUMBER: SU1500RTXLCD2U











On-line double-conversion UPS provides pure sine wave AC output to server and network equipment in data centers and computer rooms.

Features

Double-Conversion UPS Protects Equipment against Damage, Downtime and Data Loss
This 100/110/120/127V 50/60 Hz UPS system with IGBT technology maintains perfect output by
converting AC input to DC, then reconverting UPS output to fully regulated sine wave AC with +/-2%
voltage regulation in online and battery modes. Featuring a 1350W capacity, high 0.9 power factor, 570
joules of surge suppression, true on-line operation with pure sine wave output and zero transfer to battery
mode in on-line double-conversion mode, the SmartOnline® SU1500RTXLCD2U double-conversion UPS
provides the highest level of AC power protection and battery backup for critical network closet, computer
room and data center equipment.

Individually Controllable Load Banks Let You Access and Control Outlets Remotely
Six NEMA 5-15R outlets are split evenly into two switchable three-outlet load banks, allowing you to reboot select components or shed loads remotely.

Reliable, Expandable Battery Backup Keeps You Operational Through Power Outages

The field-replaceable, hot-swappable internal battery provides 14 minutes of support at half load (675W) and 4.2 minutes at full load (1350W), keeping protected equipment operational through power failures. For mission-critical applications demanding scalable extended runtime, the UPS supports external battery packs, such as BP48V24-2U (sold separately). The intelligent battery management system with temperature-compensated charging extends battery life.

ENERGY STAR-Certified Economy Mode Helps You Save Money and Protect the EnvironmentBy meeting strict EPA efficiency guidelines, this ENERGY STAR-certified UPS system helps you save money and energy. A power-saving Economy mode setting option offers enhanced efficiency and reduced BTU output when utility power is already high quality.

Automatically Turns Back On After Power Is Restored

Battery-independent restart ensures automatic UPS power-up without user interaction after lengthy power outages, even when batteries are expired and require replacement.

Intuitive Front-Panel Interface for Convenient UPS Operation and Monitoring

Highlights

- Offers network-grade protection against power failures and voltage fluctuations
- Zero transfer time between online and battery modes for uninterrupted operation
- Optional external battery packs provide additional runtime for applications requiring it
- Optional WEBCARDLX network interface required to use Auto Probe feature
- ENERGY STAR-certified to save electricity, lower costs, and protect the environment

Applications

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

Package Includes

- SU1500RTXLCD2U SmartOnline Double-Conversion UPS
- USB cable
- RS-232 cable
- EPO cable
- 4-post rack-mounting hardware
- Owner's manual



The front-panel LCD features nine selectable screens of UPS data (including load, voltage and battery data) and 16 screens of configuration and setup options. LEDs indicate line power availability, AC to DC conversion, battery mode operation, inverter mode, ECO mode operation, bypass mode operation and AC output status.

Advanced Communications Ports Allow for Automatic Saves and Shutdowns

RS-232 and HID-compliant USB ports connect to a computer running free downloadable PowerAlert® software to enable safe unattended file saves and system shutdown in case of a prolonged power failure. An EPO port connects the UPS to a contact closure switch to enable emergency inverter shutdown. Cables are included.

Optional WEBCARDLX Network Interface Offers 24/7 Access

The SU1500RTXLCD2U includes a slot for an optional Java-free HTML5-based WEBCARDLX (sold separately) that 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. WEBCARDLX 15.5.2 or later is required to use the Auto Probe feature, which can prevent costly service calls by automatically rebooting non-responsive network devices.

Versatile Installation Options

Hardware is included for mounting the UPS system in 2U of space in an EIA-standard 19-inch 4-post rack. Use the optional 2POSTRMKITWM (sold separately) for 2-post rack mounting or the optional 2-9USTAND (sold separately) for mounting in an upright tower position. The 10-ft. (3.05 m) power cord with NEMA 5-20P plug connects to any compatible AC outlet.

Specifications

OVERVIEW		
UPC Code	037332168610	
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	
ОИТРИТ		
Output Capacity (VA)	1500	
Output Capacity (kVA)	1.5	



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
BATTERY	
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	BP48V24-2U (limit 1); BP48V60RT-3U"<bp48v60rt-3u">BP48V60RT-3U"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v6< td=""></bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v60rt-3u"<bp48v6<></bp48v60rt-3u">



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)	
Battery Access	Front panel battery access	
Internal UPS Replacement Battery Cartridge	RBC94-2U	
Battery Replacement Description	Hot-swappable, user replaceable batteries	
VOLTAGE REGULATION		
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)	
USER INTERFACE, ALERTS & CONTROLS		
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	
SURGE / NOISE SUPPRESSION		
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		
Primary Form Factor	Rackmount	
Rack Height	2U	
Cooling Method	Fan	
Included Mounting Accessory Description	Included 4POSTRAILKIT mounting bracket enables installation in 4 post racks from 20.5 to 36 inches (521 to 914mm)	
Installation Form Factors Supported with Included Accessories	4 post 19 inch rackmount	



Installation Form Factors Supported with Optional Accessories	2 post rackmount (2POSTRMKITWM); Wallmount (2POSTRMKITWM); Tower (2-9USTAND)
Minimum Required Rack Depth (cm)	55.88
Minimum Required Rack Depth (inches)	22
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 2-9USTAND > enables upright tower UPS placement; 2POSTRMKITWM > enables wall-mount and 2-post rackmount installation; 4POSTRAILKITWM > enables installation in 4-post short-depth racks from 14.5 to 23.5 inches (368 to 597mm); UPSHDEARKIT 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.)	56.50
Shipping Weight (kg)	25.63
UPS Housing Material	Steel
UPS Power Module Dimensions (hwd, cm)	8.89 x 44.45 x 46.99
UPS Power Module Dimensions (hwd, in.)	3.5 x 17.5 x 18.5
UPS Power Module Weight (kg)	20.50
UPS Power Module Weight (lbs.)	45.2
Unit Dimensions (hwd / in.)	3.500 x 17.500 x 18.500
Unit Weight (lbs.)	45.200
Unit Weight (kg)	20.50
ENVIRONMENTAL	
Operating Temperature Range	32° to 104°F (0° to 40°C)



Storage Temperature Range	5° to 122°F (-20° to 40°C) with batteries; -13° to 131°F (-25° to 55°C) 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
COMMUNICATIONS	
Network Management Cards	SNMPWEBCARD; TLNETCARD ; WEBCARDLX ; MODBUSCARD ; RELAYIOCARD
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 https://tripplite.eaton.com/products/power-alert
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)
LINE / BATTERY TRANSFER	
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
FEATURES & SPECIFICATIONS	
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; Hot swappable batteries; Remote management; 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
APPLICATIONS	
UPS Applications	Mission Critical Applications
•	



STANDARDS & COMPLIANCE		
Product Certifications	CSA (Canada); UL 1778	
Product Compliance	RoHS; ENERGY STAR Qualified; FCC Part 15 Class A (USA)	
WARRANTY & SUPPORT		
Product Warranty Period (Worldwide)	2-year limited warranty	
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$250,000 Ultimate Lifetime Insurance	



© 2023 Eaton. All Rights Reserved.

Eaton is a registered trademark. All other trademarks are the property of their respective owners.