

## SmartOnline 208/230V 1kVA 900W Double-Conversion UPS, 2U, Extended Run, SNMP Card Option, LCD, USB, DB9, ENERGY STAR

MODEL NUMBER: **SUINT1000LCD2U**



Protects connected mission-critical equipment against damage, downtime and data loss due to blackouts, brownouts, power surges and line noise. Ideal solution for critical voice, data, medical and industrial IT applications.

### Description

The SUINT1000LCD2U SmartOnline® 208/230V 1kVA 900W 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 continuously regulates AC output within 2% of the selected nominal output voltage with zero transfer time from online to battery mode.

Operating with a high 93% line mode efficiency, the ENERGY STAR-certified SUINT1000LCD2U saves you money by meeting strict EPA guidelines. Featuring six C13 outlets (four of them in two switchable two-outlet load banks) and a C14 input, the SUINT1000LCD2U has an internal battery that provides 12.3 minutes of support at half load and 4.7 minutes at full load. Adding external battery packs, such as BP24V36-2US (sold separately), provides extended runtime.

Managing the SUINT1000LCD2U is simplified through the interactive front-panel LCD interface, which displays operating conditions and diagnostic data, such as load and battery levels. You can set power strategies to reflect your protection priorities, whether it's precise power quality for sensitive systems or the highest possible electrical efficiency.

EMI/RFI noise filtering improves your equipment's performance and prevents damage. A 627-joule surge suppression rating protects your equipment from harmful power surges. Adding an optional Tripp Lite network management card, such as WEBCARDLX and SNMPWEBCARD, permits remote management of the UPS, including reboots and activity logs.

### Highlights

- +/-2% output voltage regulation in online and battery modes
- 6 C13 outlets—2 switchable 2-outlet load banks
- Compatible with Tripp Lite network management cards
- Meets strict ENERGY STAR® efficiency guidelines
- 12.3 min. runtime at half load; 4.7 min. at full load

### Package Includes

- SUINT1000LCD2U SmartOnline 1kVA 900W On-Line Double-Conversion UPS
- 4-post rack-mount installation kit
- USB cable
- DB9 cable
- (2) C13-to-C14 power cables
- Owner's manual



## Features

### Protects Mission-Critical Rack-Mounted Equipment

- Provides fully regulated sine wave AC output for critical voice, data, medical and industrial IT applications
- +/-2% voltage regulation in online and battery modes
- Selectable 200/208/220/230/240V output voltage
- 6 C13 outlets, including 4 in 2 switchable 2-outlet load banks
- C14 input
- 627-joule surge suppression rating

### Reliable Battery Backup with Expandable Runtime

- Supports half load for 12.3 min. and full load for 4.7 min.
- Internal batteries designed for hot-swap field replacement
- Expandable runtime with optional external battery packs, such as Tripp Lite's BP24V36-2US
- Battery-independent restart ensures automatic power-up after lengthy power outages

### Interactive Front-Panel LCD

- Reports detailed status information, including load and battery levels
- Offers advanced configuration options, including output voltage and power strategies

## 5 Power Strategies

- Auto Adaptive enables high efficiency operation as necessary for ideal equipment protection
- Max Efficiency favors economy operation with high 96% efficiency
- Max Quality favors on-line, double-conversion mode, maintaining +/-2% output voltage regulation and zero transfer time
- Frequency Regulation and Frequency Conversion enable +/-0.05 Hz output regulation for selected frequency (50/60 Hz)

### Highly Customizable

- Selectable auto-restart from 0 to 60 sec. after AC power is restored
- Selectable minimum battery charge level before auto-restart
- Schedule system reboot if USB signal from connected device is lost
- Set overload thresholds and low battery levels for alert and shutdown

### ENERGY STAR Certification

- 93% line mode efficiency saves money and energy and protects environment by meeting strict EPA efficiency guidelines

### Optional Network Management Cards

- Compatible Tripp Lite UPS management card options WEBCARDLX and SNMPWEBCARD support a wide variety of UPS control and monitoring capabilities



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#### Communications Ports

- USB and DB9 ports enable data-saving unattended shutdown when used with Tripp Lite's PowerAlert software (available via free download at [www.tripplite.com/poweralert](http://www.tripplite.com/poweralert))

## Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	1000
Output kVA Capacity (kVA)	1
Output Watt Capacity (Watts)	900
Output kW Capacity (kW)	1
Output Capacity Details	DE-RATING INFORMATION: Max output in Frequency Conversion mode is reduced to 630 watts for 208/220/230/240V output voltages; Max output is 720W (504W in Frequency Conversion mode) at 200V output voltage  OVERLOAD CAPACITY: Supports inverter operation up to 105% load continuously, 125% for 3 minutes, 150% for 30 seconds and >150% 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 Output Voltage(s) Supported	200V; 208V; 220V; 230V; 240V
Nominal Voltage Details	Nominal output voltage is user configured on first power-on
Frequency Compatibility	50 / 60 Hz; Supports 50 to 60 Hz and 60 to 50 Hz conversion
Frequency Compatibility Details	Output frequency matches input nominal on startup; Output capacity de-rates by 30% during frequency conversion operation
Output Voltage Regulation (Line Mode)	+/- 2%
Output Voltage Regulation (Economy Line Mode)	+/- 10%
Output Voltage Regulation (Battery Mode)	+/- 2%
Output Receptacles	(6) C13
Included Output Power Cables	Includes 2 C13 to C14 power cables
Load Management Receptacles	Two switchable 2-outlet load banks
Output AC Waveform (AC Mode)	Pure Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
INPUT	
Rated input current (Maximum Load)	4.99A



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Nominal Input Voltage(s) Supported	200V AC; 208V AC; 220V AC; 230V AC; 240V AC
UPS Input Connection Type	C14 inlet
Input Phase	Single-Phase
<b>BATTERY</b>	
Full Load Runtime (min.)	4.7 min. (900w)
Half Load Runtime (min.)	12.3 min. (450w)
Expandable Battery Runtime	Supports extended runtime with optional external battery packs
External Battery Pack Compatibility	<a href="#">BP24V15RT2U~BP24V15RT2U</a> & <a href="#">BP24V28-2U~BP24V28-2U</a> & <a href="#">BP24V36-2US~BP24V36-2US</a> & <a href="#">BP24V70-3U~BP24V70-3U</a> (multi-pack compatible)
DC System Voltage (VDC)	24
Battery Recharge Rate (Included Batteries)	Less than 4.1 hours from 10% to 90% (typical, full load discharge)
Internal UPS Replacement Battery Cartridge	RBC24S
Battery Access	Front panel battery access door
Battery Replacement Description	Hot-swappable, replaceable batteries
Expandable Runtime	Yes
<b>VOLTAGE REGULATION</b>	
Voltage Regulation Description	Online, double-conversion power conditioning
Overvoltage Correction	2% output voltage regulation during overvoltages to 288V
Undervoltage Correction	2% output voltage regulation during undervoltages to 160V (100% load), 130V (70% load), 100V (30% load)
<b>USER INTERFACE, ALERTS &amp; CONTROLS</b>	
Front Panel LCD Display	Interactive front-panel LCD interface reports UPS operating mode, detailed UPS status and site-power information; LCD interface also enables a variety of advanced UPS setup and configuration options
Switches	5 front panel switches: On/Off, Up, Down and Escape
Alarm Cancel Operation	Power-fail alarm can be silenced by following on-screen prompts
Audible Alarm	Audible alarm indicates power failure, low battery, overload and fault
LED Indicators	4 front panel LEDs: AC input (green), AC output (green), Battery (yellow), Fault (red)
<b>SURGE / NOISE SUPPRESSION</b>	
UPS Dataline Suppression Details	Single line dialup / network dataline protection included
EMI / RFI AC Noise Suppression	Yes
AC Suppression Joule Rating	627



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AC Suppression Response Time	Instantaneous
<b>PHYSICAL</b>	
Included Mounting Accessory Description	4 post installation accessories included
Installation Form Factors Supported with Included Accessories	4 post 19 inch rackmount
Installation Form Factors Supported with Optional Accessories	2 post rackmount (2POSTRMKITWM); Tower (2-9USTAND)
Primary Form Factor	Rackmount
UPS Power Module Dimensions (hwd, in.)	3 x 17 x 16
UPS Power Module Dimensions (hwd, cm)	7.62 x 43.18 x 40.64
Rack Height (U Spaces)	2
Minimum Required Rack Depth (inches)	19
Minimum Required Rack Depth (cm)	48.26
UPS Power Module Weight (lbs.)	28
UPS Power Module Weight (kg)	12.70
Shipping Dimensions (hwd / in.)	9.600 x 19.800 x 23.500
Shipping Dimensions (hwd / cm)	24.38 x 50.29 x 59.69
Shipping Weight (lbs.)	44.0000
Shipping Weight (kg)	19.96
Cooling Method	Fan
UPS Housing Material	Metal
Primary UPS Height (mm)	762
Primary UPS Width (mm)	4,318
Primary UPS Depth (mm)	4,064
<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)	245
AC Economy Mode BTU / Hr. (Full Load)	128
Battery Mode BTU / Hr. (Full Load)	500
AC Mode Efficiency Rating (100% Load)	>93%



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AC Economy Mode Efficiency Rating (100% Load)	>96%
Audible Noise	<45dB at front side 1M
<b>COMMUNICATIONS</b>	
Communications Interface	USB (HID enabled); DB9 Serial; Contact closure; EPO (emergency power off); Slot for SNMP/Web interface
PowerAlert Software	Available for download at <a href="http://www.tripplite.com">www.tripplite.com</a>
Communications Cable	USB and DB9 cabling included
WatchDog Compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
<b>LINE / BATTERY TRANSFER</b>	
Transfer Time	No transfer time (0 ms.) in online, double-conversion mode; 3-9 ms. transfer time during economy mode operation
Low Voltage Transfer to Battery Power (Setpoint)	160V (100% load), 140V (66% load), 120V (33% load)
High Voltage Transfer to Battery Power (Setpoint)	288V
<b>SPECIAL FEATURES</b>	
Grounding Lug	Back panel grounding lug included
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
<b>CERTIFICATIONS</b>	
UPS Certifications	CE; ENERGY STAR Qualified; Tested to CSA (Canada); Tested to EAC (Belarus, Kazakhstan, Russia); Tested to SASO (Saudi Arabia); Tested to UL1778 (USA)
UPS Certification Details	IEC62040-1:2008+A1; UL1778 5th; Meets EMI approvals EN62040-2 (Cat C2), FCC Class A
<b>WARRANTY</b>	
Product Warranty Period (Worldwide)	2-year limited warranty
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$250,000 <a class="insuranceLink" href="//www.tripplite.com/support/insurance-policy">Ultimate Lifetime Insurance</a>

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