Omni Smart UPS System - Line-interactive battery backup and network power management with hospital grade plug and receptacles

MODEL NUMBER: **OMNISMART450HG**

Description

Tripp Lite's OMNI SMART 450HG offers UPS protection, built-in line interactive voltage regulation, intelligent monitoring and unattended shutdown capability. 450VA power handling capacity supports computers, internetworking equipment and other critical loads during commercial power failures. Line interactive voltage regulation corrects brownouts as low as 75V and overvoltages as high as 147V back to normal 120V levels, saving battery reserves for use only during complete power failures. Includes 4 hospital grade outlets, diagnostic LEDs and built-in DB9 communications port that works with web downloadable PowerAlert Software and cabling to provide automatic unattended shutdown of connected network and PC applications.

Features

- Ideal UPS protection for mission critical equipment and computers where hospital-grade input/output connections are required
- Provides connected equipment with continuous power during short and long duration loss of commercial power
- Line interactive voltage regulation corrects brownouts and overvoltages from 75 to 147 volts back to usable 120V output levels, without using battery power
- Hospital-grade plug and outlets offer added degree of safety to input/output connections
- Supports loads up to 450VA /280 watts
- 17 minutes half load runtime (with 225VA load), 5 minutes full load runtime (with 450VA load)
- Hospital grade input plug and 4 NEMA5-15R hospital grade output receptacles
- 1 DB9 serial port for network interface; SNMP compatible
- Surge portection and EMI/RFI noise filtering
- PowerAlert UPS monitoring and auto-shutdown software available for free download from tripplite.eaton.com
- Includes complete cabling for remote monitoring via PowerAlert software
- 4 diagnostic LEDs indicate AC present, on battery, voltage correction & battery low/replace
- Battery replacement door
- 2 year product warranty

Highlights

- 450VA line interactive tower UPS
- Hospital grade plug and 4 NEMA5-15R hospital grade output receptacles
- Corrects brownouts as low as 75V and overvoltages to 147V without using battery power
- DB9 communications port

Package Includes

- OMNI SMART 450HG UPS System
- RS-232 remote monitoring cable
- Instruction manual with warranty information

Specifications

INPUT	
UPS Input Cord Length (ft.)	6
UPS Input Cord Length (m)	1.8
Recommended Electrical Service	120V
Maximum Input Amps	2.8
Maximum Input Watts	320
Input Connection Type	NEMA 5-15P Hospital-Grade
Voltage Compatibility (VAC)	120

OUTPUT	
Frequency Compatibility	60 Hz
Output Nominal Voltage	120V nominal
Output Voltage Regulation	LINE MODE: Sine wave line voltage 120V (-18% / +8%) BATTERY MODE: PWM sine wave output 120V +/-5%
Output Frequency Regulation	LINE MODE: Passes line frequency of 60Hz. +/-10% BATTERY MODE: Inverter output regulated to 60Hz +/-0.5Hz

BATTERY	
Runtime Full Load (min.)	5 min.
Runtime Half Load (min.)	17 min.
DC System Voltage (VDC)	12
Battery Access	Battery access door allows hot swap battery replacement without powering connected equipment off
Typical Battery Lifespan	3-6 years, depending on usage
Battery Charge	2-4 hours to 90%

VOLTAGE REGULATION	
Voltage Regulation Description	Automatic Voltage Regulation (AVR) circuits maintain clean, regulated computer-grade 120V nominal output, without using battery power, during brownouts to 75V and overvoltages to 147V
Overvoltage Correction	Input voltages between 128 and 147V AC are reduced by 12%
Brownout Correction	Input voltages between 93 and 107V AC are boosted by 14%
Severe Brownout Correction	Input voltages between 75 and 92V AC are boosted by 30%

USER INTERFACE, ALERTS & CONTROLS	
Front Panel LEDs	4 front-panel indicator LEDs show line power status, battery power status, battery low/replace status and voltage regulation operation
Switches	Yes, includes 2 front panel mounted push-button switches for system enable, self-test and alarm cancel functions
Audible Alarm	Audible alarm indicates power failure conditions, silenceable via alarm cancel switch. Once cancelled, alarm will resume when approximately 2 minutes of battery operation remain (assuming full load).

SURGE / NOISE SUPPRESSION	
EMI / RFI AC Noise Suppression	Yes
AC Suppression Response Time	Instantaneous

PHYSICAL	
Material of Construction	PVC
Cooling Method	Convection
Form Factors Supported	Tower, wall mountable with optional UPSWM accessory
Unit Dimensions (hwd / in.)	10.750 x 5.250 x 7.250
Unit Dimensions (hwd / cm)	27.3 x 13.3 x 18.4

Unit Weight (lbs.)	21
Unit Weight (kg)	9.53

ENVIRONMENTAL	
Relative Humidity	0 to 95%, non-condensing

COMMUNICATIONS	
Network Monitoring Port	Includes built-in basic DB9 monitoring port
SNMP Compatibility	External accessory "SNMP-SOLO" SNMP / Web adapter available

LINE / BATTERY TRANSFER	
Transfer Time (Line Power to Battery Mode)	2-4 milliseconds
Low Voltage Transfer to Battery Power	75V (resets to line power as voltage increases to 79V)
High Voltage Transfer to Battery Power	147V (resets to line power as voltage decreases to 143V)

FEATURES & SPECIFICATIONS	
Cold Start	Yes, inverter can be "cold started" to enable temporary AC output during a power failure

WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	2-year limited warranty
Optional Coverage	3 year, 5 year, next day and on-site warranty coverage available