SmartOnline 208/230V 3kVA 2.7kW Double-Conversion UPS, 2U Rack/Tower, Extended Run, Network Card Slot, LCD, USB, DB9

MODEL NUMBER: **SUINT3000LCD2U**

High-performance on-line double-conversion UPS with interactive LCD interface ideal for any critical voice, data, medical or industrial IT application. Converts AC input to DC and then fully regulated sine wave AC power.

Description

The SUINT3000LCD2U SmartOnline® 3000VA/2700W On-Line Double-Conversion UPS 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. An interactive front-panel LCD interface provides detailed real-time UPS status and advanced setup and configuration options.

In case of AC power outage, the internal batteries support 13.5 minutes of runtime at half load and five minutes at full load. Extended runtime is possible with optional external battery packs. "Smart" battery packs, such as Tripp Lite's BP72V18-2US, are automatically sensed and configured during replacement. An intelligent battery management system extends battery life.

Managing the UPS 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, all while ensuring 100% uptime for your systems.

Power is filtered to protect connected equipment against surges and EMI/RFI line noise that can damage equipment or destroy data. Tested to international and North American CE, IEC62040-1: 2008, UL 1778, CSA, SASO and EAC standards for applications worldwide. Adding an optional network management card permits remote management of the UPS, including reboots and activity logs.

Features
Protects Mission-Critical Rack-Mounted Equipment

- Converts AC input to DC power, then DC to fully regulated sine wave AC output
- +/-2% voltage regulation in online and battery modes
- Selectable 200/208/220/230/240V output voltage
- 3000VA/2700W capacity

Highlights

- Zero transfer time suitable for advanced network applications
- 2% output voltage regulation in online and battery modes
- Selectable 200/208/220/230/240V output voltage
- Features 2 C19 and 8 C13 outlets

Package Includes

- SUINT3000LCD2U SmartOnline 3000VA/2700W On-Line Double-Conversion UPS
- 4-post rack-mount installation kit
- USB cable
- RS-232 cable
- C19-to-C20 power cable
- (2) C13-to-C14 power cables
- Owner's manual

- 2 C19 and 8 C13 outlets

- 570-joule surge suppression rating

- Supports tower installation with 2-9USTAND accessory

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 and high-quality operation as necessary for ideal equipment protection

- Max Efficiency favors economy operation with high 95% 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)

Reliable, Expandable Battery Backup

- Supports half load (1350W) for 13.5 min. and full load (2700W) for 5 min.

- Add external battery packs for extra runtime

- "Smart" battery packs, such as Tripp Lite's BP72V18-2US, are automatically sensed and configured during replacement

- Full 2700W capacity available with and without external battery packs

- Battery independent restart ensures automatic UPS power-up after lengthy power outages, even with expired batteries

Highly Customizable

- Customize communications and behavior to integrate with device makers' specific needs

- 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

- Remote on/off (toggle) support via DB9

Certified for Worldwide Use

- Tested to international and North American CE, IEC62040-1: 2008, UL 1778, CSA, SASO and EAC standards for applications worldwide

Optional Network Management Cards / USB & Serial Ports

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

- USB & Serial ports enable data-saving unattended shutdown when used with Tripp Lite's PowerAlert

software, available via FREE download from www.tripplite.com/poweralert

Specifications

OVERVIEW	
UPC Code	037332185631

OUTPUT	
Output Volt Amp Capacity (VA)	3000
Output kVA Capacity (kVA)	3
Output Watt Capacity (Watts)	2700
Output kW Capacity (kW)	2.7
Output Capacity Details	DE-RATING INFORMATION: Max output in Frequency Conversion mode is reduced to 1890 watts for 208/220/230/240V output voltages; Max output is reduced to 2160W at 200V output voltage in all operating modes 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	(8) C13; (2) C19
Included Output Power Cables	Includes 2 C13 to C14 and 1 C19 to C20 power cables
Load Management Receptacles	Two switchable 4 outlet load banks (3 C13 and 1 C19 per bank)
Output AC Waveform (AC Mode)	Pure Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
Individually Controllable Load Banks	Yes

INPUT	

Rated input current (Maximum Load)	14.97A
Nominal Input Voltage(s) Supported	200V AC; 208V AC; 220V AC; 230V AC; 240V AC
UPS Input Connection Type	C20 inlet
Input Phase	Single-Phase

BATTERY	
Full Load Runtime (min.)	5 min. (2700w)
Half Load Runtime (min.)	13.5 min. (1350w)
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)	3.0 hours from 10% to 90% (typical, full load discharge)
Internal UPS Replacement Battery Cartridge	RBC72S
Battery Access	Front panel battery access door
Battery Replacement Description	Hot-swappable, replaceable batteries
Expandable Runtime	Yes

VOLTAGE REGULATION	
Voltage Regulation Description	Online, double-conversion power conditioning
Overvoltage Correction	2% output voltage regulation during overvoltages to 288
Undervoltage Correction	2% output voltage regulation during undervoltages to 160V (100% load), 130V (70% load), 100V (30% load)

USER INTERFACE, ALERTS & CONTROLS	
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)

SURGE / NOISE SUPPRESSION	
UPS Dataline Suppression Details	Single line dialup / network dataline protection included
EMI / RFI AC Noise Suppression	Yes
AC Suppression Joule Rating	570

AC Suppression Response Time	Instantaneous
PHYSICAL	
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); 2-4 post front rail rackmount (UPSHDEARKIT); Tower (2-9USTAND)
Primary Form Factor	Rackmount
UPS Power Module Dimensions (hwd, in.)	3.46 x 17.24 x 24.25
UPS Power Module Dimensions (hwd, cm)	8.79 x 43.79 x 61.60
Rack Height	2U
Minimum Required Rack Depth without External Battery Pack (cm)	70
Minimum Required Rack Depth with External Battery Pack (cm)	90
Minimum Required Rack Depth without External Battery Pack (in.)	27.75
Minimum Required Rack Depth with External Battery Pack (in.)	35.25
UPS Power Module Weight (lbs.)	68.72
UPS Power Module Weight (kg)	31.17
Shipping Dimensions (hwd / in.)	9.45 x 23.62 x 29.92
Shipping Dimensions (hwd / cm)	24.00 x 59.99 x 76.00
Shipping Weight (lbs.)	84.22
Shipping Weight (kg)	38.20
Cooling Method	Fan
UPS Housing Material	Metal
Primary UPS Height (mm)	88
Primary UPS Width (mm)	438
Primary UPS Depth (mm)	616
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	5 to 95%, non-condensing
AC Mode BTU / Hr. (Full Load)	933

AC Economy Mode BTU / Hr. (Full Load)	485
Battery Mode BTU / Hr. (Full Load)	1399
AC Mode Efficiency Rating (100% Load)	>90%
AC Economy Mode Efficiency Rating (100% Load)	>95%
Audible Noise	<50dB at front side 1M

COMMUNICATIONS

Communications Interface	USB (HID enabled); DB9 Serial; Contact closure; EPO (emergency power off); Slot for SNMP/Web interface
Network Management Cards	SNMPWEBCARD; WEBCARDLX
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; 4 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

SPECIAL FEATURES

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

CERTIFICATIONS

UPS Certifications	CE; Meets FCC Part 15 Category A (EMI); Tested to CSA (Canada); Tested to EAC (Belarus, Kazakhstan, Russia); Tested to SASO (Saudi Arabia); Tested to UL1778 (USA)
UPS Certification Details	Meets EMI approvals IEC62040-2:2006; FCC Part 15

WARRANTY

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