

SmartPro Medical Grade .7kVA 120V Line interactive Tower UPS, full isolation, USB & Serial ports

MODEL NUMBER: **SMART700HG**



Highlights

- 700VA line interactive tower UPS
- Maintains 120V nominal output over an input range of 82 to 142V
- Professional features include serial port, hospital grade plug & outlets, built-in isolation transformer and UL60601-1 listing
- Input: NEMA 5-15P (120V 15A) / Output: 4 NEMA 5-15R (120V)
- Leakage current less than 100 microamps

Package Includes

- SMART 700HG Medical Grade UPS System
- One USB and One DB9 monitoring cable
- Warranty information
- Instruction manual

Description

Tripp Lite's SMART 700HG offers medical-grade UPS protection with built-in line interactive voltage regulation, intelligent monitoring and unattended shutdown capability. UL 60601-1 listed as medical electrical equipment. Built-in isolation transformer with Faraday shield removes common mode noise while maintaining full AC surge suppression in all modes less than 100 microamps. 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 81V and overvoltages as high as 143 back to normal 120V levels, saving battery reserves for use only during complete power failures. Includes 4 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 81 to 143 volts back to usable 120V 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
- 42 minutes half load runtime (with 350VA load), 18 minutes full load runtime (with 700VA load)
- 4 protected hospital-grade outlets; 6-ft. cord
- RS-232 and USB monitoring ports for remote monitoring and unattended shutdown
- PowerAlert unattended shutdown software available via free download from www.tripplite.com (cabling included)
- Complete surge protection, line isolation and EMI/RFI noise filtering
- 5 diagnostic LEDs indicate AC present, on battery, voltage correction, overload & battery low/replace



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- Battery replacement door and back panel grounding lug

Specifications

| OUTPUT | |
|--|-----------------------------------|
| Output Volt Amp Capacity (VA) | 700 |
| Output Watt Capacity (Watts) | 450 |
| Power Factor | 0.6 |
| Nominal Output Voltage(s) Supported | 115V; 120V |
| Frequency Compatibility | 60 Hz |
| Output Voltage Regulation (Line Mode) | -18%, +8% |
| Output Voltage Regulation (Battery Mode) | 115V (+/- 5%) |
| UPS Output Receptacles | 4 5-15R outlet(s) |
| Output Receptacle Details | Hospital grade output receptacles |
| Output AC Waveform (AC Mode) | Sine wave |
| Output AC Waveform (Battery Mode) | PWM sine wave |
| 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 Cord Length (ft.) | 6 |
| Input Cord Length (m) | 1.8 |
| Input Phase | Single-Phase |
| 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% |



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|---|---|
| Internal UPS Replacement Battery Cartridge | RBC53 |
| Battery Access | Battery access door |
| 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% |
| LEDS ALARMS & SWITCHES | |
| LED Indicators | 5 LEDs indicate line power, battery power, overload, voltage regulation and battery low/replace status |
| Audible Alarm | Audible alarm indicates power-failure, overload and low-battery conditions |
| Alarm Cancel Operation | Power-fail alarm can be silenced using alarm-cancel switch; once silenced, alarm will re-sound to indicate low-battery status |
| Switches | 2 Switches control off/on power status and alarm-cancel/self-test operation |
| SURGE / NOISE SUPPRESSION | |
| UPS AC Suppression Joule Rating | 480 |
| UPS AC Suppression Response Time | Instantaneous |
| EMI / RFI AC Noise Suppression | Yes |
| AC Suppression Joule Rating | 480 |
| AC Suppression Response Time | Instantaneous |
| ISOLATION | |
| Output Isolation Transformer | Hospital grade load isolation transformer |
| Leakage Current | Equal to 100 microamps |
| PHYSICAL | |
| 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) | 32.4 x 19 x 22.9 |
| UPS Power Module Weight (lbs.) | 44.2 |



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|---|---|
| UPS Power Module Weight (kg) | 20.1 |
| UPS Shipping Dimensions (hwd / in.) | 18.2 x 11.8 x 13.5 |
| UPS Shipping Dimensions (hwd / cm) | 46.4 x 29.8 x 34.3 |
| Shipping Weight (lbs.) | 49 |
| Shipping Weight (kg) | 22.2 |
| Cooling Method | Fan |
| UPS Housing Material | PVC |
| 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 | |
| Communications Interface | USB; DB9 Serial |
| Network Monitoring Port Description | Supports detailed monitoring of UPS and site power conditions |
| PowerAlert Software | Included |
| Communications Cable | USB and DB9 serial cabling included |
| 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 |
| CERTIFICATIONS | |



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|-------------------------------------|---|
| UPS Certifications | Tested to UL1778 (USA); Tested to CSA (Canada); Meets FCC Part 15 Category A (EMI); Tested to UL60601-1 (medical grade) |
| WARRANTY | |
| Product Warranty Period (Worldwide) | 2-year limited warranty |

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