SmartPro Medical-Grade UPS, Line Interactive, Lithium Battery, 6 Outlets - 230V, 700VA, 450W, Full Isolation

MODEL NUMBER: **SMX700HGL**





Line-interactive UPS provides basic battery backup with UL 60601-1 compliance for use in medical facilities, including patient care areas.

Features

700VA/450W Medical-Grade UPS Allows Time to Back Up Critical Files During a Blackout This 230V SmartPro® hospital-grade UPS is fully compliant with UL 60601-1 regulations when plugged into a hospital-grade outlet, which makes it ideal for use in medical facilities, including patient care vicinities. It allows you to work through short power failures, and gives you enough time to safely save files and shut down your system in case of a prolonged blackout.

Long-Lasting LiFePhos Battery Handles up to 10,000 Cycles with Ease This UPS system for hospitals contains a replaceable lithium iron phosphate (LiFePhos) internal battery that provides up to 30 times the cycle life of traditional sealed lead acid (SLA) batteries. The 6-outlet UPS system provides up to 42 minutes of battery backup at half load and 18 minutes at full load. During normal operation, incoming utility power keeps the replaceable internal battery fully charged, so backup power will always be available.

Automatic Voltage Regulation (AVR) Corrects Potentially Hazardous Voltage FluctuationsAVR protects your equipment from incremental hardware damage, data loss and performance problems caused by brownouts. This UPS for medical equipment can correct brownouts as low as 155V and overvoltages as high as 274V back to nominal 230V power without drawing on the battery backup needed to support your equipment during a blackout.

Built-In Isolation Transformer Offers Full Isolation The 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.

Connect Your Equipment to 6 IEC 320 C13 Outlets Six C13 hospital-grade outlets provide both battery backup and surge protector for your mobile medical equipment, such as computers, monitors and lab equipment. A 340-joule surge suppression rating protects connected components from the harmful effects of power surges.

Combats Electromagnetic Interference That Can Harm Equipment Various electromagnetic and radio sources found in virtually every home and business can cause disruptive interference on the AC line. Known as EMI (electromagnetic interference) and RFI (radio frequency interference), this line noise is a common cause of performance problems and can lead to incremental hardware damage, data corruption and audio/video transmission problems. This medical-grade UPS system incorporates technology that

Highlights

- Lithium battery backup allows time to save files and safely shut down during blackouts
- 6 C13 hospital-grade (HG) outlets provide power to medical equipment
- Approved for use within the Patient Care Vicinity
- Approved to EN60601-1-2:2015, 4th Edition
- Alarm and front-panel LEDs report online, battery, fault and overload conditions
- 10,000-cycle LiFePO4 battery lasts up to 30x longer than comparable SLA batteries

Applications

- Protect your medical electronics against power surges, brownouts and blackouts in patient care vicinities
- Operate essential equipment during short-term power outages using battery backup power
- Shut down PCs, monitors, mobile medical components and other equipment without data loss during long-term power outages

Package Includes

- SMX700HGL 700VA/450W SmartPro Medical-Grade UPS, Tower
- USB monitoring cable, 1.8 m (6 ft.)
- DB9 serial monitoring cable, 1.8 m (6 ft.)
- Owner’s manual

filters out disruptive line noise so that it won't affect your equipment.

Easy-to-Read LEDs and Alarm Report Real-Time UPS and Power Status Front-panel LED indicators monitor essential information, such as line power, battery power, overload, voltage regulation and battery low/replace status. An audible alarm will sound in case of low battery, excessive load and power failure.

Saves Your Files, Even When You're AwayUSB and DB9 serial ports connect to your computer with the included cables. These ports communicate with free downloadable PowerAlert® software for safe, unattended system shutdown and file saves in the event of a prolonged power failure.

Tower Form Factor for Easy Placement on a Nurse's Station or Mobile Medical Cart The long-lasting PVC housing fits easily on a desktop, shelf or anywhere else power is needed. The 15-centimeter (six-inch) dongle with hospital-grade C14 plug connects to a properly grounded AC wall outlet.

Specifications

OVERVIEW	
UPC Code	037332224804
UPS Type	Line-Interactive
INPUT	
Input Phase	Single-Phase
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
OUTPUT	
Output Capacity (VA)	700
Output Capacity (kVA)	0.7
Output Capacity (Watts)	450
Output Capacity (kW)	0.45
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
Output Receptacles	(6) C13
Individually Controllable Load Banks	No
BATTERY	
Battery Type	Lithium-ion (LiFePO4)
Runtime Full Load (min.)	14.5 min. (450W)
Runtime Half Load (min.)	36 min. (225W)
Expandable Runtime	No
DC System Voltage (VDC)	36
Battery Recharge Rate (Included Batteries)	Less than 3.6 hours from 10% to 90% (typical, full load discharge)
Battery Access	Battery access door allows hot swap battery replacement without powering connected equipment off
Internal UPS Replacement Battery Cartridge	RBC53L
Typical Battery Lifespan	3-6 years, depending on usage
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	
Primary Form Factor	Tower
Cooling Method	Cooling via rear-exit cooling fan

Installation Form Factors Supported with Included Accessories	Tower
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.)	18.50 x 12.20 x 13.38
Shipping Weight (kg)	20.59
UPS Housing Material	PVC
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
Unit Weight (lbs.)	42.100
Unit Weight (kg)	19.10
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 to 95%, non-condensing
AC Mode BTU / Hr. (Full Load)	208.6
Battery Mode Heat Dissipation (BTU/Hr) @ Full Load	189.1
COMMUNICATIONS	
Network Management Card Description	Network management not supported
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
FEATURES & SPECIFICATIONS	
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
High Availability UPS Features	Surge/noise protection
Grounding Details	Equipotential connection (back panel grounding lug)

APPLICATIONS	
UPS Applications	Hospital/Medical
STANDARDS & COMPLIANCE	
Product Certifications	UL 60601-1
Product Compliance	RoHS; CE (Europe)
WARRANTY & SUPPORT	
Product Warranty Period (International)	5-year limited warranty
Product Warranty Period (Mexico)	5-year limited warranty
Product Warranty Period (Puerto Rico)	5-year limited warranty

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