



## Model #: SMART1200XLHG

### SmartPro XL Medical Grade UPS System - Intelligent, line-interactive power management system



#### Highlights

- 1000VA / 1kVA line interactive, extended run tower UPS
- Maintains 120V nominal output over an input range of 82 to 142V
- Professional features include serial port, hospital grade plug & outlets, built-in isolation transformer and UL 60601-1 listing
- Input: Hospital-grade NEMA 5-15P (120V 15A) / Output: 4 Hospital-grade NEMA 5-15R (120V)
- 2 year product warranty

#### Description

Tripp Lite's SMART 1200XLHG offers medical-grade UPS protection with built-in line-interactive voltage regulation, expandable battery runtime and intelligent monitoring with unattended shutdown capability. UL 60601-1 listed 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 or BP36V42-3U multi-pack compatible). Line interactive voltage regulation corrects brownouts as low as 81V and overvoltages as high as 143V back to normal 120V 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.

#### Applications

UL 60601-1 listed 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

- SMART 1200XLHG Medical Grade Tower UPS System
- PowerAlert Software and cabling
- Warranty information
- Instruction manual

#### Features

- Ideal UPS protection for applications in medical patient-care areas where UL 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 or BP36V42-3U multi-pack compatible)
- Line-interactive voltage regulation corrects brownouts and overvoltages from 81 to 143 volts back to usable 120V output levels, without using

battery power

Hospital-grade plug and outlets offer added degree of safety and reliability to input/output connections

Full line isolation prevents shock potential and operational problems in sensitive electronic equipment

Resistant to electrostatic discharge

Supports loads up to 1000VA/750W

28 min. half-load runtime (500VA/375W), 10 min. full load runtime (1000VA/750W)

4 protected hospital-grade outlets; 6-ft. cord

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 grounding lug

2-year product warranty

## Specifications

SYSTEM OVERVIEW	
Voltage compatibility	120V AC
Frequency compatibility	60 Hz
OUTPUT	
Output VA	1000
Output watts	750
Output nominal voltage	120V AC
Output voltage regulation	LINE MODE: Sine wave line voltage 120V (-18% / +8%) BATTERY MODE: PWM sine wave output 115V +/-5%
Output frequency regulation	LINE MODE: Passes line frequency of 60Hz +/-10% BATTERY MODE: Inverter output regulated to 60Hz +/-0.5Hz
Outlet quantity / type	4 NEMA 5-15R-HG Hospital-Grade
Overload protection	Resettable circuit breaker
INPUT	
Maximum input amps	9.2A / 860 watts
Input connection type	NEMA 5-15P-HG Hospital-Grade
Input cord length	6 ft., 14 gauge
Recommended Electrical Service	15A 120V
BATTERY	
Full load runtime	10 min. (1000VA)
Half load runtime	28 min. (500VA)
Expandable battery runtime	Supports extended runtime with optional BP36V27 external battery pack (multi-pack compatible)
DC system voltage	36V DC
Typical battery lifespan	3-6 years, depending on usage
Battery recharge rate	2-4 hours to 90%
VOLTAGE REGULATION	
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 81 to 143V AC.
Overvoltage correction	Input voltages between 126 and 143V AC are reduced by 9%

<b>Direct pass through</b>	Input voltages between 105 and 125V AC are passed through unchanged
<b>Brownout correction</b>	Input voltages between 96 and 106V AC are boosted by 10%
<b>Severe brownout correction</b>	Input voltages between 81 and 95V AC are boosted by 21%
<b>LEDS ALARMS &amp; SWITCHES</b>	
<b>Front panel LEDs</b>	Yes, includes 5 front-panel indicator LEDs to show battery charge level, AC line voltage levels, automatic voltage regulation status, UPS load level and replace battery warning
<b>Alarms</b>	3 function audible alarm indicates power failure conditions (4 short beeps every 10 seconds), overload (continuous short beeps) and low battery (continuous tone)
<b>Switches</b>	Yes, includes 2 front panel mounted push-button switches for system enable, self-test and alarm cancel functions
<b>SURGE / NOISE SUPPRESSION</b>	
<b>AC surge suppression</b>	480 joules
<b>AC suppression response time</b>	Instantaneous
<b>EMI / RFI AC noise suppression</b>	Yes
<b>PHYSICAL</b>	
<b>Shipping weight (lbs)</b>	49.2
<b>Shipping weight (kg)</b>	22.4
<b>Shipping Dimensions (HWD/in)</b>	18.25 x 11.75 x 13.5
<b>Shipping Dimensions (HWD/cm)</b>	46.4 x 29.9 x 34.3
<b>Unit weight (lbs)</b>	45.2
<b>Unit weight (kg)</b>	20.5
<b>Unit Dimensions (HWD/in)</b>	12.5 x 7.5 x 9.5
<b>Unit Dimensions (HWD/cm)</b>	31.75 x 19.1 x 24.2
<b>Material of construction</b>	PVC
<b>Form factors supported</b>	Tower
<b>Cooling method</b>	UPS cooling via rear-exit fan
<b>Battery Access</b>	Battery access door allows hot swap battery replacement without powering connected equipment off
<b>ENVIRONMENTAL</b>	
<b>Operating Temperature</b>	+32 to +104 degrees Fahrenheit
<b>Storage Temperature</b>	+5 to +122 degrees Fahrenheit
<b>Relative Humidity</b>	0 to 95%, non-condensing
<b>COMMUNICATIONS</b>	
<b>Network monitoring port</b>	1 USB & 1 DB9
<b>Software and cabling included</b>	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>	
<b>Transfer time from line power to battery mode</b>	2-4 milliseconds

<b>Low voltage transfer to battery power</b>	81V (resets to line power as voltage increases to 85V)
<b>High voltage transfer to battery power</b>	143V (resets to line power as voltage decreases to 139V)
<b>SPECIAL FEATURES</b>	
<b>Cold Start</b>	Yes, inverter can be cold started to enable temporary AC output during a power failure
<b>Appearance</b>	Attractive gray tower UPS
<b>BATTERY PACK ACCESSORY (optional)</b>	
<b>Battery Pack Accessory (optional)</b>	BP36V27 (optional)
<b>CERTIFICATIONS</b>	
<b>Certifications</b>	Tested to UL1778 (USA, Series AGSM1200PSR3HG), UL 60601-1 (Medical), cUL (Canada), Class A (Emissions)
<b>WARRANTY</b>	
<b>Product warranty</b>	2 year product warranty
<b>Optional coverage</b>	3-year, 5-year, next day and on-site warranty coverage available in many areas; contact Tripp Lite

## Related Items

<b>Cables and Accessories</b>		
N001-014-BK	14-ft. Black Snagless Cat5e Molded Patch Cable	Qty: [optional]
N001-014-BL	14-ft. Blue Snagless Cat5e Molded Patch Cable	Qty: [optional]
N001-014-GY	14-ft. Gray Snagless Cat5e Molded Patch Cable	Qty: [optional]
N001-025-BL	25-ft. Blue Snagless Cat5e Molded Patch Cable	Qty: [optional]
N002-014-BL	14-ft. Blue Cat5e 350MHz Molded Patch Cable	Qty: [optional]
N010-007-GY	7-ft. Gray Cat5e 350MHz Cross-over Molded Cable	Qty: [optional]
N022-01K-GY	1,000-ft. Gray Cat5e 350MHz Bulk Solid PVC Cable	Qty: [optional]
N032-001	Cat5e Straight Through Modular In-line Coupler	Qty: [optional]
N033-001	Straight Through Modular In-line Coupler	Qty: [optional]
N050-012	12-Port Cat5e Wall Mount Patch Panel 568B	Qty: [optional]
N052-012	12-Port Cat5e Patch Panel 568B	Qty: [optional]
N052-024	24-Port Cat5e Patch Panel 568B	Qty: [optional]
N052-048	48-Port Cat5e Patch Panel 568B	Qty: [optional]
<b>Extended Warranties</b>		
WEXT3-500-1500	3-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 1500VA or less	Qty: [optional]
WEXT5-500-1500	5-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 1500VA or less	Qty: [optional]
<b>External Battery Packs</b>		
BP36V15-2U	BP36V15-2U - External Battery Pack for UPS System	Qty: [optional]
BP36V42-3U	BP36V42-3U - External Battery Pack for UPS System	Qty: [optional]
<b>Surge Protectors</b>		
DTEL2	Network Surge Suppressor - Essential protection for data and communication lines	Qty: [optional]
DNET1	Network Surge Suppressor - Essential protection for data and communication lines	Qty: [optional]

D10B2	Network Surge Suppressor - Essential protection for data and communication lines	Qty: [optional]
DCATV	Network Surge Suppressor - Essential protection for TV/VCR coaxial lines	Qty: [optional]
DB9	Network Surge Suppressor - Essential protection for data and communication lines	Qty: [optional]
DB25	Network Surge Suppressor - Essential protection for data and communication lines	Qty: [optional]