SmartOnline 120V 3kVA 2.4kW On-Line Double-Conversion UPS, 3U Rack/Tower, Extended Run, WEBCARDLX Network Interface

MODEL NUMBER: **SU3000RTXL3UN**

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 for remote UPS access
- 14 min. runtime at half load; 5 min. at full load

Package Includes

- SU3000RTXL3UN SmartOnline 120V 3kVA 2.4kW On-Line Double-Conversion UPS
- Pre-installed WEBCARDLX network interface
- USB cable
- DB9 cable
- EPO cable
- Rack-mounting hardware
- Owner's manual

Description

The SU3000RTXL3UN SmartOnline® 120V 3kVA 2.4kW On-Line Double-Conversion UPS provides the highest level of battery backup and AC power protection for critical server, network and telecom equipment. 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 and zero transfer time to battery.

Operating with a high 94% efficiency in optional economy mode, the SU3000RTXL2U cuts BTU heat output, power consumption and energy costs. Featuring four NEMA 5-15/20R and four 5-15R outlets in two switchable breakered load banks, as well as one non-breakered L5-30R outlet, the SU3000RTXL3UN has an internal battery that provides 14 minutes of support at half load and 5 minutes at full load. Adding optional external battery packs, such as Tripp Lite's BP72V15-2U (sold separately), provides extended runtime.

The pre-installed 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 IPv4, IPv6, HTTP, HTTPS, SMTP, SNMPv1, SNMPv2, SNMPv3, telnet, SSH, FTP, DHCP and NTP.

Features

Protects Mission-Critical Rack-Mounted Equipment

- Selectable 110/120V 50/60 Hz output voltage with 0.8 power factor
- +/-2% voltage regulation in online and battery modes
- 4 breakered NEMA 5-15/20R, 4 breakered 5-15R and 1 non-breakered L5-30R outlets
- 10 ft. AC power cord with NEMA L5-30P input plug
- 510 joules for combating EMI/RFI line noise that can distort or destroy data

Reliable Battery Backup with Expandable Runtime

- Supports half load for 14 min. and full load for 5 min.
- Zero transfer time between AC power and battery operation keeps network running during blackouts
- Expandable runtime with optional external battery packs, such as Tripp Lite's BP72V15-2U

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
- Supports 10/100 Mbps auto-sensing for communication with an Ethernet network
- No Java required

Broad Communications Compatibility
- Supports IPv4, IPv6, HTTP, HTTPS, SMTP, SNMPv1, SNMPv2, SNMPv3, telnet, SSH, FTP, DHCP and NTP
- Supports automatic and manual assignment of IP address

Optional Economy Mode
- High 94% efficiency in economy mode cuts BTU heat output, power consumption and energy costs

Switchable Breakered Load Banks
- NEMA 5-15/20R and 5-15R outlets divided into 2 load banks, each of which may be individually powered on and off remotely to reset or reboot connected equipment

Front LED Panel
- 14 LEDs indicate line power, online mode, economy/bypass mode, on-battery, overload, battery condition and fault status information
- Rotates for viewing in rack and tower formats

USB and DB9 Ports
- Enable data-saving unattended shutdown with Tripp Lite's PowerAlert software (available via free download at www.tripplite.com/poweralert)

Versatile Installation Options
- Mounts in 3U of EIA-standard 19 in. 4-post rack (hardware included), 2-post rack or upright tower position

Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	3000
Output kVA Capacity (kVA)	3
Output Watt Capacity (Watts)	2400
Output kW Capacity (kW)	2.4
Output Capacity Details	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	0.8
Crest Factor	3:1

Nominal Output Voltage(s) Supported	110V; 120V
Nominal Voltage Details	120V default
Frequency Compatibility	50 / 60 Hz
Frequency Compatibility Details	Output frequency matches input nominal on startup, defaults to 60 Hz on cold-start
Output Voltage Regulation (Line Mode)	+/- 2%
Output Voltage Regulation (Economy Line Mode)	+/- 10%
Output Voltage Regulation (Battery Mode)	+/- 2%
Output Receptacles	(4) 5-15R; (4) 5-15/20R; (1) L5-30R
Load Management Receptacles	Two switchable four-outlet load banks, (bank 1 - four 5-15/20R, bank 2 - four 5-15R outlets)
Output Circuit Breakers	15A branch rated (x2) - each breaker protects 4 outlets, L5-30R is unbreakered
Output AC Waveform (AC Mode)	Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave

INPUT

Rated input current (Maximum Load)	24A
Nominal Input Voltage(s) Supported	110V AC; 120V AC
UPS Input Connection Type	L5-30P
Input Circuit Breakers	40A
UPS Input Cord Length (ft.)	10
UPS Input Cord Length (m)	3.0
Recommended Electrical Service	30A 120V
Input Phase	Single-Phase

BATTERY

Full Load Runtime (min.)	5 min. (2400w)
Half Load Runtime (min.)	14 min. (1200w)
Expandable Battery Runtime	Supports extended runtime with optional external battery packs
External Battery Pack Compatibility	BP72V15-2U(limit 1); BP72V28RT-3U(multi-pack compatible); BP72V18-2US(multi-pack compatible)
DC System Voltage (VDC)	72
Battery Recharge Rate (Included Batteries)	Less than 6 hours from 10% to 80% (typical, full load discharge)
Internal UPS Replacement Battery Cartridge	RBC96-3U(quantity 1)
Battery Access	Front panel battery access door

Battery Replacement Description	Hot-swappable, user replaceable batteries
Expandable Runtime	Yes

VOLTAGE REGULATION	
Voltage Regulation Description	Online, double-conversion power conditioning
Overvoltage Correction	2% output voltage regulation during overvoltages to 150
Undervoltage Correction	2% output voltage regulation during undervoltages to 80
Severe Undervoltage Correction	2% output voltage regulation during undervoltages to 65 (under 70% load only)

USER INTERFACE, ALERTS & CONTROLS	
Switches	2 switches control off/on power status and alarm-cancel/self-test operation
Alarm Cancel Operation	Power-fail alarm can be silenced using alarm-cancel switch
Audible Alarm	Audible alarm indicates UPS startup, power-failure, low-battery, overload, UPS fault and remote shutdown conditions
LED Indicators	14 LEDs indicate line power, online mode, economy/bypass mode, on-battery, overload, battery low, replace battery and fault status information; 4-LED meter displays load and battery charge levels; LED panel rotates for viewing in rack/tower formats

SURGE / NOISE SUPPRESSION	
UPS AC Suppression Joule Rating	510
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	
Included Mounting Accessory Description	Includes 4 post rackmount installation accessories
Installation Form Factors Supported with Optional Accessories	2 post rackmount(2POSTRMKITHD); Tower(2-9USTAND)
Primary Form Factor	Rackmount
UPS Power Module Dimensions (hwd, in.)	5.2 x 17.8 x 26
UPS Power Module Dimensions (hwd, cm)	13.21 x 45.21 x 66.04
Rack Height (U Spaces)	3
Minimum Required Rack Depth (inches)	37
Minimum Required Rack Depth (cm)	93.98
UPS Power Module Weight (lbs.)	73.8
UPS Power Module Weight (kg)	33.48

UPS Shipping Dimensions (hwd / in.)	11.2 x 23 x 31.5
UPS Shipping Dimensions (hwd / cm)	28.45 x 58.42 x 80.01
Shipping Weight (lbs.)	112.4
Shipping Weight (kg)	51
Cooling Method	Fan
UPS Housing Material	Steel
Minimum Required Rack Depth (mm)	940
Primary UPS Height (mm)	132
Primary UPS Width (mm)	452
Primary UPS Depth (mm)	660
Shipping Height (mm)	284
Shipping Width (mm)	584
Shipping Depth (mm)	800

ENVIRONMENTAL

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	0 to 95%, non-condensing
AC Mode BTU / Hr. (Full Load)	1117
AC Economy Mode BTU / Hr. (Full Load)	523
Battery Mode BTU / Hr. (Full Load)	1224
AC Economy Mode Efficiency Rating (100% Load)	94%

COMMUNICATIONS

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	Includes pre-installed Network Management Card; DB9 port supports RS232 and contact closure communications; Economy-mode setting option is available using PowerAlert software and DB9 Serial cable connection OR installed Network Management Card
PowerAlert Software	For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert
Communications Cable	USB and DB9 cabling included
WatchDog Compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications

LINE / BATTERY TRANSFER

Transfer Time	No transfer time (0 ms.) in online, double-conversion mode

Low Voltage Transfer to Battery Power (Setpoint)	80V (100% load), 65V (<70% load)
High Voltage Transfer to Battery Power (Setpoint)	150

SPECIAL FEATURES	
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

CERTIFICATIONS	
UPS Certifications	Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category A (EMI)

WARRANTY	
Product Warranty Period (Worldwide)	2-year limited warranty
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	$250,000 Ultimate Lifetime Insurance