

OmniSmart 230V 350VA 225W CE/IEC 60601-1 Medical Grade Line-Interactive UPS with Built-In Isolation Transformer

AL-84012



Highlights

- 350VA line interactive tower UPS
- Professional features include USB port, IEC320 plug & outlets, built-in isolation transformer
- Input: IEC320 C14 inlet (230V) / Output: 6 IEC320 C13 (230V)
- 2 line phone suppression for TEL/DSL line protection

Package Includes

- Hospital Grade UPS System
- USB communication and telephone cables included
- Warranty information
- Instruction manual

Description

The AL-84012 offers medical-grade UPS protection with built-in line interactive voltage regulation, intelligent monitoring and unattended shutdown capability. IEC320 plug & outlets, plus built-in isolation transformer with Faraday shield offers full isolation and removes common mode noise. Tested to CE/IEC 60601-1 as medical electrical equipment. 350VA 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 159V back to normal 230V levels, saving battery reserves for use only during complete power failures. Includes, 2 line phone surge suppression and built-in USB communications port that works with 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 CE/ IEC 60601-1 electrical medical equipment is required
- Line-interactive voltage regulation corrects brownouts as low as 159V without using battery power
- IEC320 plug and outlets offer added degree of safety and reliability to input/output connections
- Full line isolation prevents shock potential and operational problems in sensitive electronic equipment
- Resistant to electrostatic discharge
- Supports loads up to 350VA/225 watts
- 37 minutes half load runtime (with 175VA load), 15.5 minutes full load runtime (with 350VA load)
- 6 protected outlets; 6-inch dongle with IEC C14 inlet
- C14 inlet accepts user-supplied AC power cord with grounded country-specific plug
- 1-USB port for monitoring interface
- Complete surge protection, line isolation and EMI/RFI noise filtering
- 2 phone line surge suppression for modems, fax machines and other phone accessories
- Complete remote monitoring cabling included, PowerAlert UPS management software available via free download
- 4 diagnostic LEDs indicate AC present, on battery, voltage correction & battery low/replace
- Battery replacement door and back panel equipotential connection (grounding lug)

Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	350
Output Watt Capacity (Watts)	225
Nominal Output Voltage(s) Supported	220V; 230V; 240V
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 Receptacles	(6) C13
Output AC Waveform (Battery Mode)	PWM sine wave
INPUT	
Rated input current (Maximum Load)	1.8A
Nominal Input Voltage(s) Supported	230V AC
UPS Input Connection Type	C14 inlet
UPS Input Connection Description	C14 inlet accepts user-supplied AC power cord with grounded country-specific plug
UPS Input Cord Length (ft.)	0.50
UPS Input Cord Length (m)	1.83
Recommended Electrical Service	10A 230V
Voltage Compatibility (VAC)	230
Input Phase	Single-Phase
BATTERY	
Full Load Runtime (min.)	15.5 min. (225w)
Half Load Runtime (min.)	37 min. (115w)
DC System Voltage (VDC)	12
Battery Recharge Rate (Included Batteries)	Less than 7.2 hours from 10% to 90%
Internal UPS Replacement Battery Cartridge	AL-84149 (quantity 2)
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 a single boost level of brownout correction to maintain usable, computer grade output
Undervoltage Correction	Input voltages between 159 and 199 are boosted by 14%
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	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)
LED Indicators	4 LEDs indicate line power, battery power, overload and battery low/replace status
SURGE / NOISE SUPPRESSION	
EMI / RFI AC Noise Suppression	Yes
AC Suppression Response Time	Instantaneous
Dataline Suppression	2-Line Tel/DSL
PHYSICAL	
Installation Form Factors Supported with Included Accessories	Tower
Installation Form Factors Supported with Optional Accessories	Wallmount(AL-84127 - tower mounting kit)
Primary Form Factor	Tower
UPS Power Module Dimensions (hwd, in.)	10.6 x 5.2 x 7.4
UPS Power Module Dimensions (hwd, cm)	26.9 x 13.1 x 18.8
UPS Power Module Weight (lbs.)	25.4
UPS Power Module Weight (kg)	11.5
UPS Shipping Dimensions (hwd / in.)	14.1 x 10.4 x 8.2
UPS Shipping Dimensions (hwd / cm)	35.9 x 26.5 x 20.9
Shipping Weight (lbs.)	27.4
Shipping Weight (kg)	12.3
Cooling Method	Convection
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)	15.6
Battery Mode BTU / Hr. (Full Load)	124.5
COMMUNICATIONS	
Communications Interface	USB
LINE / BATTERY TRANSFER	
Transfer Time	5 milliseconds AC to battery; 8 milliseconds battery to AC
Low Voltage Transfer to Battery Power (Setpoint)	159
High Voltage Transfer to Battery Power (Setpoint)	266
SPECIAL FEATURES	
Grounding Lug	Ground Potential Equalization Connector: POAG-S6/20
Cold Start (Startup in Battery Mode During a Power Failure)	Cold-start operation supported
CERTIFICATIONS	
UPS Certifications	CE; Tested to UL60601-1 (medical grade)
Certifications	Tested to CE/ IEC 60601-1 (Series AGOM6832), Class B (emissions)
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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