SmartPro 120V 700VA 450W Medical-Grade Line-Interactive Tower UPS with 4 Outlets, Full Isolation, USB, DB9

MODEL NUMBER: **SMART700HG**





Provides UL 60601-1 compliant, medical-grade 700VA/450W power backup, ideal for use in patient-care vicinities. The built-in isolation transformer offers full isolation while maintaining AC surge protection in all modes.

Highlights

- Supports a half load up to 42 minutes; full load up to 18 minutes
- Four hospital-grade outlets and hospital-grade plug
- 480 joule surge suppression rating protects connected equipment
- Alarm mute/alarm quiet control is ideal for use around patients
- Approved for use within the Patient Care Vicinity
- Approved to EN60601-1-2:2015 and IEC60601-1-2:2014, 4th Edition

Package Includes

- SMART700HG 700VA/450W Medical-Grade Tower UPS System
- USB monitoring cable, 6 ft.
- DB9 serial monitoring cable, 6 ft.
- Owner's Manual

Description

SMART700HG medical-grade UPS system provides dependable battery backup and is 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, or 18 minutes for a full load so you can work through short power failures and perform an orderly system shutdown in a prolonged blackout.
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 SMART700HG'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 has a hospital-grade NEMA 5-15P-HG plug with a six-foot cord for flexibility in placement. All four outlets provide both backup protection and surge protection, rated to 480 joules.
The SMART700HG also features diagnostic LEDs, as well as a USB port and a DB9 serial port that work with free downloadable PowerAlert® software for safe, unattended system shutdown and file saves in the event of a prolonged power failure.

Application Usage

This UPS contains a lead acid battery designed to be connected continuously to an AC power source, except during brief power outages. It is not intended for frequent charge/discharge cycles, such as mobile cart applications where the UPS is often disconnected from the power source. Using the SMART700HG in this type of application will void the battery warranty. For mobile applications, we recommend the SMART700HGL with lithium iron phosphate (LiFePo4) battery.

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 removes common mode noise
- Hospital-grade plug with 6 ft. cord provides flexibility in placement so healthcare workers can focus on

treating the patient

Battery Backup and Full Surge Protection
- 42 minutes runtime for half load (225W); 18 minutes for full load (450W)
- All four hospital-grade outlets provide surge protection rated to 480 joules
- EMI/RFI noise filtering ensures equipment runs smoothly without line noise interference
- Resistant to electrostatic discharge

LEDs and Audible Alarms Keep You Aware of Power Status
- Indicator lights on the front of the unit show you when the UPS is 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; the alarm's mute/quiet mode ensures patients are not disturbed

Saves Your Files, Even When You're Away
- Works with 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 either the DB9 port or USB port

Specifications

OVERVIEW	
UPC Code	037332095107
UPS Type	Line-Interactive
INPUT	
Input Phase	Single-Phase
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
Maximum Input Amps	6
Input Cord Length (ft.)	6
Input Cord Length (m)	1.83
OUTPUT	
Output Capacity (VA)	700
Output Capacity (kVA)	0.7

Output Capacity (Watts)	450
Output Capacity (kW)	0.45
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	
Battery Type	Valve Regulated Lead Acid (VRLA)
Runtime Full Load (min.)	18 min. (450W)
Runtime Half Load (min.)	42 min. (225W)
Expandable Runtime	No
DC System Voltage (VDC)	36
Battery Recharge Rate (Included Batteries)	Less than 4 hours from 10% to 90%
Battery Access	Battery access door
Internal UPS Replacement Battery Cartridge	RBC36SLT
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%
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

LED Indicators	5 LEDs indicate line power, battery power, overload, voltage regulation and battery low/replace status
ISOLATION	
Output Isolation Transformer	Hospital grade load isolation transformer
Leakage Current	Equal to 100 microamps
SURGE / NOISE SUPPRESSION	
EMI / RFI AC Noise Suppression	Yes
AC Suppression Joule Rating	480
AC Suppression Response Time	Instantaneous
PHYSICAL	
Primary Form Factor	Tower
Rack Height	0U
Cooling Method	Fan
Installation Form Factors Supported with Optional Accessories	Wallmount (UPSWM - tower mounting kit)
Primary UPS Depth (mm)	229
Primary UPS Height (mm)	325
Primary UPS Width (mm)	191
Shipping Dimensions (hwd / in.)	17.00 x 11.20 x 13.00
Shipping Dimensions (hwd / cm)	43.18 x 28.45 x 33.02
Shipping Weight (lbs.)	45.30
Shipping Weight (kg)	20.55
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)	20.05
UPS Power Module Weight (lbs.)	44.2
Unit Dimensions (hwd / in.)	12.500 x 7.500 x 9.500
Unit Weight (lbs.)	44.200
Unit Weight (kg)	20.05
ENVIRONMENTAL	
Operating Temperature Range	32° to 104°F (0° to 40°C)
Storage Temperature Range	5° to 122°F (-15° to 50°C)
Relative Humidity	0-95% non-condensing

AC Mode BTU / Hr. (Full Load)	97.7
AC Mode Efficiency Rating (100% Load)	94%
Battery Mode Heat Dissipation (BTU/Hr) @ Full Load	189.1
Battery Mode Heat Dissipation (BTU/Hr) @ Half Load	114.3
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 software at https://tripplite.eaton.com/products/power-alert
Communications Cable	USB and DB9 serial cabling included
Network Management Card Description	Network management not supported
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
FEATURES & SPECIFICATIONS	
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Hot swappable batteries; Surge/noise protection
Green Energy-Saving Features	Greater than 95% efficiency - GREEN UPS
Grounding Details	Grounding lug
APPLICATIONS	
UPS Applications	Hospital/Medical
STANDARDS & COMPLIANCE	
Product Certifications	CSA (Canada); UL 1778; UL 60601-1; NOM (Mexico)
Product Compliance	RoHS; FCC Part 15 Class A (USA)
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	2-year limited warranty

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