

## SmartOnline 230V 2kVA 1.4kW Double-Conversion UPS, Tower, Network Card Options, C20 inlet, DB9 Serial

MODEL NUMBER: **SUINT2000XL**



### Description

Tripp Lite's SmartOnline SUINT2000XL on-line, double-conversion UPS protects critical server, networking and telecommunications equipment from blackouts, voltage fluctuations and transient surges. Space-saving upright tower format. Large capacity 2000VA/1400W UPS continuously converts incoming AC to DC, then back to perfect sine wave AC output at selectable 220/230/240V AC (+/-2%). Removes harmonic distortion, fast electrical impulses, frequency fluctuations and other hard-to-solve power problems not addressed by other UPS types. True sine wave output and zero transfer time offer guaranteed compatibility with all equipment types. Includes 8 C13 outlets. Battery support can be extended with external battery packs. Includes slot for internal network management card, plus DB9 enhanced serial monitoring port for unattended shutdown, remote control and monitoring of UPS system and power data.

### Features

- True on-line, double conversion UPS provides pure sine wave AC output at all times
- Maintains continuous operation with zero transfer time through blackouts, voltage fluctuations and surges
- Removes harmonic distortion, electrical impulses, frequency variations and other hard-to-solve power problems
- Corrects brownout and overvoltages from 175-280V at full load. Input voltage range extends to 80-280V at 50% load or less
- 2000VA/1400W power capacity with 8 C13 outlets
- IEC320-C20 input connection accepts a variety of detachable cordsets to match country or site-specific wall receptacles
- Standard internal battery set provides 14 min. runtime at half load and 5 min. runtime at full load

### Highlights

- 2000VA on-line, double-conversion, extended run tower UPS
- Maintains sine-wave 220/230/240V +/-2% output during overvoltages to 280V and brownouts as low as 80V (50/60Hz auto-sensing)
- Network communications supported via serial port and Network management card options
- C20 inlet, C13 outlets, 3 C13 to C14 power cables included
- Fault-tolerant auto-bypass and current monitoring

### Package Includes

- SUINT2000XL UPS System
- DB9 serial cable
- 3 C13-to-C14 jumper cables
- Owner's manual with warranty information



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- Intelligent battery management system extends battery life
- Expandable runtime with optional external battery packs
- DB9 serial port for network interface; SNMP compatible
- Compatible with Tripp Lite UPS management card options TLNETCARD, WEBCARDLX, SNMPWEBCARD, MODBUSCARD and RELAYIOCARD
- Serial port enables data-saving unattended shutdown when used with Tripp Lite's PowerAlert software, available via FREE download from [www.tripplite.com/poweralert](http://www.tripplite.com/poweralert)
- Fault tolerant electronic bypass maintains utility output during a variety of UPS fault conditions
- Diagnostic LEDs
- Optional PDUBHV20 bypass PDU enables hot-swappable UPS replacement with no disruption to connected equipment
- 3 C13-to-C14 power cables included

## Specifications

| OVERVIEW                                      |                                                                                    |
|-----------------------------------------------|------------------------------------------------------------------------------------|
| UPC Code                                      | 037332128591                                                                       |
| OUTPUT                                        |                                                                                    |
| Output Volt Amp Capacity (VA)                 | 2000                                                                               |
| Output kVA Capacity (kVA)                     | 2                                                                                  |
| Output Watt Capacity (Watts)                  | 1400                                                                               |
| Output kW Capacity (kW)                       | 1.4                                                                                |
| Power Factor                                  | 0.7                                                                                |
| Crest Factor                                  | 3:1                                                                                |
| Nominal Output Voltage(s) Supported           | 220V; 230V; 240V                                                                   |
| Nominal Voltage Details                       | 230V default                                                                       |
| Frequency Compatibility                       | 50 / 60 Hz                                                                         |
| Frequency Compatibility Details               | Output frequency matches input nominal on startup, defaults to 50 Hz on cold-start |
| Output Voltage Regulation (Line Mode)         | +/- 2%                                                                             |
| Output Voltage Regulation (Economy Line Mode) | +/- 10%                                                                            |
| Output Voltage Regulation (Battery Mode)      | +/- 2%                                                                             |
| Output Receptacles                            | (8) C13                                                                            |
| Included Output Power Cables                  | Includes 3 C13 to C14 output power cables                                          |



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|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hot-Swap PDU options                         | PDUBHV20 (2U / 6 C13, 2 C19 outlets)                                                                                                                                                                            |
| Output AC Waveform (AC Mode)                 | Sine wave                                                                                                                                                                                                       |
| Output AC Waveform (Battery Mode)            | Pure Sine wave                                                                                                                                                                                                  |
| <b>INPUT</b>                                 |                                                                                                                                                                                                                 |
| Rated input current (Maximum Load)           | 7.4A (220V), 7.1A (230V), 6.8 (240V)                                                                                                                                                                            |
| Nominal Input Voltage(s) Supported           | 220V AC; 230V AC; 240V AC                                                                                                                                                                                       |
| UPS Input Connection Type                    | C20 inlet                                                                                                                                                                                                       |
| UPS Input Connection Description             | IEC320-C20 input connection accepts a variety of detachable cordsets to match country or site-specific wall receptacles                                                                                         |
| Input Circuit Breakers                       | 20A                                                                                                                                                                                                             |
| Input Phase                                  | Single-Phase                                                                                                                                                                                                    |
| <b>BATTERY</b>                               |                                                                                                                                                                                                                 |
| Full Load Runtime (min.)                     | 5 min. (1400w)                                                                                                                                                                                                  |
| Half Load Runtime (min.)                     | 14 min. (700w)                                                                                                                                                                                                  |
| Expandable Battery Runtime                   | Extended runtime supported via optional external battery packs                                                                                                                                                  |
| External Battery Pack Compatibility          | <a href="#">BP72V15-2U~BP72V15-2U</a> & <a href="#">BP72V28RT-3U~BP72V28RT-3U</a> (multi-pack compatible)                                                                                                       |
| DC System Voltage (VDC)                      | 72                                                                                                                                                                                                              |
| Battery Recharge Rate (Included Batteries)   | Less than 4 hours from 10% to 90% (typical, full load discharge)                                                                                                                                                |
| Battery Replacement Description              | Hot-swappable, user 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 280                                                                                                                                                         |
| Undervoltage Correction                      | 2% output voltage regulation during undervoltages to 175                                                                                                                                                        |
| Severe Undervoltage Correction               | 2% output voltage regulation during undervoltages to 80 (under 50% load only)                                                                                                                                   |
| <b>USER INTERFACE, ALERTS &amp; CONTROLS</b> |                                                                                                                                                                                                                 |
| Switches                                     | 2 Switches control off/on power status and alarm-cancel/self-test operation                                                                                                                                     |
| Alarm Cancel Operation                       | Power-fail alarm can be silenced using alarm-cancel switch                                                                                                                                                      |
| Audible Alarm                                | Audible alarm indicates UPS startup, power-failure, low-battery, overload, UPS fault and remote shutdown conditions                                                                                             |
| LED Indicators                               | 14 LEDs indicate line power, online mode, economy/bypass mode, on-battery, overload, battery low, replace battery and fault status information - includes 4-LED meter display for load and battery charge level |



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| SURGE / NOISE SUPPRESSION                     |                                                            |
|-----------------------------------------------|------------------------------------------------------------|
| UPS AC Suppression Joule Rating               | 570                                                        |
| UPS AC Suppression Response Time              | Instantaneous                                              |
| EMI / RFI AC Noise Suppression                | Yes                                                        |
| PHYSICAL                                      |                                                            |
| Primary Form Factor                           | Tower                                                      |
| UPS Power Module Dimensions (hwd, in.)        | 14.7 x 5.5 x 16.7                                          |
| UPS Power Module Dimensions (hwd, cm)         | 37.34 x 13.97 x 42.42                                      |
| UPS Power Module Weight (lbs.)                | 67.2                                                       |
| UPS Power Module Weight (kg)                  | 30.48                                                      |
| Shipping Dimensions (hwd / in.)               | 18.900 x 9.800 x 23.300                                    |
| Shipping Dimensions (hwd / cm)                | 48.01 x 24.89 x 59.18                                      |
| Shipping Weight (lbs.)                        | 65.4000                                                    |
| Shipping Weight (kg)                          | 29.66                                                      |
| Cooling Method                                | Fan                                                        |
| UPS Housing Material                          | Steel                                                      |
| Primary UPS Height (mm)                       | 3,734                                                      |
| Primary UPS Width (mm)                        | 1,397                                                      |
| Primary UPS Depth (mm)                        | 4,242                                                      |
| 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)                 | 523                                                        |
| Battery Mode BTU / Hr. (Full Load)            | 749                                                        |
| AC Mode Efficiency Rating (100% Load)         | 90%                                                        |
| AC Economy Mode Efficiency Rating (100% Load) | 94%                                                        |
| Audible Noise                                 | < 45 dB at front side 1m                                   |
| COMMUNICATIONS                                |                                                            |
| Communications Interface                      | DB9 Serial; Slot for SNMP/Web interface                    |



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|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network Management Cards                                    | SNMPWEBCARD; TLNETCARD; WEBCARDLX; MODBUSCARD; &nbsp;<a class="productLink" href="http://www.tripplite.com/Programmable-Relay-I-O-Card-RELAYIOCARD">RELAYIOCARD</a>&nbsp;                    |
| Network Monitoring Port Description                         | Supports detailed monitoring of UPS and site power conditions; DB9 port supports RS232 communications                                                                                        |
| PowerAlert Software                                         | For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at <a href="http://www.tripplite.com/poweralert">http://www.tripplite.com/poweralert</a> |
| Communications Cable                                        | DB9 cabling included                                                                                                                                                                         |
| <b>LINE / BATTERY TRANSFER</b>                              |                                                                                                                                                                                              |
| Transfer Time                                               | No transfer time (0 ms.) in online, double-conversion mode                                                                                                                                   |
| Low Voltage Transfer to Battery Power (Setpoint)            | 175V (100% load), 80V ( <50% load)                                                                                                                                                           |
| High Voltage Transfer to Battery Power (Setpoint)           | 280                                                                                                                                                                                          |
| <b>SPECIAL FEATURES</b>                                     |                                                                                                                                                                                              |
| Cold Start (Startup in Battery Mode During a Power Failure) | Cold-start operation supported                                                                                                                                                               |
| High Availability UPS Features                              | Automatic inverter bypass                                                                                                                                                                    |
| <b>CERTIFICATIONS</b>                                       |                                                                                                                                                                                              |
| UPS Certifications                                          | CE                                                                                                                                                                                           |
| UPS Certification Details                                   | CE EN62040-1-1, EN62040-2 Class A                                                                                                                                                            |
| <b>WARRANTY</b>                                             |                                                                                                                                                                                              |
| Product Warranty Period (Worldwide)                         | 2-year limited warranty                                                                                                                                                                      |

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