Model #: SMART1200XLHG

SmartPro Medical Grade 1kVA 120V Line interactive Tower UPS with Extended-run, full isolation, USB & Serial ports

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)
- Reduce cumulative shock potential to less than 100 microamps

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 less than 100 microamps. 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.

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

Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	1000
Output kVA capacity (kVA)	1
Output Watt Capacity (watts)	750
Output power factor	0.8
Nominal Output Voltage(s) Supported	115V; 120V
Frequency compatibility	60 Hz
Output voltage regulation (line mode)	-18%, +8%
Output voltage regulation (Battery mode)	115V (+/- 5%)
Built-in UPS output receptacles	4 5-15R outlet(s)
Output receptacle details	Hospital grade output receptacles
Output AC waveform (AC mode)	Sine wave
Output AC waveform (battery mode)	PWM sine wave
INPUT	
Rated input current (at maximum load)	9.2A
Nominal Input Voltage(s) Supported	120V AC
UPS input connection type	5-15P-HG
Input circuit breaker	15A
UPS Input cord length (ft.)	6
UPS Input cord length (m)	1.8
Recommended Electrical Service	15A 120V
BATTERY	
Full load runtime (minutes)	10 min. (750w)
Half load runtime (minutes)	28 min. (375w)
Expandable battery runtime	Extended runtime supported via optional external battery packs
External battery pack compatibility	BP36V15-2U (limit 1); BP36V42-3U (multi-pack compatible)

DC system voltage (VDC)	36
Battery recharge rate (included batteries)	Less than 4.5 hours from 10% to 90%
Replacement battery cartridge (internal UPS battery replacement)	RBC53
Battery Access	Battery access door
Battery replacement description	Hot-swappable, user replaceable batteries

VOLTAGE REGULATION

Voltage regulation description	Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 81 to 143
Overvoltage correction	Input voltages between 126 and 143 are reduced by 9%
Undervoltage correction	Input voltages between 96 and 106 are boosted by 10%
Severe undervoltage correction	Input voltages between 81 and 95 are boosted by 21%

LEDS ALARMS & SWITCHES

LED Indicators	5 LEDs indicate line power, battery power, overload, voltage regulation and battery low/replace status
Alarms	Audible alarm indicates power-failure, overload and low-battery conditions
Alarm cancel operation	Power-fail alarm can be silenced using alarm-cancel switch; once silenced, alarm will re-sound to indicate low-battery status
Switches	2 Switches control off/on power status and alarm-cancel/self-test operation

SURGE / NOISE SUPPRESSION

UPS AC suppression joule rating	480
UPS AC suppression response time	Instantaneous
EMI / RFI AC noise suppression	Yes

ISOLATION

Output isolation transformer	Hospital grade load isolation transformer
Leakage current	Equal to 100 microamps

PHYSICAL

Installation form factors supported with included accessories	Tower
Installation form factors supported with optional accessories	Wallmount (UPSWM - tower mounting kit)
Primary form factor	Tower
UPS / Power Module dimensions in primary form factor (height x width x depth / inches)	12.5 x 7.5 x 9.5

UPS / Power Module dimensions in primary form factor (height x width x depth / cm)	31.8 x 19 x 24.1
UPS / Power Module weight (lbs)	45.2
UPS / Power Module weight (kg)	20.5
UPS Shipping dimensions (height x width x depth / inches)	18.2 x 11.8 x 13.5
UPS Shipping dimensions (height x width x depth / cm)	46.4 x 29.8 x 34.3
Shipping weight (lbs)	51
Shipping weight (kg)	23.2
UPS housing material	PVC
Cooling method	Fan

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)	162.8
Battery mode BTU / hr. (full load)	315.2

COMMUNICATIONS

Communications interface	USB; DB9 Serial
Network monitoring port description	Supports detailed monitoring of UPS and site power conditions
PowerAlert software	Included
Communications cable	USB and DB9 serial cabling included

LINE / BATTERY TRANSFER

Transfer time	2-4 milliseconds
Low voltage transfer to battery power (setpoint)	81
High voltage transfer to battery power (setpoint)	143

SPECIAL FEATURES

Grounding lug	Grounding lug
Cold Start (startup in battery mode during a power failure)	Cold-start operation supported

High availability UPS features	Hot swappable batteries
CERTIFICATIONS	
UPS Certifications	Tested to UL1778 (USA); Tested to CSA (Canada); Meets FCC Part 15 Category A (EMI); Tested to UL60601-1 (medical grade)
WARRANTY	
Product Warranty Period (Worldwide)	2-year limited warranty

Related Items

Optional Products

Related Model	Description	Qty.
BP36V15-2U	BP36V15-2U - External Battery Pack for UPS System	1
BP36V42-3U	BP36V42-3U - External Battery Pack for UPS System	1
DB9	Network Surge Suppressor - Essential protection for data and communication lines	1
DCATV	Network Surge Suppressor - Essential protection for TV/VCR coaxial lines	1
DNET1	Network Surge Suppressor - Essential protection for data and communication lines	1
DTEL2	Network Surge Suppressor - Essential protection for data and communication lines	1
N001-014-BK	14-ft. Cat5e 350MHz Snagless Molded Cable (RJ45 M/M) - Black	1
N001-014-BL	14-ft. Cat5e 350MHz Snagless Molded Cable (RJ45 M/M) - Blue	1
N001-014-GY	14-ft. Cat5e 350MHz Snagless Molded Cable (RJ45 M/M) - Gray	1
N001-025-BL	25-ft. Cat5e 350MHz Snagless Molded Cable (RJ45 M/M) - Blue	1
N002-014-BL	14-ft. Cat5e 350MHz Molded Cable (RJ45 M/M) - Blue	1
N010-007-GY	7-ft. Cat5e 350MHz Molded Cross-over Cable (RJ45 M/M) - Gray	1
N022-01K-GY	1000-ft. Cat5e 350MHz Bulk Solid-core PVC Cable - Gray	1
N032-001	Cat5e Straight Through Modular In-line Coupler (RJ45 F/F)	1
N033-001	Straight Through Modular In-line Coupler (RJ45 F/F)	1
N050-012	12-Port Cat5e Wall Mount Patch Panel 568B	1
N052-012	12-Port Cat5e Patch Panel 568B	1
N052-024	24-Port Cat5e Patch Panel 568B	1
N052-048	48-Port Cat5e Patch Panel 568B	1
WEXT3-500-1500	3-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 1500VA or less	1
WEXT5-500-1500	5-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 1500VA or less	1

More information, including related products, owner's manuals, and additional technical specifications, can be found online at

www.tripplite.com/en/products/model.cfm?variables.txtModelID=63.