

## SmartOnline 120V 3kVA 2.7kW Double-Conversion UPS, 3U Rack/Tower, Extended Run, WEBCARDLX Network Interface, LCD, USB, DB9

MODEL NUMBER: SU3000RTXLCD3N



Protects connected mission-critical equipment against damage, downtime and data loss due to blackouts, brownouts, power surges and line noise. Pre-installed Network Management Card permits remote UPS management.

### Description

The SU3000RTXLCD3N SmartOnline® 120V 3kVA 2.7kW 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 four NEMA 5-15R and four 5-15/20R outlets in switchable numbered load banks, as well as one L5-30R outlet and an L5-30P input, the SU3000RTXLCD3N has an internal battery that provides 11 minutes of support at half load and four minutes at full load. Adding external battery packs, such as BP72V15-2U (sold separately), provides extended runtime.

The Java-free HTML5-based WEBCARDLX interface 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.

Optional EnviroSense2 modules (sold separately) provide a variety of environmental monitoring capabilities. Protocols supported include HTTP, HTTPS, SMTP, SNMPv1, SNMPv2, SNMPv3, telnet, SSH, FTP, DHCP and NTP.

An interactive LCD panel 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.

### 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
- Pre-installed WEBCARDLX network interface
- 11 min. runtime at half load; 4 min. at full load
- To enable the Auto Probe feature, this product requires LX firmware update 15.5.2 or later to be installed

### Package Includes

- SU3000RTXLCD3N SmartOnline 120V 3kVA 2.7kW On-Line Double-Conversion UPS
- Pre-installed WEBCARDLX network interface
- USB cable
- DB9 cable
- EPO cable
- Mounting hardware
- Owner's manual



**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 4 NEMA 5-15R, 4 5-15/20R and 1 L5-30R outlets 10 ft. power cord with NEMA L5-30P input 570-joule surge suppression rating

**Reliable Battery Backup with Expandable Runtime** Supports half load for 11 min. and full load for 4 min. Zero transfer time suitable for advanced network applications Expandable runtime with optional external battery packs, such as Tripp Lite's BP72V15-2U Battery independent restart ensures automatic UPS power-up after lengthy power outages, even with expired batteries

**Pre-Installed WEBCARDLX Network Interface** Allows full remote access for power monitoring, configuration, control and email notifications via secure web browser, SNMP, telnet or SSH Optional EnviroSense2 sensors (sold separately) enable site monitoring of temperature, humidity and contact-closure status

**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

**EM/RFI Line Noise Filtering** Removes electromagnetic and radio frequency interference that can disrupt or damage equipment's performance

**Communications Ports** USB and DB9 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 3U of EIA-standard 19 in. rack Mounts on wall or 2-post rack with optional 2POSTRMKITHDMounts in upright tower position with optional 2-9USTAND

**Specifications**

OVERVIEW	
UPC Code	037332194596
UPS Type	On-Line
INPUT	
Rated input current (Maximum Load)	24A
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	L5-30P
Input Circuit Breakers	40A
UPS Input Cord Length (ft.)	10
UPS Input Cord Length (m)	3.1
Recommended Electrical Service	30A 120V
Input Phase	Single-Phase
OUTPUT	
Output Volt Amp Capacity (VA)	3000
Output kVA Capacity (kVA)	3
Output Watt Capacity (Watts)	2700



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Output kW Capacity (kW)	2.7
Output Capacity Details	<p>ON LINE MODE: Maximum output capacity rating is reduced to 2430W (115V), 2295W (110V) and 2160W (100V); FREQUENCY REGULATION / CONVERSION MODE: Maximum output ratings are reduced in frequency regulation / conversion mode (127/120V 1890 watts / 115V 1701 watts / 110V 1606 watts / 100V 1512 watts)</p> <p>OVERLOAD CAPACITY: Supports inverter operation up to 105% load continuously, 125% load for 3 minutes; 150% load for 30 seconds and &gt;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)</p>
Power Factor	0.9
Crest Factor	3:1
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	<p>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.</p> <p>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.</p>
Output Voltage Regulation (Line Mode)	+/- 2%
Output Voltage Regulation (Economy Line Mode)	+/- 10%
Output Voltage Regulation (Battery Mode)	+/- 3%
Load Management Receptacles	Two switchable four-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	(4) 5-15R; (4) 5-15/20R; (1) L5-30R
Individually Controllable Load Banks	Yes
<b>BATTERY</b>	
Full Load Runtime (min.)	4 min. (2700w)
Half Load Runtime (min.)	11 min. (1350w)
Expandable Battery Runtime	Extended runtime supported via optional external battery packs
External Battery Pack Compatibility	<p>&amp;nbsp;&lt;a class="productLink" href="//www.tripplite.com/External-72V-2U-RackTower-Battery-Pack-for-Select-Tripp-Lite-UPS-Systems~BP72V15-2U"&gt;BP72V15-2U&lt;/a&gt;&amp;nbsp; (limit 1); &amp;nbsp;&lt;a class="productLink" href="//www.tripplite.com/External-72V-3U-Rack-Tower-Battery-Pack-Select-Tripp-Lite-UPS-systems~BP72V28RT-3U"&gt;BP72V28RT-3U&lt;/a&gt;&amp;nbsp; (multi-pack compatible); &amp;nbsp;&lt;a class="productLink" href="//www.tripplite.com/External-72V-2U-Rack-Tower-Battery-Pack-for-Tripp-Lite-UPS-Systems~BP72V18-2US"&gt;BP72V18-2US&lt;/a&gt;&amp;nbsp; (multi-pack compatible)</p>
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)	72
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/3U-UPS-Replacement-72VDC-Battery-Cartridge-1-set-6-select-Tripp-Lite-SmartOnline-UPS~RBC96-3U">RBC96-3U</a>&nbsp;
Battery Access	Front panel battery access
Battery Replacement Description	Hot-swappable, user replaceable batteries
Expandable Runtime	Yes
<b>POWER</b>	
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>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
<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>	
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 (&nbsp;   <a class="productLink" href="//www.tripplite.com/2-Post-Rack-Mount-Installation-Kit-3U-Larger-UPS-Transformer-Battery-Pack-Components~2POSTRMKITHD">2POSTRMKITHD</a>&nbsp;   )
Minimum Required Rack Depth with External Battery Pack (cm)	81



Minimum Required Rack Depth with External Battery Pack (in.)	32
Minimum Required Rack Depth without External Battery Pack (cm)	77
Minimum Required Rack Depth without External Battery Pack (in.)	30.5
Primary Form Factor	Rackmount
Primary UPS Depth (mm)	660
Primary UPS Height (mm)	133
Primary UPS Width (mm)	451
Rack Height	3U
Shipping Dimensions (hwd / cm)	30.48 x 58.42 x 83.82
Shipping Dimensions (hwd / in.)	12.00 x 23.00 x 33.00
Shipping Weight (kg)	54.20
Shipping Weight (lbs.)	119.50
UPS Housing Material	Steel
UPS Power Module Dimensions (hwd, cm)	13.34 x 45.08 x 66.04
UPS Power Module Dimensions (hwd, in.)	5.25 x 17.75 x 26
UPS Power Module Weight (kg)	33.57
UPS Power Module Weight (lbs.)	74
<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	5 to 95%, non-condensing
AC Mode BTU / Hr. (Full Load)	801
AC Economy Mode BTU / Hr. (Full Load)	188
Battery Mode BTU / Hr. (Full Load)	1626
AC Economy Mode Efficiency Rating (100% Load)	98%
Audible Noise	50 dBA at 1m front side
Operating Elevation (m)	Up to 3000m
<b>COMMUNICATIONS</b>	
Network Management Cards	&nbsp;<a class="productLink" href="//www.tripplite.com/Web-Management-Accessory-Card~WEBCARDLX">WEBCARDLX</a>&nbsp;</td>
Network Monitoring Port Description	Includes pre-installed WEBCARDLX Network Management Card; 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 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
Communications Interface	Contact closure; DB9 Serial; EPO (emergency power off); Pre-installed network card; 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)	55V at 33% load, 70V at 70% load, 100V at 100% load (90V full load at 100V nominal setting)
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; Auto Probe Monitoring and Reboot (included); Zero transfer time; On-Line/Double-Conversion
Green Energy-Saving Features	High efficiency economy mode operation; Individually controllable load banks; Schedulable daily hours of economy mode operation
<b>STANDARDS &amp; COMPLIANCE</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 &nbsp;<a class="insuranceLink" href="//www.tripplite.com/support/insurance-policy">Ultimate Lifetime Insurance</a> &nbsp;

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