

SmartPro 120V 700VA 450W Medical-Grade Line-Interactive Tower UPS with 4 Outlets, Full Isolation, USB, Lithium Battery

MODEL NUMBER: **SMART700HGL**



Provides UL 60601-1 compliant, medical-grade 700VA/450W power backup, ideal for use in patient-care vicinities. Lithium Iron Phosphate batteries provide 20–30 times the cycle life of traditional batteries.

Description

Tripp Lite's SMART700HGL medical-grade UPS system provides dependable lithium iron phosphate (LiFePO4) battery backup, so you can work through short power failures and perform an orderly system shutdown in a prolonged blackout. It's fully compliant with UL 60601-1 regulations when plugged into a hospital-grade outlet, making it ideal for use in patient-care vicinities. The 700VA/450W capacity provides up to 42 minutes of runtime for a half load and 18 minutes for a full load.

Built-in line-interactive voltage regulation corrects brownouts as low as 81V and overvoltages as high as 143V to normal 120V nominal output without drawing battery power. The SMART700HGL's built-in isolation transformer with Faraday shield offers full isolation and removes common mode noise while maintaining full AC surge suppression in all modes.

This UPS system features four NEMA 5-15R-HG hospital-grade outlets and a hospital-grade NEMA 5-15P-HG plug with a six-foot cord for flexibility in placement. All four outlets provide both battery backup and 940 joules of surge protection.

The SMART700HGL also features diagnostic LEDs, as well as a USB port and a DB9 serial port that work with Tripp Lite's free downloadable PowerAlert® software for safe, unattended system shutdown and file saves in the event of a prolonged power failure.

Features

Provides Ideal UPS Backup in Healthcare Facilities Compliant with UL 60601-1 standards for use in patient-care vicinities when plugged into a hospital-grade outlet Built-in isolation transformer with Faraday shield offers full isolation and reduces cumulative leakage current of connected equipment to less than 100 A Hospital-grade NEMA 5-15P-HG plug with 6 ft. cord provides flexibility in placement, so healthcare workers can focus on treating the patient

Battery Backup and Full Surge Protection Supports half load for 42 min. and full load for 18 min. with standard LiFePO4 internal battery Hospital-grade NEMA 5-15R-HG outlets provide 940 joules of surge protection EMI/RFI noise filtering ensures equipment runs smoothly without line noise interference Resistant to electrostatic discharge 10,000-cycle LiFePO4 battery

LEDs and Audible Alarms Keep You Aware of Power Status Indicator lights monitor when the UPS is

Highlights

- 42 min. runtime at half load; 18 min. at full load
- Reduces cumulative leakage current to under 100 A
- Floating AC output prevents noise coupling
- 940 joules of surge protection
- 10,000-cycle LiFePO4 battery
- Approved for use within the Patient Care Vicinity
- Approved to EN60601-1-2:2015 & IEC60601-1-2:2014, 4th Edition

Package Includes

- SMART700HGL 700VA/450W Medical-Grade Tower UPS System
- USB monitoring cable, 6 ft.
- DB9 serial monitoring cable, 6 ft.
- 5 yr. warranty on UPS and batteries
- Owner's manual



on and supplying utility power, when operating in voltage correction mode or in battery mode, relative load level and low-battery warning Audible alarms alert you to power failure, overload and low battery conditions Mute/quiet mode ensures "alarm fatigue" compliance
Saves Your Files, Even When You're Away Works with Tripp Lite PowerAlert software (available as a free download) to enable safe, unattended system shutdown and files saves during prolonged power failures Connects to your computer via DB9 or USB port

Specifications

OVERVIEW	
UPC Code	037332192219
UPS Type	Line-Interactive
INPUT	
Rated input current (Maximum Load)	5.5A
Nominal Input Voltage(s) Supported	120V AC
UPS Input Connection Type	5-15P-HG
Input Circuit Breakers	10A
UPS Input Cord Length (ft.)	6
UPS Input Cord Length (m)	1.8
Recommended Electrical Service	15A 120V
Input Phase	Single-Phase
Input Cord Length (ft.)	6
Input Cord Length (m)	1.83
OUTPUT	
Output Volt Amp Capacity (VA)	700
Output Watt Capacity (Watts)	450
Power Factor	0.6
Frequency Compatibility	60 Hz
Output Voltage Regulation (Line Mode)	-18%, +8%
Output Voltage Regulation (Battery Mode)	115V (+/- 5%)
Output Receptacle Details	Hospital grade output receptacles
Output AC Waveform (AC Mode)	Sine wave
Output AC Waveform (Battery Mode)	PWM sine wave
Nominal Output Voltage(s) Supported	115V; 120V



Output Receptacles	(4) 5-15R
Individually Controllable Load Banks	No
BATTERY	
Full Load Runtime (min.)	18 min. (450w)
Half Load Runtime (min.)	42 min. (225w)
DC System Voltage (VDC)	36
Battery Recharge Rate (Included Batteries)	Less than 4 hours from 10% to 90%
Battery Access	Battery access door
Expandable Runtime	No
POWER	
LED Indicators	5 LEDs indicate line power, battery power, overload, voltage regulation and battery low/replace status
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%
USER INTERFACE, ALERTS & CONTROLS	
Switches	2 Switches control off/on power status and alarm-cancel/self-test operation
Alarm Cancel Operation	Power-fail alarm can be silenced using alarm-cancel switch; once silenced, alarm will re-sound to indicate low-battery status
Audible Alarm	Audible alarm indicates power-failure, overload and low-battery conditions
SURGE / NOISE SUPPRESSION	
UPS AC Suppression Joule Rating	940
UPS AC Suppression Response Time	Instantaneous
EMI / RFI AC Noise Suppression	Yes
AC Suppression Joule Rating	940
AC Suppression Response Time	Instantaneous
ISOLATION	
Output Isolation Transformer	Hospital grade load isolation transformer
Leakage Current	Equal to less than 100 microamps
PHYSICAL	



Cooling Method	Fan
Installation Form Factors Supported with Included Accessories	Tower
Installation Form Factors Supported with Optional Accessories	Wallmount (UPSWM - tower mounting kit)
Primary Form Factor	Tower
Primary UPS Depth (mm)	229
Primary UPS Height (mm)	325
Primary UPS Width (mm)	191
Shipping Dimensions (hwd / cm)	43.18 x 28.45 x 33.02
Shipping Dimensions (hwd / in.)	17.00 x 11.20 x 13.00
Shipping Weight (kg)	16.07
Shipping Weight (lbs.)	35.43
UPS Housing Material	PVC
UPS Power Module Dimensions (hwd, cm)	32.51 x 19.05 x 22.86
UPS Power Module Dimensions (hwd, in.)	12.8 x 7.5 x 9
UPS Power Module Weight (kg)	15.30
UPS Power Module Weight (lbs.)	33.73
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)	97.7
Battery Mode BTU / Hr. (Full Load)	189.1
AC Mode Efficiency Rating (100% Load)	94%
COMMUNICATIONS	
Network Monitoring Port Description	Supports detailed monitoring of UPS and site power conditions
PowerAlert Software	For local monitoring via the UPS's built-in communication ports , download PowerAlert Local software at http://www.tripplite.com/poweralert
Communications Cable	USB and DB9 serial cabling included
Communications Interface	USB; DB9 Serial
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
Green Energy-Saving Features	Greater than 95% efficiency - GREEN UPS
STANDARDS & COMPLIANCE	
UPS Certifications	Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances); Tested to CSA (Canada); Tested to UL1778 (USA); Tested to UL60601-1 (medical grade)
WARRANTY	
Product Warranty Period (Worldwide)	5-year limited warranty

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