Smart Pro XL Medical Grade UPS System

Intelligent, line interactive power management system



Model #: SMART1200XLHG

- UL 60601-1 listed
- Isolated 1000VA line interactive UPS system with less than 300 microamps leakage current
- Hospital-grade plug and 4 hospital-grade NEMA5-15R output receptacles
- Corrects brownouts and overvoltages from 81V to 143V
- Enhanced communications ports (1 RS-232 / 1 USB)
- Expandable runtime with optional BP36V27 battery pack

DESCRIPTION

Tripp Lite 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 with less than 300 microamps leakage current for the UPS and all connected 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, internetworking 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 (part# BP36V27). 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-RS-232, 1-USB) that work with included PowerAlert Software and cabling to provide automatic unattended shutdown of connected network and PC applications.

KEY BUYING POINTS

- Ideal UPS protection for applications in medical patient-care areas where UL 60601-1 listed medical electrical equipment is required
- Maintains less than 300 microamps leakage current for UPS and all connected equipment
- 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 (part# BP36V27)
- 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 / 750 watts
- 34 minutes half load runtime (500VA/375 watts), 16 minutes full load runtime (1000VA/750 watts)
- 4 protected hospital-grade outlets; 6-ft. cord
- 1-RS-232 and 1-USB serial port for network interface; SNMP compatible
- SNMP compatible with separate purchase SNMPWEBSOLO ethernet adapter accessory
- Complete surge protection, line isolation and EMI/RFI noise filtering
- 2 year product warranty
- PowerAlert unattended shutdown software and complete cabling included
- 5 diagnostic LEDs indicate AC present, on battery, voltage correction, overload & battery low/replace
- Battery replacement door
- Back panel grounding lug

TYPICAL 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.

OPTIONS & ACCESSORIES

- External battery pack: BP36V27
- SNMP accessories: <u>SNMPWEBSOLO</u>, <u>ENVIROSENSE</u>
- Wallmount Bracket: UPSWM
- Dataline protectors: <u>DNET1</u>, <u>DTEL2</u>, <u>DCATV</u>
- Extended warranties: 3 Year WEXT3-500-1500, 5 Year WEXT5-500-1500

PACKAGE INCLUDES

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

COMPLETE SPECIFICATIONS

SYSTEM OVERVIEW

System overview:

OUTPUT

INPUT

Half load runtime:

Medical Grade tower UPS system includes built in isolation transformer with faraday shield, line interactive voltage regulation. AC surge suppression, RS-232 & USB monitoring ports with complete software and cabling, plus hospital-grade plug and outlets. Runtime is expandable via separate purchase BP36V27 external battery packs. UL 60601-1 listed as medical electrical equipment with less than 300 microamps combined leakage current for UPS and connected loads. 120V AC Voltage compatibility: Frequency compatibility: 60 Hz 1000 Output volt amp capacity (VA): 750 Output watt capacity (watts): 120V Output nominal voltage: **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 Hospital Grade output receptacles Resettable circuit breaker **Overload protection:**

Maximum input amps: 9.2A / 860 watts Input connection type: NEMA 5-15P Hospital Grade Input cord length: 6 ft., 14 gauge **Recommended electrical service:** 15A 120V BATTERY Full load runtime: 16 minutes (1000VA)

34 minutes (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%
Direct pass through:	Input voltages between 105 and 125V AC are passed through unchanged
Brownout correction:	Input voltages between 96 and 106V AC are boosted by 10%
Severe brownout correction:	Input voltages between 81 and 95V AC are boosted by 21%
LEDS ALARMS & SWITCHES	
Front panel LEDs:	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
Alarms:	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
SURGE / NOISE SUPPRESSION	
AC surge suppression:	Conforms to IEEE 587 / ANSI C62.41 specifications
AC suppression response time:	Instantaneous
EMI / RFI AC noise suppression:	Yes
PHYSICAL	
Shipping weight (lbs):	49.2
Shipping weight (kg):	22.4
Unit weight (Ibs):	45.2
Unit weight (kg):	20.5
Unit Dimensions (HWD/in):	12.5 x 7.5 x 9.5
Unit Dimensions (HWD/cm):	31.75 x 19.1 x 24.2
Shipping Dimensions (HWD/in):	18.25 x 11.75 x 13.5
Shipping Dimensions (HWD/cm):	46.4 x 29.9 x 34.3
Material of construction:	PVC
Form factors supported:	Tower, wall mountable with optional UPSWM accessory
Cooling method:	UPS cooling via rear-exit fan
Battery Access:	Battery access door allows hot swap battery replacement without powering connected equipment off
ENVIRONMENTAL	
Operating Temperature:	+32 to +104 degrees Fahrenheit 0 to +40 degrees Celsius
Storage Temperature:	+5 to +122 degrees Fahrenheit -15 to +50 degrees Celsius
Relative Humidity:	0 to 95%, non-condensing
COMMUNICATIONS	

Network monitoring port:	Includes 2 built-in monitoring ports, 1-USB & 1-RS232
Software and 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
SNMP compatibility:	Separate purchase "SNMPWEBSOLO" external ethernet adapter allows UPS to be used as a managed network device from remote network management stations, enabled network workstations and password protected remote web browsers
LINE / BATTERY TRANSFER	
Transfer time from line power to battery mode:	2-4 milliseconds
Low voltage transfer to battery power:	81V (resets to line power as voltage increases to 85V)
High voltage transfer to battery power:	143V (resets to line power as voltage decreases to 139V)
CERTIFICATIONS	
Certifications:	UL1778 (USA, Series AGSM1200PSR3HG), UL 60601-1 (Medical), cUL (Canada), FCC Class A (emissions)
WARRANTY	
Optional coverage:	3 year, 5 year, next day and on-site warranty coverage available in many areas — contact Tripp Lite
Product warranty:	2 year product warranty
SPECIAL FEATURES	
Cold Start:	Yes, inverter can be "cold started" to enable temporary AC output during a power failure
Appearance:	Attractive gray tower UPS
BATTERY PACK ACCESSORY (optional)	
Battery Pack Accessory (optional):	BP36V27 (optional)

The policy of Tripp Lite is one of continuous improvement. Specifications are subject to change without notice. Therefore, your product may vary slightly from what is currently listed.



Tripp Lite World Headquarters 1111 W. 35th Street Chicago, IL 60609 USA

> Customer Support (773) 869-1234

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