SmartOnline 120V 1kVA 900W Double-Conversion UPS, Tower, Extended Run, Network Card Options, LCD, USB, DB9 Serial

MODEL NUMBER: **SU1000XLCD**

Description

Do you need to protect small- to medium-size servers, networking equipment and telecom systems against data loss, downtime and equipment damage due to power outages, voltage fluctuations and transient surges? Tripp Lite's SU1000XLCD SmartOnline® Tower UPS System is the solution! Featuring a 1000VA/900W capacity and true on-line operation with pure sine wave output and zero transfer time to battery, it provides the highest level of power protection for mission-critical equipment. The SU1000XLCD's large internal battery set supports connected equipment during blackouts, and runtime is expandable with optional external battery packs (Tripp Lite model BP24V15RT2U, BP24V28-2U or BP24V70-3U), sold separately. The SU1000XLCD has 6 5-15R outlets, including 2 single-outlet load banks that are individually controllable to reboot select equipment on demand or maximize battery runtime for mission-critical equipment. USB and DB9 communication ports support messaging of detailed UPS operational parameters and line power status. PowerAlert UPS management software is available via free download. It comes backed by $250,000 of Ultimate Lifetime Insurance (U.S., Canada, and Puerto Rico only).

Features

Ideal for Protection of Mission-Critical Equipment

True On-Line Operation with Pure Sine Wave Output and Zero Transfer Time

Individually Controllable Outlets

Highlights

- 1000VA / 1kVA / 900 watt on-line double-conversion tower UPS
- 100/110/120/127V 50/60Hz output, high efficiency economy mode option
- Interactive LCD with 10 selectable screens of UPS and site power data
- Expandable runtime, Hot-swappable batteries
- USB, RS232 & EPO ports, Network Management Card options
- 2 independently switched load banks
- NEMA 5-15P input; 6 5-15R outlets
- To use the Auto Probe feature, this product requires a WEBCARDLX network interface (sold separately) running LX firmware update 15.5.2 or later

Package Includes

- SU1000XLCD SmartOnline® Tower UPS System
- USB, DB9 and EPO Cables
- Owner's Manual

Reliable, Expandable Battery Backup

High Power Factor and Highly Efficient Operation Reduces BTU Output

AC Line and Tel/Ethernet Surge Suppression

EMI/RFI Line Noise Filtering

LCD Screen and Audible Alarm

USB/DB9 Ports, Network Management Cards and PowerAlert Software

www.tripplite.com/poweralert

Emergency Power Off (EPO) Capability

Peace of Mind

Specifications

OVERVIEW	
UPC Code	037332174666
UPS Type	On-Line

INPUT	
Rated input current (Maximum Load)	10A
Nominal Input Voltage(s) Supported	100V AC; 110V AC; 120V AC; 127V AC
Nominal Input Voltage Description	120V factory default
UPS Input Connection Type	5-15P
Input Circuit Breakers	15A
UPS Input Cord Length (ft.)	10
UPS Input Cord Length (m)	3.1
Recommended Electrical Service	15A 120V
Input Phase	Single-Phase

OUTPUT

Output Volt Amp Capacity (VA)	1000
Output kVA Capacity (kVA)	1
Output Watt Capacity (Watts)	900
Output kW Capacity (kW)	0.9
Power Factor	0.9
Crest Factor	3:1
Nominal Voltage Details	120V default
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 when 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 of selected nominal.
Output Voltage Regulation (Line Mode)	+/- 2%
Output Voltage Regulation (Economy Line Mode)	+/- 10%
Output Voltage Regulation (Battery Mode)	+/- 3%
Load Management Receptacles	Two switchable single-outlet 5-15R load banks
Output AC Waveform (AC Mode)	Pure Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
Output Capacity Details	ON LINE MODE: Maximum output capacity rating is reduced to 810W at 100V nominal; FREQUENCY REGULATION / CONVERSION MODE: Maximum output ratings are reduced in frequency regulation / conversion mode (127/120/115/110V 630 watts / 100V 567 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)
Nominal Output Voltage(s) Supported	100V; 110V; 115V; 120V; 127V
Output Receptacles	(6) 5-15R
Individually Controllable Load Banks	Yes

BATTERY

Full Load Runtime (min.)	3.8 min. (900w)
Half Load Runtime (min.)	12.8 min. (450w)
Expandable Battery Runtime	Extended runtime supported via optional external battery packs

External Battery Pack Compatibility	BP24V15RT2U (limit 1); BP24V28-2U (limit 1); BP24V70-3U (multi-pack compatible)
Expandable Runtime Description	External battery configurations require the use of Tripp Lite's External Battery Configuration Software, see manual for details
DC System Voltage (VDC)	24
Battery Recharge Rate (Included Batteries)	Less than 3 hours from 10% to 90% (typical, full load discharge)
Internal UPS Replacement Battery Cartridge	RBC24V-LCD
Battery Access	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 55V (33% load), 70V (70% load), 100V (100% 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/self-test operation
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

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

Cooling Method	Fan
Primary Form Factor	Tower
Primary UPS Depth (mm)	335
Primary UPS Height (mm)	254

Primary UPS Width (mm)	173
Shipping Dimensions (hwd / cm)	35.31 x 24.89 x 45.72
Shipping Dimensions (hwd / in.)	13.90 x 9.80 x 18.00
Shipping Weight (kg)	15.20
Shipping Weight (lbs.)	33.50
UPS Housing Material	Steel
UPS Power Module Dimensions (hwd, cm)	25.40 x 17.27 x 33.53
UPS Power Module Dimensions (hwd, in.)	10 x 6.8 x 13.2
UPS Power Module Weight (kg)	13.02
UPS Power Module Weight (lbs.)	28.7

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)	341
AC Economy Mode BTU / Hr. (Full Load)	128
Battery Mode BTU / Hr. (Full Load)	585
AC Mode Efficiency Rating (100% Load)	90%
AC Economy Mode Efficiency Rating (100% Load)	95%
Audible Noise	< 50 dB at front side 1m
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 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

Communications Interface	Contact closure; DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface; USB (HID enabled)
LINE / BATTERY TRANSFER	
Transfer Time	Zero transfer time (0 ms.) in online, double-conversion and frequency regulation / conversion modes;
Low Voltage Transfer to Battery Power (Setpoint)	55V (33% load), 70V (70% load), 100V (100% 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; Auto Probe Monitoring and Reboot (requires WEBCARDLX); 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
STANDARDS & COMPLIANCE	
UPS Certifications	Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category B (EMI)
WARRANTY	
Product Warranty Period (Worldwide)	2-year limited warranty
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	$250,000 Ultimate Lifetime Insurance