

## SmartPro Medical Grade 1kVA 230V Line interactive Tower UPS, Extended-run, full isolation, USB and Serial ports

MODEL NUMBER: **SMX1200XLHG**



### Description

Tripp Lite's SMX1200XLHG offers medical-grade UPS protection with built-in line-interactive voltage regulation, expandable battery runtime and intelligent monitoring with unattended shutdown capability. Tested to CE/IEC 60601-1 standard as medical electrical equipment. Built-in isolation transformer with Faraday shield offers full line isolation and removes common mode noise while maintaining full AC surge suppression in all modes. Includes high quality hospital-grade plug and outlets. Resistant to electrostatic discharge. 1000VA power handling capacity supports computers, inter-networking equipment and other critical loads during commercial power failures. External battery connector allows configuration for up to several hours of runtime during power failures by adding one or more external battery packs BP36V15-2U (limit 1), BP36V42-3U (multi-pack compatible) and BP36V27-2US (multi-pack compatible). Line interactive voltage regulation corrects brownouts as low as 155V and overvoltages as high as 274V back to normal 230V levels, saving battery reserves for use only during complete power failures. Includes diagnostic LEDs and 2 built-in communications ports (1 USB, 1 DB9) that work with included PowerAlert Software and cabling to provide automatic unattended shutdown of connected network and PC applications.

### Features

- Ideal UPS protection for applications in medical patient-care areas where CE/IEC 60601-1 listed medical electrical equipment is required
- Built-in isolation transformer with Faraday shield offers full isolation and removes common mode noise while maintaining full AC surge suppression in all modes
- Provides connected equipment with continuous power during short and long duration loss of commercial power
- Expandable runtime is available with the addition of one or more external battery packs BP36V15-2U (limit 1), BP36V42-3U (multi-pack compatible) and BP36V27-2US (multi-pack compatible)
- Line-interactive voltage regulation corrects brownouts and overvoltages from 155 to 274 volts back to usable 230V output levels, without using battery power
- Full line isolation prevents shock potential and operational problems in sensitive electronic equipment
- Resistant to electrostatic discharge

### Highlights

- 1000VA / 1kVA line interactive, extended run tower UPS
- Maintains 230V nominal output over an input range of 155 to 274V
- Professional features include serial port, IEC320 plug & outlets, built-in isolation transformer
- Input: IEC C14 inlet (230V 5A) / Output: 6 IEC C13 (230V)

### Applications

CE/IEC 60601-1 compliant UPS provides ultimate safety and reliability for patient point of care solutions, telemedicine, nurse's stations, wireless communications systems, electronic prescribing applications, medical imaging and mission critical equipment. Not recommended for life support applications

### Package Includes

- SMX1200XLHG Medical Grade Tower UPS System
- PowerAlert Software and cabling
- Warranty information
- Instruction manual



- Supports loads up to 1000VA/750W
- 27.5 min. half-load runtime (500VA/375W), 11 min. full load runtime (1000VA/750W)
- 6 protected outlets; 6-inch dongle with IEC C14 inlet
- USB and DB9 communication ports
- PowerAlert unattended shutdown software and complete cabling included
- Complete surge protection, line isolation and EMI/RFI noise filtering
- 5 diagnostic LEDs indicate AC present, on battery, voltage correction, overload & battery low/replace
- Battery replacement door and back panel equipotential connection

## Specifications

General Info	
Product Group	UPS SYSTEMS
OUTPUT	
Output Volt Amp Capacity (VA)	1000
Output Watt Capacity (Watts)	750
Nominal Output Voltage(s) Supported	220V; 230V; 240V
Nominal Voltage Details	230v nominal inverter output voltage
Frequency Compatibility	50 / 60 Hz
Frequency Compatibility Details	Automatic frequency selection
Output Voltage Regulation (Line Mode)	-18%, +8%
UPS Output Receptacles	6 C13 outlet(s)
INPUT	
Rated input current (Maximum Load)	5A
Nominal Input Voltage(s) Supported	230V AC
UPS Input Connection Type	C14 inlet
UPS Input Cord Length (ft.)	6 inch dongle, 16 gauge
UPS Input Cord Length (m)	1.83
Recommended Electrical Service	10A 230V
Voltage Compatibility (VAC)	230
Input Phase	Single-Phase
BATTERY	
Full Load Runtime (min.)	11 min. (750w)
Half Load Runtime (min.)	27.5 min. (375w)



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Expandable Battery Runtime	Supports extended runtime with optional BP36V15-2U (limit 1) and BP36V42-3U external battery pack (multi-pack compatible)
External Battery Pack Compatibility	BP36V15-2U (limit 1); BP36V42-3U (multi-pack compatible); BP36V27-2US (multi-pack compatible)
DC System Voltage (VDC)	36
Battery Recharge Rate (Included Batteries)	Less than 4.5 hours from 10% to 90%
Internal UPS Replacement Battery Cartridge	RBC53
Battery Access	Battery access door allows hot swap battery replacement without powering connected equipment off
Typical Battery Lifespan	3-6 years, depending on usage
<b>VOLTAGE REGULATION</b>	
Voltage Regulation Description	Line interactive UPS offers 2 boost levels of brownout correction and a single level of overvoltage adjustment to maintain usable, computer grade output without consuming battery power over an input voltage range of 155 to 274V AC.
Overvoltage Correction	Input voltages between 245 and 274V AC are reduced by 9%
Undervoltage Correction	Input voltages between 183 and 199 are boosted by 10%
Severe Undervoltage Correction	Input voltages between 156 and 182 are boosted by 21%
Direct Pass Through	Input voltages between 200 and 244V AC are passed through unchanged
<b>LEDS ALARMS &amp; SWITCHES</b>	
LED Indicators	5 LEDs indicate line power, battery power, overload, voltage regulation and battery low/replace status
Audible Alarm	3 function audible alarm indicates power failure conditions (4 short beeps every 10 seconds), overload (continuous short beeps) and low battery (continuous tone)
Switches	Yes, includes 2 front panel mounted push-button switches for system enable, self-test and alarm cancel functions
<b>SURGE / NOISE SUPPRESSION</b>	
UPS AC Suppression Joule Rating	340 joules
EMI / RFI AC Noise Suppression	Yes
AC Suppression Response Time	Instantaneous
<b>PHYSICAL</b>	
Installation Form Factors Supported with Included Accessories	Tower
Installation Form Factors Supported with Optional Accessories	Wallmount (UPSWM - tower mounting kit)
UPS Power Module Dimensions (hwd, in.)	12.7 x 7.5 x 9.1
UPS Power Module Dimensions (hwd, cm)	32.3 x 19 x 23.1
UPS Power Module Weight (lbs.)	45.5



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UPS Power Module Weight (kg)	20.7
UPS Shipping Dimensions (hwd / in.)	18.5 x 12.2 x 13.4
UPS Shipping Dimensions (hwd / cm)	47 x 31 x 34
Shipping Weight (lbs.)	48.8
Shipping Weight (kg)	22
Cooling Method	UPS cooling via rear-exit fan
UPS Housing Material	PVC
<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	0 to 95%, non-condensing
AC Mode BTU / Hr. (Full Load)	252.2
Battery Mode BTU / Hr. (Full Load)	252.2
<b>COMMUNICATIONS</b>	
Communications Interface	USB; DB9 Serial
Software & Cabling Included	PowerAlert UPS monitoring software is included on CD-ROM for all common network and standalone operating systems. Ships with 2 cables, 1-USB to USB & 1-DB9 to DB9
<b>LINE / BATTERY TRANSFER</b>	
Transfer Time	2-4 milliseconds
Low Voltage Transfer to Battery Power (Setpoint)	155
High Voltage Transfer to Battery Power (Setpoint)	274
<b>SPECIAL FEATURES</b>	
Grounding Lug	Back panel grounding lug (equipotential connection)
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
Appearance	Attractive gray tower UPS
<b>CERTIFICATIONS</b>	
Certifications	Tested to CE, IEC 60601-1 (Medical), Class B (Emissions)
<b>WARRANTY</b>	
Product Warranty Period (International)	2-year limited warranty



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Product Warranty Period (Mexico)	2-year limited warranty
Product Warranty Period (Puerto Rico)	2-year limited warranty

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