

# Omni Smart UPS System

Line-interactive battery backup and network power management with hospital grade plug and receptacles



**Cisco**  
Compatible

**CISCO SYSTEMS**  
Technology  
Developer  
Partner

## Model #: OMNISMART450HG

- ▶ 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

## 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.

## KEY BUYING POINTS

- 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 protection and EMI/RFI noise filtering
- PowerAlert UPS monitoring and auto-shutdown software available for free download from [www.tripplite.com](http://www.tripplite.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

## TYPICAL APPLICATIONS

- Ideal UPS protection for network workstations, small office file servers and PC systems

## OPTIONS & ACCESSORIES

- SNMP accessories: [SNMPWEBSOLO](#), [ENVIROSENSE](#)
- Dataline protectors: [DNET1](#), [DTEL2](#), [DCATV](#)
- Wallmount Bracket: [UPSWM](#)
- Circuit Tester: [CT120](#)

- Extended warranties: 3 Year [WEXT3-OMNI](#), 5 Year [WEXT5-OMNI](#)

## PACKAGE INCLUDES

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

## COMPLETE SPECIFICATIONS

### SYSTEM OVERVIEW

<b>System overview:</b>	Line Interactive UPS system with hospital grade plug and outlets, meets, line interactive voltage regulation, AC surge suppression and DB9 communications port
<b>Voltage compatibility:</b>	120 V AC
<b>Frequency compatibility:</b>	60 Hz

### OUTPUT

<b>Output volt amp capacity (VA):</b>	450
<b>Output watt capacity (watts):</b>	280
<b>Output nominal voltage:</b>	120V nominal
<b>Output voltage regulation:</b>	LINE MODE: Sine wave line voltage 120V (-18% / +8%) BATTERY MODE: PWM sine wave output 120V +/-5%
<b>Output frequency regulation:</b>	LINE MODE: Passes line frequency of 60Hz. +/-10% BATTERY MODE: Inverter output regulated to 60Hz +/-0.5Hz
<b>Outlet quantity / type:</b>	4 NEMA5-15R Hospital Grade Output Receptacles

### INPUT

<b>Maximum input amps:</b>	2.8A / 320 watts
<b>Input connection type:</b>	NEMA 5-15P Hospital-Grade
<b>Input cord length:</b>	6 ft, 14 gauge
<b>Recommended electrical service:</b>	15A 120V

### BATTERY

<b>Full load runtime:</b>	5 minutes (450VA)
<b>Half load runtime:</b>	17 minutes (225VA)
<b>DC system voltage:</b>	12 VDC
<b>Typical battery lifespan:</b>	3-6 years, depending on usage
<b>Battery recharge rate:</b>	2-4 hours to 90%

### VOLTAGE REGULATION

<b>Voltage regulation description:</b>	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
<b>Overvoltage correction:</b>	Input voltages between 128 and 147V AC are reduced by 12%
<b>Direct pass through:</b>	Input voltages between 108 and 127V AC are passed on to connected equipment unchanged
<b>Brownout correction:</b>	Input voltages between 93 and 107V AC are boosted by 14%
<b>Severe brownout correction:</b>	Input voltages between 75 and 92V AC are boosted by 30%

### LEDS ALARMS & SWITCHES

<b>Front panel LEDs:</b>	4 front-panel indicator LEDs show line power status, battery power status, battery low/replace status and voltage regulation operation
<b>Alarms:</b>	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).
<b>Switches:</b>	Yes, includes 2 front panel mounted push-button switches for system enable, self-test and alarm cancel functions

## **SURGE / NOISE SUPPRESSION**

<b>AC surge suppression:</b>	Conforms to IEEE 587 / ANSI C62.41 specifications
<b>AC suppression response time:</b>	Instantaneous
<b>EMI / RFI AC noise suppression:</b>	Yes

## **PHYSICAL**

<b>Shipping weight (lbs):</b>	23
<b>Shipping weight (kg):</b>	10.4
<b>Unit weight (lbs):</b>	21
<b>Unit weight (kg):</b>	9.5
<b>Unit Dimensions (HWD/in):</b>	10.75 x 5.25 x 7.25
<b>Unit Dimensions (HWD/cm):</b>	27.3 x 13.3 x 18.4
<b>Material of construction:</b>	PVC
<b>Form factors supported:</b>	Tower, wall mountable with optional UPSWM accessory
<b>Cooling method:</b>	Convection
<b>Battery Access:</b>	Battery access door allows hot swap battery replacement without powering connected equipment off

## **ENVIRONMENTAL**

<b>Operating Temperature:</b>	+32 to +104 degrees Fahrenheit 0 to +40 degrees Celsius
<b>Storage Temperature:</b>	+5 to +122 degrees Fahrenheit -15 to +50 degrees Celsius
<b>Relative Humidity:</b>	0 to 95%, non-condensing

## **COMMUNICATIONS**

<b>Network monitoring port:</b>	Includes built-in basic DB9 monitoring port
<b>Software and cabling included:</b>	PowerAlert UPS monitoring software available via web download for all common network and standalone operating systems. Ships with 1 cable.
<b>SNMP compatibility:</b>	External accessory "SNMP-SOLO" SNMP / Web adapter available

## **LINE / BATTERY TRANSFER**

<b>Transfer time from line power to battery mode:</b>	2-4 milliseconds
<b>Low voltage transfer to battery power:</b>	75V (resets to line power as voltage increases to 79V)
<b>High voltage transfer to battery power:</b>	147V (resets to line power as voltage decreases to 143V)

## **CERTIFICATIONS**

<b>Certifications:</b>	UL1778 (USA, Series AGOM700KSR61), cUL (Canada), FCC Class A (emissions)
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## **WARRANTY**

<b>Optional coverage:</b>	3 year, 5 year, next day and on-site warranty coverage available
<b>Product warranty:</b>	2 year product warranty

## **SPECIAL FEATURES**

**Cold Start:**

Yes, inverter can be "cold started" to enable temporary AC output during a power failure

**Appearance:**

Attractive gray tower UPS

*The policy of Tripp Lite is one of continuous improvement.  
Specifications are subject to change without notice.  
Therefore, your product may vary slightly from what is currently listed.*



**Tripp Lite World Headquarters**  
1111 W. 35th Street  
Chicago, IL 60609 USA

**Customer Support**  
(773) 869-1234

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