

## SmartPro 230V 700VA 450W CE/IEC 60601-1 Medical-Grade Line-Interactive UPS, Tower, Full Isolation, USB, DB9 Serial

MODEL NUMBER: **SMX700HG**



### Description

Tripp Lite's SMX700HG offers medical-grade UPS protection with built-in line interactive voltage regulation, intelligent monitoring and unattended shutdown capability. Tested to CE/IEC 60601-1 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 155V and overvoltages as high as 274 back to normal 230V levels, saving battery reserves for use only during complete power failures. Includes 6 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.

### 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 155 to 274 volts back to usable 230V 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
- 36 minutes half load runtime (with 350VA load), 14.5 minutes full load runtime (with 700VA load)
- 6 protected hospital-grade outlets; IEC C14 inlet on 6-inch dongle
- RS-232 and USB monitoring ports for remote monitoring and unattended shutdown
- PowerAlert unattended shutdown software available via free download from [www.tripplite.com](http://www.tripplite.com) (cabling included)

### Highlights

- 700VA line interactive tower UPS
- Professional features include serial port, USB port, IEC320 plug & outlets, built-in isolation transformer
- Input: IEC320 C14 (230V 3.6A) / Output: 6 IEC320 C13 (230V)

### Applications

Tested to CE/IEC 60601-1. 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

- SMX700HG Medical Grade UPS System
- One USB and One DB9 monitoring cable
- Warranty information
- Instruction manual



- 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 equipotential connection (grounding lug)

## Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	700
Output Watt Capacity (Watts)	450
Nominal Output Voltage(s) Supported	220V; 230V; 240V
Nominal Voltage Details	230v nominal inverter output voltage
Frequency Compatibility	50 / 60 Hz
Frequency Compatibility Details	Automatic frequency selection
Output Voltage Regulation (Line Mode)	-18%, +8%
Output Receptacles	(6) C13
Output AC Waveform (Battery Mode)	PWM sine wave
INPUT	
Rated input current (Maximum Load)	3.6A
Nominal Input Voltage(s) Supported	230V AC
UPS Input Connection Type	C14 inlet
UPS Input Cord Length (ft.)	6 inch dongle., 16 gauge
UPS Input Cord Length (m)	1.83
Recommended Electrical Service	10A 230V
Voltage Compatibility (VAC)	230
Input Phase	Single-Phase
BATTERY	
Full Load Runtime (min.)	14.5 min. (450w)
Half Load Runtime (min.)	36 min. (225w)
DC System Voltage (VDC)	36
Battery Recharge Rate (Included Batteries)	Less than 3.6 hours from 10% to 90% (typical, full load discharge)
Internal UPS Replacement Battery Cartridge	<a href="#">RBC53</a>
Battery Access	Battery access door allows hot swap battery replacement without powering connected equipment off



Typical Battery Lifespan	3-6 years, depending on usage
<b>VOLTAGE REGULATION</b>	
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 155 to 274V AC
Overvoltage Correction	Input voltages between 206 and 245V AC are reduced by 9%
Undervoltage Correction	Input voltages between 183 and 199 are boosted by 10%
Severe Undervoltage Correction	Input voltages between 155 and 182 are boosted by 21%
<b>USER INTERFACE, ALERTS &amp; CONTROLS</b>	
Switches	Yes, includes 2 front panel mounted push-button switches for system enable, self-test and alarm cancel functions
Audible Alarm	3 function audible alarm indicates power failure conditions (4 short beeps every 10 seconds), overload (continuous short beeps) and low battery (continuous tone)
LED Indicators	5 LEDs indicate line power, battery power, overload, voltage regulation and battery low/replace status
<b>SURGE / NOISE SUPPRESSION</b>	
UPS AC Suppression Joule Rating	340 joules
EMI / RFI AC Noise Suppression	Yes
AC Suppression Response Time	Instantaneous
<b>PHYSICAL</b>	
Installation Form Factors Supported with Optional Accessories	Wallmount (UPSWM - tower mounting kit)
Primary Form Factor	Tower
UPS Power Module Dimensions (hwd, in.)	12.8 x 7.5 x 9
UPS Power Module Dimensions (hwd, cm)	32.5 x 19 x 22.9
UPS Power Module Weight (lbs.)	42.1
UPS Power Module Weight (kg)	19.1
UPS Shipping Dimensions (hwd / in.)	18.5 x 12.2 x 13.4
UPS Shipping Dimensions (hwd / cm)	47 x 31 x 34
Shipping Weight (lbs.)	45.4
Shipping Weight (kg)	20.4
Cooling Method	Cooling via rear-exit cooling fan
UPS Housing Material	PVC
<b>ENVIRONMENTAL</b>	



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)	208.6
Battery Mode BTU / Hr. (Full Load)	189.1
<b>COMMUNICATIONS</b>	
Communications Interface	USB; DB9 Serial
<b>LINE / BATTERY TRANSFER</b>	
Transfer Time	5 milliseconds
Low Voltage Transfer to Battery Power (Setpoint)	155
High Voltage Transfer to Battery Power (Setpoint)	274
<b>SPECIAL FEATURES</b>	
Grounding Lug	Equipotential connection (back panel grounding lug)
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
<b>CERTIFICATIONS</b>	
UPS Certifications	CE; Tested to UL60601-1 (medical grade)
<b>WARRANTY</b>	
Product Warranty Period (International)	2-year limited warranty
Product Warranty Period (Mexico)	2-year limited warranty
Product Warranty Period (Puerto Rico)	2-year limited warranty

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