



Use optional WEBCARDLXE web card Not compatible with WEBCARDLX

# SmartOnline 1000VA 900W 120V Double-Conversion Sine Wave UPS - 8 Outlets, Extended Run, Network Card Option, LCD, USB, DB9, 2U Rack/Tower

# MODEL NUMBER: SU1000RTXLCD2U











Provides battery backup, power protection and sine wave output for mission-critical IT installations, edge networks and other advanced network applications.

#### **Features**

1kVA 900W 120V Battery Backup Protects Equipment against Damage, Downtime and Data Loss This on-line double-conversion UPS system maintains perfect output by converting AC input to DC, then reconverting UPS output to fully regulated sine wave AC. Constant on-line operation completely isolates sensitive equipment from every power problem on the AC line. The SmartOnline® SU1000RTXLCD2U provides the highest level of power protection and battery backup for education, healthcare, military, government and other mission-critical IT applications where space is limited, but premium power reliability is essential.

# Reliable, Expandable Battery Backup Keeps You Operational Through Power Outages

The field-replaceable, hot-swappable battery modules allow you to work through short power failures and give you enough time to safely save files and shut down your system in case of a prolonged blackout. Zero transfer time between on-line and battery modes maintains continuous operation of connected equipment without interruption or rebooting. Extra runtime is available by connecting up to four optional extended battery modules (BP36RT, sold separately).

## Optional LX Platform Network Management Card Allows Remote Access 24/7

The WEBCARDLXE network interface (sold separately) enables full remote configuration and management, including load shedding, reboots of connected equipment and safe shutdowns. The IP-based Auto Probe feature ensures continuous network uptime by communicating with other network devices, detecting lost connectivity and automatically rebooting IT equipment. Optional EnviroSense2 modules (E2MT, E2MTDO and E2MTHDI, all sold separately) provide a variety of environmental monitoring and control options.

# NEMA 5-15R Outlets Protect Your Connected Components

Eight managed 5-15R outlets provide connected equipment with pure sine wave AC output and allow you to manage power consumption down to the outlet group level. Power provided by these outlets is filtered to protect connected equipment against damaging surges and line noise. Four outlets are grouped into two programmable load banks that let you shed non-critical loads to extend runtime for critical loads. A cooling fan helps protect equipment from overheating.

## **Highlights**

- Updated design for 2023
- Offers network-grade protection against power failures and voltage fluctuations
- Zero transfer time between online and battery modes for uninterrupted operation
- Keeps equipment running during outages to allow time for file saves and safe shutdown
- Optional WEBCARDLXE network card enables full remote access and control
- 2-line front-panel LCD with 10 selectable screens reports detailed UPS and site power info

## **Package Includes**

- 1000VA 900W 120V Double-Conversion UPS
- USB cable
- DB9 cable
- · Rack-mounting hardware
- Tower support stands
- · Safety instructions
- Quick start guide





#### Premium Protection from EMI/RFI Line Noise Helps Your Equipment Perform Better

This UPS system filters out disruptive electromagnetic and radio frequency interference that can inflict hardware damage or data loss. This EMI/RFI filtering also helps your connected components perform better and last longer.

## Intuitive Front-Panel Interface for Convenient UPS Operation and Monitoring

The two-line front-panel LCD monitoring screen features 10 selectable screens that allow quick access to a wide range of detailed UPS and site power information. LEDs show UPS status: a green light means utility power is on, an orange light means the UPS is in battery or bypass mode and a red light indicates an active alarm or fault. The control panel rotates to accommodate both rack-mount and tower configurations.

#### **Advanced Communications Ports Allow for Automatic Saves and Shutdowns**

RS-232 and USB ports connect to a device for a variety of communication options (cables are included). A dry-contact relay port can be programmed through the LCD to provide reliable communications to automation and industrial components. The RPO/ROO port permits emergency shutdown or remote restart of all connected equipment. Automatically Turns Back On After Power Is Restored Battery-independent restart ensures automatic UPS power-up without user interaction after lengthy power outages, even after a complete battery discharge.

#### **Versatile Installation Options**

Hardware is included for mounting the UPS system in 2U of space in an EIA-standard 19-inch 4-post rack. You can also adapt it for tower installation using the included support stands. The eight-foot power cord with NEMA 5-15P plug connects to any compatible AC outlet.

# **Specifications**

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OVERVIEW		
UPC Code	037332164261	
UPS Type	On-Line	
INPUT		
Input Phase	Single-Phase	
Rated input current (Maximum Load)	10A	
Nominal Input Voltage(s) Supported	100V AC; 110V AC; 120V AC	
Nominal Input Voltage Description	120V factory default	
UPS Input Connection Type	5-15P	
UPS Input Cord Length (ft.)	8	
UPS Input Cord Length (m)	2.4	
Recommended Electrical Service	120V	
Input Plug Type	NEMA 5-15P	
Input Current	10A	
Power Factor (Input)	0.99	
OUTPUT		
Output Capacity (VA)	1000	
Output Capacity (kVA)	1	





Output Capacity (Watts)	900
Output Capacity (kW)	0.9
Power Factor	0.9
Crest Factor	3:1
Nominal Voltage Details	120V factory-default nominal voltage
Frequency Compatibility	50 / 60 Hz
Frequency Compatibility Details	Online Mode: Sync with line ±5% of nominal line frequency (outside this range: ±0.5% of auto-selected nominal frequency). Battery Mode: ±0.5% of auto-selected nominal frequency
Output Voltage Regulation (Line Mode)	+/- 1%
Output Voltage Regulation (Economy Line Mode)	+/- 1%
Output Voltage Regulation (Battery Mode)	+/- 2%
Load Management Receptacles	Two switchable two-outlet 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	(8) 5-15R
Individually Controllable Load Banks	Yes
BATTERY	
Battery Type	Valve Regulated Lead Acid (VRLA)
Runtime Full Load (min.)	6.3 min. (900W)
Runtime Half Load (min.)	18.2 min. (450W)
Expandable Runtime	Yes
Expandable Runtime Description	Add up to 4 extended battery modules (EBM). Part number <a class="productLink" href="//tripplite.eaton.com/External-36V-2U-Battery-Pack-for-Tripp-Lite-SmartOnline-UPS-Rack-Tower-BP36RT">BP36RT</a> *Note: <a class="productLink" href="//tripplite.eaton.com/External-36V-2U-Battery-Pack-for-Tripp-Lite-SmartOnline-UPS-Rack-Tower-BP36RT">BP36RT</a> is compatible only with the SU1000RTXLCD2U 2023 UPS design update featured on this page. For previous SU1000RTXLCD2U design battery pack functionality, please see the Legacy Product Datasheet under the Support tab, Documents & Downloads section.
External Battery Pack Compatibility	<a class="productLink" href="//tripplite.eaton.com/External-36V-2U-Battery-Pack-for-Tripp-Lite-SmartOnline-UPS-Rack-Tower~BP36RT">BP36RT</a>
DC System Voltage (VDC)	36
Battery Recharge Rate (Included Batteries)	3 hours recharge to 90%
Battery Access	Battery access door
Internal UPS Replacement Battery Cartridge	<a class="productLink" href="//tripplite.eaton.com/replacement-battery-for-eaton-9px1000rt-9px700rt-ups~744-A3960">744-A3960"&gt;744-A3960"&gt;744-A3960"&gt;744-A3960"&gt;744-A3960"&gt;744-A3960"&gt;744-A3960"&gt;744-A3960"&gt;744-A3960"&gt;744-A3960"&gt;744-A3960"&gt;744-A3960"&gt;744-A3960"&gt;744-A3960</a> *Note: <a class="productLink" href="//tripplite.eaton.com/replacement-battery-for-eaton-9px1000rt-9px700rt-ups~744-A3960">744-A3960"&gt;744-A3960</a> is the replacement battery for the SU1000RTXLCD2U 2023 UPS design update featured on this page. For the replacement battery in the previous design of SU1000RTXLCD2U, please see the Legacy Product Datasheet under the Support tab, Documents & Downloads section.





Battery Replacement Description	Hot-swappable, user replaceable batteries		
VOLTAGE REGULATION			
Voltage Regulation Description	Online, double-conversion power conditioning		
USER INTERFACE, ALERTS & CON	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	RPO / ROO		
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	4 status-indicating LEDs		
SURGE / NOISE SUPPRESSION			
UPS AC Suppression Joule Rating	190		
UPS AC Suppression Response Time	Instantaneous		
EMI / RFI AC Noise Suppression	Yes		
AC Suppression Joule Rating	190		
AC Suppression Response Time	Instantaneous		
PHYSICAL			
Primary Form Factor	Rackmount		
Rack Height	2U		
Cooling Method	Fan		
Included Mounting Accessory Description	Includes 4 post rackmount installation accessories		
Installation Form Factors Supported with Included Accessories	4 post 19 inch rackmount		
Installation Form Factors Supported with Optional Accessories	2 post rackmount ( <a class="productLink" href="//tripplite.eaton.com/eaton-2-post-rack-mount-rail-kit-for-9px-ups~RK2PC">RK2PC</a> )		
Minimum Required Rack Depth (cm)	52.58		
Minimum Required Rack Depth (inches)	20.7		
Optional Mounting Accessory Notes	2 post rail kit available, part # <a class="productLink" href="//tripplite.eaton.com/eaton-2-post-rack-mount-rail-kit-for-9px-ups~RK2PC">RK2PC</a>		
Shipping Dimensions (hwd / in.)	9.45 x 21.66 x 23.63		
Shipping Dimensions (hwd / cm)	24.00 x 55.02 x 60.02		
Shipping Weight (lbs.)	48.73		
Shipping Weight (kg)	22.10		





Unit Dimensions (Nwd / in.)  3.410 x 17.330 x 17.720  3.53 8  Unit Weight (Rs.)  3.53 8  Unit Weight (Rs.)  3.54 to 10.4°F (0° to 40°C)  Storage Tamperature Range  3.2° to 10.4°F (0° to 40°C)  Storage Tamperature Range  With battery: 3.2° to 10.4°F (0° to 40°C)  Storage Tamperature Range  With battery: 3.2° to 10.4°F (0° to 40°C)  Storage Tamperature Range  AC Mode Efficiency Rating (100%  Loos)  AC Economy Mode Efficiency Rating (100%  10.08)  4.0 A Economy Mode Efficiency Rating (100%  10.08)  Sage Sage Sage Sage Sage Sage Sage Sage	UPS Housing Material	Metal
Link Weight (kg)	Unit Dimensions (hwd / in.)	3.410 x 17.330 x 17.720
ENVIRONMENTAL  Storage Temperature Range  32* to 104*F (0* to 40°C).  With battery: 32* to 104*F (0* to 40°C), without battery: -13* to 131*F (-25* to 55°C)  Relative Humidity  0 to 96%, non-condensing  AC Mode Efficiency Rating (100% 50.3  AC Economy Mode Efficiency Rating (100% 50.3  Battery Mode hear Dissipation (610**) 646  (Bruthr) & Full Load  Operating Elevation  0-10000 ft. (0-3000 m)  Auditide Noise  40 dB at 1 m  COMMUNICATIONS  Network Management Cards (1) & babay-sa alass-"production," Inde-"/inipplitis enton com/Network-Card-Eaton-Tripp-Lite-Series-UPS-systems-Weige-ARDIXE*-WEBCARDIXE*-WEBCARDIXE*-dns-&nosp.  Network Monitoring Port Description (WEBCARDIXE Supports detailed monitoring of UPS and site power conditions; DB9 port supports RS232 and contact dosure communications; not compatible with WEBCARDIXE.  Pewer/Alert Software For local monitoring via the UPS is built-in communication ports, download Power/Alert software at https://inpplitis-eaton.com/products/power-alert  Communications Cable UB and RS232 cable included  Watch-Dog Compatibility  Supports Watchdog application, OS and hard-reboot restart options for remote applications  Network management Card optional  Network management Card optional  Network management card optional  Communications Interface (1) Contact closure; (1) RS-232; (1) Slot for SNMP/Web interface; (1) USB  Emeragency Power Off (EPO)/Remote On-Off (ROO)  Yes  EINE/ BATTERY TRANSFER  Transfer Time Orns  Expandable battery backup; Hot swappable batteries; On-Line/Double-Conversion; Pure sine wave output; Remote management; Surge/noise protection, Zero transfer time  Expandable battery backup; Hot swappable batteries; On-Line/Double-Conversion; Pure sine wave output; Remote management; Surge/noise protection, Zero transfer time	Unit Weight (lbs.)	36.38
Operating Temperature Range 32° to 104°F (0° to 40°C)  Storage Temperature Range With battery: 32° to 104°F (0° to 40°C); without battery: -13° to 131°F (-25° to 55°C)  Relative Humidity 0 to 96%, non-condensing  AC Mode Efficiency Rating (100% 10.03)  AC Economy Mode Heat Dissipation (100% 10.03)  Battery Mode Heat Dissipation (100% 10.03)  Batter	Unit Weight (kg)	16.50
Storage Temperature Range  With battery: 32° to 104°F (0° to 40°C); without battery: -13° to 131°F (-25° to 55°C)  Relative Humidity  0 to 96%, non-condensing  AC Mode Efficiency Rating (100%  Load)  AC Economy Mode Efficiency Rating (100%  Load)  90.3  AC Economy Mode Efficiency Rating (100%  Load)  330  Sattery Mode Heart Dissipation  (BTUHn) 6° Full Load  330  Battery Mode Heart Dissipation  (BTUHn) 6° Full Load  Operating Elevation  0 -10000 ft. (0-3000 m)  Audible Noise  40 dB at 1m  COMMUNICATIONS  Network Management Cards  (1) Anbsp.,-a class="productLink" hyefs-"/Mypplite aston.com/Network-Card-Eaton-Tripp-Lite-Series-UPS-systems-WIEBCARDLXE*-WIEBCARDLXE*-6-8-8-bsp:  Network Monitoring Port Description  WEBCARDLXE Supports detailed monitoring of UPS and site power conditions; DB9 port supports RS232 and contact closure communications; not compatible with WEBCARDLX  PowerAlert Software  For local monitoring was the UPS's built-in communication ports, download PowerAlert software at https://ripplite.eaton.com/products/power-alert  Communications Cable  USB and RS232 cable 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  (1) Confact closure; (1) RS-232; (1) Slot for SNMP/Web interface; (1) USB  Emeragency Power Off (EPO)/Remote On-Off (ROO)  Yes  LINE / BATTERY TRANSFER  Transfer Time  Oms  Cold-start operation supported  Expandable battery backup, Hot swappable batteries; On-Line/Double-Conversion; Pure sine wave output; Remote management; Surgenoise protection; Zero transfer time	ENVIRONMENTAL	
Relative Humidity 0 10 96%, non-condensing 90.3  AC Mode Efficiency Rating (100% Load) 90.3  AC Economy Mode Efficiency Rating (100% Load) 95.8  Online Mode Heat Dissipation (810/H) 67 Efficiency Rating (100% Load) 330  Battery Mode Heat Dissipation (810/H) 67 Efficiency Rating (100% Load) 330  Battery Mode Heat Dissipation (810/H) 67 Efficiency Rating (100% Load) 95.8  Operating Elevation 0-10000 ft. (0-3000 m)  Audible Noise 40 dB at 1m  COMMUNICATIONS  Network Management Cards (1) &nbsp-ca classe* productLink* hrefs*//hripplite.eaton.com/Network-Card-Eaton-Tripp-Life-Series-UPS-Systems-WEBCARDLXE*-SWEBCARDLXE*-2a-8-nbsp- Network Monitoring Port Description (2000 m) (	Operating Temperature Range	32° to 104°F (0° to 40°C)
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Online Mode Heat Dissipation (BTUHri) @ Full Load  Battery Mode Heat Dissipation (BTUHri) @ Full Load  646  Operating Elevation  Audible Noise  40 dB at 1m  COMMUNICATIONS  Network Management Cards (1) & hbsp; <a class="productLink" href="//rripplite eaton.com/Network-Card-Eaton-Tripp-Lite-Series-UPS-Systems-WEBCARDLXE">WEBCARDLXE"&gt;WEBCARDLXE"<td></td><td>90.3</td></a>		90.3
Battery Mode Heat Dissipation (BTU/Hr) @ Full Load 646  Operating Elevation 0-10000 ft. (0-3000 m)  Audible Noise 40 dB at 1m  COMMUNICATIONS  Network Management Cards (1) & hbsp:/-ac class="productLink" href="//tripplite.eaton.com/Network-Card-Eaton-Tripp-Lite-Series-UPS-Systems-WEBCARDLXE">W		95.8
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Network Management Cards         (1) <a class="productLink" hrefs="//tripplite_eaton.com/Network-Card-Eaton-Tripp-Lite-Series-UPS-Systems-WEBCARDLXE">Network Monitoring Port Description           Network Monitoring Port Description         WEBCARDLXE Supports detailed monitoring of UPS and site power conditions; DB9 port supports RS232 and contact closure communications; not compatible with WEBCARDLX           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 RS232 cable included           WatchDog Compatibility         Supports Watchdog application, OS and hard-reboot restart options for remote applications           Network Management Card         Network management card optional           Communications Interface         (1) Contact closure; (1) RS-232; (1) Slot for SNMP/Web interface; (1) USB           Emergency Power Off (EPO)/Remote On-Off (ROO)         Yes           LINE / BATTERY TRANSFER           Transfer Time         Oms           FEATURES &amp; SPECIFICATIONS           Cold Start (Startup in Battery Mode During a Power Failure)         Cold-start operation supported           High Availability UPS Features         Expandable battery backup; Hot swappable batteries; On-Line/Double-Conversion; Pure sine wave output; Remote management; Surge/noise protection; Zero transfer time</a>	Audible Noise	40 dB at 1m
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LINE / BATTERY TRANSFER  Transfer Time  Oms  FEATURES & SPECIFICATIONS  Cold Start (Startup in Battery Mode During a Power Failure)  High Availability UPS Features  Expandable battery backup; Hot swappable batteries; On-Line/Double-Conversion; Pure sine wave output; Remote management; Surge/noise protection; Zero transfer time	Communications Interface	(1) Contact closure; (1) RS-232; (1) Slot for SNMP/Web interface; (1) USB
Transfer Time  Oms  FEATURES & SPECIFICATIONS  Cold Start (Startup in Battery Mode During a Power Failure)  Cold-start operation supported  Expandable battery backup; Hot swappable batteries; On-Line/Double-Conversion; Pure sine wave output; Remote management; Surge/noise protection; Zero transfer time		Yes
FEATURES & SPECIFICATIONS  Cold Start (Startup in Battery Mode During a Power Failure)  Cold-start operation supported  Expandable battery backup; Hot swappable batteries; On-Line/Double-Conversion; Pure sine wave output; Remote management; Surge/noise protection; Zero transfer time	LINE / BATTERY TRANSFER	
Cold Start (Startup in Battery Mode During a Power Failure)  Cold-start operation supported  High Availability UPS Features  Expandable battery backup; Hot swappable batteries; On-Line/Double-Conversion; Pure sine wave output; Remote management; Surge/noise protection; Zero transfer time	Transfer Time	0ms
During a Power Failure)  High Availability UPS Features  Expandable battery backup; Hot swappable batteries; On-Line/Double-Conversion; Pure sine wave output; Remote management; Surge/noise protection; Zero transfer time	FEATURES & SPECIFICATIONS	
management; Surge/noise protection; Zero transfer time	Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
Green Energy-Saving Features High efficiency economy mode operation: Individually controllable load banks	High Availability UPS Features	
Figir children de controlly mode operation, multiqually controllable load ballics	Green Energy-Saving Features	High efficiency economy mode operation; Individually controllable load banks





APPLICATIONS		
UPS Applications	Mission Critical Applications	
STANDARDS & COMPLIANCE		
Product Certifications	CAN/CSA-C22.2 No. 107.3 (Canada); UL 1778	
Product Compliance	RoHS	
WARRANTY & SUPPORT		
Product Warranty Period (Worldwide)	2-year limited warranty	
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$250,000 <a class="insuranceLink" href="//tripplite.eaton.com/support/insurance-policy">Ultimate Lifetime Insurance</a>	
Extended Service Plans	5-year depot exchange plan: TL9SW5Y-1500UCExpedited parts coverage for 5 yearsParts, electronics and UPS batteries coverageNext business day shippingTechnical support5-year onsite plan: TLWFLN75XX-2509UCOnsite parts and labor coverage for 5 yearsParts, electronics and UPS batteries coverage24x7 onsite labor coverage, next-day responseNext-day shippingTechnical support	

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