



Tripp Lite
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Model #: SMART700HG

SmartPro UPS System - Intelligent line interactive medical-grade battery backup and network power management



Highlights

- 700VA line interactive 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 UL60601-1 listing
- Input: NEMA 5-15P (120V 15A) / Output: 4 NEMA 5-15R (120V)
- 2 year product warranty

Description

Tripp Lite's SMART 700HG offers medical-grade UPS protection with built-in line interactive voltage regulation, intelligent monitoring and unattended shutdown capability. UL 60601-1 listed as medical electrical equipment. Built-in isolation transformer with Faraday shield removes common mode noise while maintaining full AC surge suppression in all modes. Resistant to electrostatic discharge. Includes high quality hospital-grade plug and outlets. 700VA power handling capacity supports computers, inter-networking equipment and other critical loads during commercial power failures. Line interactive voltage regulation corrects brownouts as low as 81V and overvoltages as high as 143 back to normal 120V levels, saving battery reserves for use only during complete power failures. Includes 4 outlets, diagnostic LEDs and built-in USB & RS-232 communications ports that work with downloadable 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 700HG Medical Grade UPS System
- One USB and One DB9 monitoring cable
- 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
- 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 offers a higher degree of safety and prevents operational problems in sensitive electronic equipment



- Resistant to electrostatic discharge
- Supports loads up to 700VA/450 watts
- 42 minutes half load runtime (with 350VA load), 18 minutes full load runtime (with 700VA load)
- 4 protected hospital-grade outlets; 6-ft. cord
- RS-232 and USB monitoring ports for remote monitoring and unattended shutdown
- PowerAlert unattended shutdown software available via free download from www.tripplite.com (cabling included)
- Complete surge protection, line isolation and EMI/RFI noise filtering
- 2 year product warranty
- 5 diagnostic LEDs indicate AC present, on battery, voltage correction, overload & battery low/replace
- Battery replacement door
- Grounding lug

Specifications

SYSTEM OVERVIEW	
Voltage compatibility	120V AC
Frequency compatibility	60 Hz
OUTPUT	
Output VA	700
Output watts	450
Output nominal voltage	120V AC
Output voltage regulation	LINE MODE: Sine wave line voltage 120V (-18% / +8%)
Output frequency regulation	LINE MODE: Passes line frequency of 60Hz +/-10%
Outlet quantity / type	4 NEMA 5-15R-HG Hospital-Grade
Overload protection	Resettable circuit breaker
INPUT	
Maximum input amps	5.5A / 550 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	18 minutes (700VA)
Half load runtime	42 minutes (350VA)
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	480 joules
AC suppression response time	Instantaneous
EMI / RFI AC noise suppression	Yes
PHYSICAL	
Shipping weight (lbs)	48
Shipping weight (kg)	21.8
Unit weight (lbs)	44.6
Unit weight (kg)	20.2
Unit Dimensions (HWD/in)	12.75 x 7.5 x 9
Unit Dimensions (HWD/cm)	32.4 x 19.1 x 22.9
Material of construction	PVC
Form factors supported	Tower
Cooling method	Cooling via rear-exit cooling 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 available via free download from www.tripplite.com for all common network and standalone operating systems. Ships with 2 cables, 1-USB to USB & 1-DB9 to DB9
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	Tested to UL1778 (USA, Series AGSM700PSR3HG), UL60601-1 (Medical), cUL (Canada), FCC Class A (emissions)
WARRANTY	

Product warranty	2 year product warranty
Optional coverage	3 year, 5 year, next day and on-site warranty coverage available in many areas - contact Tripp Lite
SPECIAL FEATURES	
Cold Start	Yes, inverter can be "cold started" to enable temporary AC output during a power failure
Appearance	Attractive gray tower UPS

More information, including related products, owner's manuals, and additional technical specifications, can be found online at www.tripplite.com/products/model.cfm?txtModelID=64.

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