

SmartOnline 230V 2kVA 1800W On-Line Double-Conversion UPS, Tower, Extended Run, Network Card Options, LCD, USB, DB9

MODEL NUMBER: **SUINT2000XLCD**



Highlights

- Zero transfer time suitable for advanced network applications
- 2% output voltage regulation in online, double-conversion mode
- Expandable runtime with optional external battery packs
- Interactive LED/LCD status display
- 12 min. runtime at half load; 4.7 min. at full load

Package Includes

- SUINT2000XLCD SmartOnline 230V 2kVA 1800W On-Line Double-Conversion UPS
- USB cable
- RS-232 cable
- (3) C13-to-C14 power cords
- Owner's manual

Description

The SUINT2000XLCD SmartOnline® 230V 2kVA 1800W 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, double-conversion mode.

Featuring seven C13 outlets, the SUINT2000XLCD has an internal battery that provides 12 minutes of support at half load (900W) and 4.7 minutes at full load (1800W). Adding external battery packs, such as [BP48V24-2U](#) (sold separately), provides extended runtime. Operating in optional economy mode reduces heat output and cooling requirements and consumes less electricity.

An interactive front-panel LCD screen displays operating conditions and diagnostic data, such as load, voltage and battery levels. An audible alarm signals UPS startup, power failure, low battery, overload, UPS fault and remote shutdown conditions.

EMI/RFI line noise filtering improves your equipment's performance, and 425-joule surge suppression prevents equipment and data damage from harmful power surges. With Tripp Lite's PowerAlert® software, the SUINT2000XLCD enables safe unattended system shutdown and file saves in case of a prolonged power failure. A built-in card slot supports [TLNETCARD](#), [WEBCARDLX](#), [SNMPWEBCARD](#), [MODBUSCARD](#) and [RELAYIOCARD](#) for network interface and remote monitoring and control.

Features

Protects Mission-Critical Rack-Mounted Equipment

- Provides fully regulated sine wave AC output for small/medium servers, networking equipment and telecom systems
- +/-2% voltage regulation in online, double-conversion mode
- 230V output voltage
- High 0.9 power factor offers 2000VA/1800W output capacity
- 7 C13 outlets; C14 input connection
- Set of 3 C13/C14 jumpers included



- 425-joule surge suppression rating

Reliable Battery Backup with Expandable Runtime

- Supports half load for 12 min. and full load for 4.7 min.
- Zero transfer time suitable for advanced network applications
- Expandable runtime with optional external battery packs, such as Tripp Lite's [BP48V24-2U](#)
- Restarts automatically after lengthy power outages

SNMP/Web Capability

- Built-in slot for SNMP network interface and relay card for remote monitoring and control options
- Compatible with [TLNETCARD](#), [WEBCARDLX](#), [SNMPWEBCARD](#), [MODBUSCARD](#) and [RELAYIOCARD](#)

EMI/RFI Line Noise Filtering

- Removes electromagnetic and radio frequency interference that can disrupt or damage equipment's performance

Interactive LCD Screen

- Reports detailed status information, including load, voltage and battery levels

Audible Alarm

- Indicates startup/shutdown, power failure, low battery, overload and fault conditions

Communications Ports

- 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

Optional Economy Mode

- Efficiently minimizes heat output, reduces cooling requirements and consumes less electricity

Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	2000
Output kVA Capacity (kVA)	2
Output Watt Capacity (Watts)	1800
Output kW Capacity (kW)	1.8
Output Capacity Details	OVERLOAD CAPACITY: Supports inverter operation up to 105% load continuously, 125% load for 1 minute; 150% load for 30 seconds; Loads greater than 150% trigger immediate switchover to BYPASS (when input voltage and frequency are WITHIN bypass limits) or SHUTDOWN (when input voltage and frequency are OUTSIDE bypass limits)
Power Factor	0.9
Crest Factor	3:1
Nominal Output Voltage(s) Supported	220V; 230V; 240V



Nominal Voltage Details	230V default
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 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.</p>
Output Voltage Regulation (Line Mode)	+/- 2%
Output Voltage Regulation (Economy Line Mode)	+/- 10%
Output Voltage Regulation (Battery Mode)	+/- 3%
Output Receptacles	(7) C13
Included Output Power Cables	Includes three C13 to C14 power cables
Output AC Waveform (AC Mode)	Pure Sine wave
Output AC Waveform (Battery Mode)	Pure Sine wave
INPUT	
Rated input current (Maximum Load)	9.8A 220V; 9.3A 230V; 8.9A 240V
Nominal Input Voltage(s) Supported	220V AC; 230V AC; 240V AC
Nominal Input Voltage Description	230V factory default
UPS Input Connection Type	C14 inlet
Input Circuit Breakers	20A
UPS Input Cord Length (ft.)	10
UPS Input Cord Length (m)	3.0
Recommended Electrical Service	230V
Input Phase	Single-Phase
BATTERY	
Full Load Runtime (min.)	4.7 min. (1800w)
Half Load Runtime (min.)	12 min. (900w)
Expandable Battery Runtime	Extended runtime supported via optional external battery packs
External Battery Pack Compatibility	BP48V24-2U(limit 1); BP48V27-2US(multi-pack compatible); BP48V60RT-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)	48
Battery Recharge Rate (Included Batteries)	Less than 5.4 hours from 10% to 90% (typical, full load discharge)



Expandable Runtime	Yes
VOLTAGE REGULATION	
Voltage Regulation Description	Online, double-conversion power conditioning
Overvoltage Correction	2% output voltage regulation during overvoltages to 280
Undervoltage Correction	2% output voltage regulation during undervoltages to 80V (50% load), 175V (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 information
Switches	ON switch supports inverter-on, battery-test, alarm-off and enter functions; OFF switch supports inverter-off and fault-clear functions; SETUP switch enables scroll-down and enter setup-mode functions
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	425
UPS AC Suppression Response Time	Instantaneous
EMI / RFI AC Noise Suppression	Yes
PHYSICAL	
Primary Form Factor	Tower
UPS Power Module Dimensions (hwd, in.)	12.8 x 7.5 x 14.2
UPS Power Module Weight (lbs.)	43.1
UPS Power Module Weight (kg)	19.55
UPS Shipping Dimensions (hwd / in.)	17.4 x 11.8 x 19.9
Shipping Weight (lbs.)	48.8
Shipping Weight (kg)	22.2
Cooling Method	Fan
UPS Housing Material	Steel
Primary UPS Height (mm)	325
Primary UPS Width (mm)	190
Primary UPS Depth (mm)	361
UPS Power Module Dimensions (hwd, mm)	325 x 190 x 361
Shipping Height (mm)	442



Shipping Width (mm)	300
Shipping Depth (mm)	505
UPS Shipping Dimensions (hwd / mm)	442 x 300 x 505
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)	657
AC Economy Mode BTU / Hr. (Full Load)	256
Battery Mode BTU / Hr. (Full Load)	1171
AC Mode Efficiency Rating (100% Load)	90%
AC Economy Mode Efficiency Rating (100% Load)	96%
Operating Elevation (ft.)	0-3000ft
Audible Noise	< 50 dB at front side 1m
Operating Elevation (m)	0-1000m
COMMUNICATIONS	
Communications Interface	DB9 Serial; Slot for SNMP/Web interface; USB (HID enabled)
Network Management Cards	SNMPWEBCARD ; TLNETCARD ; WEBCARDLX ; MODBUSCARD ; RELAYIOCARD
Network Monitoring Port Description	Supports detailed monitoring of UPS and site power conditions
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
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)	80V (<50% load), 175V (100% load)
High Voltage Transfer to Battery Power (Setpoint)	280
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
CERTIFICATIONS	
UPS Certifications	CE
UPS Certification Details	IEC 62040-1;2008+A1:2013; EN62040-2:2006; ESD:IEC61000-4-2:LEVEL 4, RS:IEC61000-4-3:LEVEL 3, EFT:IEC61000-4-4:LEVEL 2, SURGE: IEC61000-4-5:LEVEL 2, CS:IEC61000-4-6:LEVEL 3, CONDUCTED MAGNETIC FIELD: IEC61000-4-8:LEVEL 4
WARRANTY	
Product Warranty Period (Worldwide)	2-year limited warranty

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