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
- Add optional WEBCARDLX with latest version of PADM20 for enhanced remote management
- 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

Protects connected mission-critical equipment against damage, downtime and data loss due to blackouts, brownouts, power surges and line noise. Recommended for small/medium servers, networking equipment and telecom systems.

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 BP48V27-2US (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 mode230V output voltageHigh 0.9 power factor offers 2000VA/1800W output capacity7 C13 outlets; C14 input connectionSet of 3 C13/C14 jumpers included425-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 applicationsExpandable runtime with optional external battery packs, such as Tripp Lite's BP48V27-2USRestarts automatically after lengthy power outages

SNMP/Web Capability Built-in slot for SNMP network interface and relay card for remote monitoring and control optionsCompatible with TLNETCARD, WEBCARDLX, SNMPWEBCARD, MODBUSCARD and RELAYIOCARDOptional WEBCARDLX (sold separately) with the latest version of PowerAlert Device

Manager firmware (PADM20) provides enhanced remote management capabilitiesPADM20 and PowerAlert Element Manager (PAEM) form a powerful tool for expanding maintenance functions in large installations, including firmware update checks and backup and restoration of device configurations

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 PortsUSB & 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

OVERVIEW	
UPC Code	037332194886
UPS Type	On-Line

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)	3.1
Recommended Electrical Service	230V
Input Phase	Single-Phase

OUTPUT	
Output Volt Amp Capacity (VA)	2000
Output 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 Voltage Details	230V default
Frequency Compatibility	50 / 60 Hz
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; 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%
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
Nominal Output Voltage(s) Supported	220V; 230V; 240V
Output Receptacles	(7) C13
Individually Controllable Load Banks	No
BATTERY	
Battery Type	Valve Regulated Lead Acid (VRLA)
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
Expandable Runtime	Yes
Expandable Runtime Description	External battery configurations require the use of Tripp Lite's External Battery Configuration Software, see manual for details
External Battery Pack Compatibility	BP48V27-2US (multi-pack compatible); BP48V60RT-3U (multi-pack compatible)
DC System Voltage (VDC)	48
Battery Recharge Rate (Included Batteries)	Less than 5.4 hours from 10% to 90% (typical, full load discharge)
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, 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
Cooling Method	Fan
Installation Form Factors Supported with Included Accessories	Tower
Primary UPS Depth (mm)	361
Primary UPS Height (mm)	325
Primary UPS Width (mm)	191
Shipping Dimensions (hwd / cm)	44.20 x 29.72 x 49.28
Shipping Dimensions (hwd / in.)	17.40 x 11.70 x 19.40
Shipping Weight (kg)	24.32
Shipping Weight (lbs.)	53.62
UPS Housing Material	Steel
UPS Power Module Dimensions (hwd, in.)	12.8 x 7.5 x 14.2
UPS Power Module Weight (kg)	19.55
UPS Power Module Weight (lbs.)	43.1

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%
Audible Noise	< 50 dB at front side 1m

COMMUNICATIONS

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 https://www.tripplite.com/poweralert
Communications Cable	USB and DB9 cabling included
Network Management Card Description	Network management card optional
Communications Interface	DB9 Serial; Slot for SNMP/Web interface; USB (HID enabled)

LINE / BATTERY TRANSFER

Transfer Time	Zero transfer time (0 ms.)
Low Voltage Transfer to Battery Power (Setpoint)	80V (<50% load), 175V (100% load)
High Voltage Transfer to Battery Power (Setpoint)	280

FEATURES & SPECIFICATIONS

Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Auto Probe Monitoring (requires WEBCARDLX); Automatic inverter bypass; Expandable battery backup; Hot swappable batteries; On-Line/Double-Conversion; Remote management; Sine wave output; Surge/noise protection; Zero transfer time
Green Energy-Saving Features	High efficiency economy mode operation

STANDARDS & COMPLIANCE

Certification & Compliance	RoHS; CE (Europe)

WARRANTY

Product Warranty Period (Worldwide)	2-year limited warranty