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SmartPro 230V 700VA 450W Medical-Grade Line-Interactive Tower UPS with 6 Outlets, Full Isolation, USB, DB9

MODEL NUMBER: SMX700HG





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.

Description

Tripp Lite's SMX700HG 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 36 minutes of runtime for a half load, or 14.5 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 155V and overvoltages as high as 274V to normal 230V nominal output, without drawing battery power. The SMX700HG'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. Cumulative leakage current of all connected equipment is less than 100 microamps.

This UPS system features six IEC320 C13 hospital-grade outlets and has a hospital-grade IEC320 C14 plug on a 15 cm (6 in.) dongle. All six outlets provide both backup protection and surge protection, rated to 340 joules.

The SMX700HG 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.

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 SMX700HG in this type of application will void the battery warranty.

Features

Provides Ideal UPS Backup in Healthcare Facilities

Highlights

- Supports a half load up to 36 minutes; full load up to 14.5 minutes
- Six IEC320 C13 hospital-grade outlets and IEC320 C14 hospital-grade plug
- Leakage current less than 100 microamps
- Approved for use within the Patient Care Vicinity
- Approved to EN60601-1-2:2015, 4th Edition
- 340 joule surge suppression rating protects connected equipment
- Alarm mute/alarm quiet control is ideal for use around patients

Package Includes

- SMX700HG 700VA/450W
 Medical-Grade Tower UPS
 System
- USB monitoring cable, 1.8 m (6 ft.)
- DB9 serial monitoring cable, 1.8 m (6 ft.)
- Owner's Manual



- Compliant with UL 60601-1 standards for use in patient-care vicinities, when plugged into a hospitalgrade outlet
- Built-in isolation transformer with Faraday shield offers full isolation and removes common mode noise

Battery Backup and Full Surge Protection

- 36 minutes runtime for half load (225W); 14.5 minutes for full load (450W)
- All six hospital-grade outlets provide surge protection rated to 340 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 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 either the DB9 port or USB port

Specifications

| OVERVIEW | | |
|--|--------------------------------------|--|
| UPC Code | 037332140418 | |
| UPS Type | Line-Interactive | |
| OUTPUT | | |
| Output Volt Amp Capacity (VA) | 700 | |
| Output Watt Capacity (Watts) | 450 | |
| 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 AC Waveform (Battery Mode) | PWM sine wave | |
| Nominal Output Voltage(s) Supported | 220V; 230V; 240V | |



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| Output Receptacles | (6) C13 | |
|---|---|--|
| Individually Controllable Load Banks | No | |
| 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.) | 0.50 | |
| UPS Input Cord Length (m) | 0.2 | |
| 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 | RBC36SLT | |
| Battery Access | Battery access door allows hot swap battery replacement without powering connected equipment off | |
| Typical Battery Lifespan | 3-6 years, depending on usage | |
| Expandable Runtime | No | |
| 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 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% | |
| USER INTERFACE, ALERTS & CONTROLS | | |
| 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). Audible Alarm is factory muted for silent operation; Audible alarm can be restored to indicate power failure, overload conditions and Low Battery events, using our Free PowerAlert UPS management software. | |
| LED Indicators | 5 LEDs indicate line power, battery power, overload, voltage regulation and battery low/replace status | |



| SURGE / NOISE SUPPRESSION | | |
|---|--|--|
| UPS AC Suppression Joule Rating | 340 | |
| EMI / RFI AC Noise Suppression | Yes | |
| AC Suppression Response Time | Instantaneous | |
| PHYSICAL | | |
| Cooling Method | Cooling via rear-exit cooling fan | |
| 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) | 46.99 x 30.99 x 33.99 | |
| Shipping Dimensions (hwd / in.) | 18.50 x 12.20 x 13.38 | |
| Shipping Weight (kg) | 20.59 | |
| Shipping Weight (lbs.) | 45.40 | |
| 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) | 19.10 | |
| UPS Power Module Weight (lbs.) | 42.1 | |
| 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) | 208.6 | |
| Battery Mode BTU / Hr. (Full Load) | 189.1 | |
| COMMUNICATIONS | | |
| Communications Interface | USB; DB9 Serial | |
| LINE / BATTERY TRANSFER | | |
| Transfer Time | 5 milliseconds | |



| Low Voltage Transfer to Battery Power (Setpoint) | 155 | |
|--|---|--|
| High Voltage Transfer to Battery Power (Setpoint) | 274 | |
| | • | |
| SPECIAL FEATURES | | |
| Grounding Lug | Equipotential connection (back panel grounding lug) | |
| Cold Start (Startup in Battery Mode During a Power Failure) | Cold-start operation supported | |
| CERTIFICATIONS | | |
| UPS Certifications | CE; Tested to UL60601-1 (medical grade) | |
| WARRANTY | | |
| 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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