

## SmartPro .5kVA Line-Interactive UPS, option, 1U Rack/Tower, USB, Serial, EPO, 120V

MODEL NUMBER: **AL-81615**



### Description

AL-81615 intelligent, line-interactive rack/tower uninterruptible power supply prevents data loss, downtime and equipment damage due to power outages, voltage fluctuations and transient surges.

Requires only one rack space (1U) in a 2 or 4 post rack, with included accessories for upright tower placement. Large internal batteries offer 14.6 minutes half load runtime and 3.2 minutes at full load. Maintains regulated 120V nominal output without using battery power during brownouts as low as 90V. 500VA/300 watt power handling capability is compatible with networking, telecom and other sensitive electronic applications. Includes 6 UPS supported outlets with a single outlet load bank that can be individually controlled via software interface to reboot select equipment on demand or shed less significant loads to extend battery runtime for more critical equipment. Includes 1 surge-only outlet for peripherals not requiring battery backup.

Supports simultaneous remote monitoring of UPS and site power conditions via built-in USB and DB9 monitoring ports. Includes PowerAlert UPS monitoring and unattended shutdown software with complete cabling. Built-in accessory slot supports SNMP with optional adapter. Emergency Power Off (EPO) interface offers option for instantaneous power-off of UPS and connected equipment in the case of fire or emergency situation. Multi-function audible alarms and set of 5 front panel LEDs offer at-a-glance notification of UPS and line power status. Network-grade AC surge suppression protects equipment from damage and performance problems resulting from transient surges and line noise. Attractive all-black color scheme.

### Features

- AL-81615 .5 kVA / 500VA / 300 watt line interactive UPS
- 1U rack / tower compatible form factor
- NEMA 5-15P input connection; 7 NEMA 5-15R output receptacles
- Installed depth of only 11.8 in / 29.8 cm
- Large internal batteries offer runtimes of 14.6 minutes at half load (250VA/150 watts) and 3.2 minutes at full load (500VA/300 watts)
- Maintains regulated 120V nominal output during brownouts as low as 90V
- Includes 6 UPS-supported outlets and 1 surge-only outlet
- One of the UPS supported outlets is switched for remote load shedding or rebooting of an individual device
- PowerAlert UPS monitoring software enables detailed site power and UPS status updates with support for unattended shutdown of connected systems

### Highlights

- 500VA line-interactive 1U rack/tower UPS
- 120V nominal output during brownouts as low as 90V
- USB, RS232, EPO and optional SNMP/Web card are available for simultaneous use
- Front panel status LEDs; 1 switched output load bank
- NEMA 5-15P input; 7 NEMA 5-15R outlets

### Package Includes

- AL-81615 UPS System
- Mounting hardware
- Cabling for USB & DB9 monitoring and EPO switching
- PowerAlert unattended shutdown and UPS/Power monitoring software
- Instruction manual

as UPS batteries become depleted

- Supports detailed monitoring of equipment load levels, self-test data, and utility power condition via built-in RS-232 and USB interfaces
- HID-compliant USB interface enables integration with built-in power management and auto-shutdown of windows and Mac OS X
- Optional SNMPWBCARD offers communications and control via secure remote web and network interfaces
- Emergency Power Off (EPO) interface with cable
- Multi-function audible alarms and set of 5 front panel LEDs
- Network-grade AC surge suppression
- Field-replaceable, hot-swappable internal UPS batteries

## Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	500
Output Watt Capacity (watts)	300
Output power factor	0.6
Nominal Output Voltage(s) Supported	120V
Frequency compatibility	60 Hz
Output voltage regulation (line mode)	-15%, +13%
Output voltage regulation (Battery mode)	+/- 5%
Built-in UPS output receptacles	6 5-15R outlet(s)
Surge suppression only outlets	6 UPS outlets, 1 surge-only outlets
Built-in controllable switched load banks	One switchable single-outlet 5-15R load bank
Output AC waveform (AC mode)	Sine wave
Output AC waveform (battery mode)	PWM sine wave
INPUT	
Rated input current (at maximum load)	5.6A
Nominal Input Voltage(s) Supported	120V AC
UPS input connection type	5-15P
Input circuit breaker	15A
UPS Input cord length (ft.)	10
UPS Input cord length (m)	4.5
Recommended Electrical Service	15A 120V

Phase	Single-Phase
<b>BATTERY</b>	
Full load runtime (minutes)	3.2 min. (300w)
Half load runtime (minutes)	14.6 min. (150w)
DC system voltage (VDC)	12
Battery recharge rate (included batteries)	Less than 4 hours from 10% to 90%
Replacement battery cartridge (internal UPS battery replacement)	
Battery Access	Battery access door
Battery replacement description	Hot-swappable, user replaceable batteries
<b>VOLTAGE REGULATION</b>	
Voltage regulation description	Automatic voltage regulation (AVR) maintains line power operation with input voltage as low as 90
Undervoltage correction	Input voltages between 90 and 108 are boosted by 14%
<b>LEDS ALARMS &amp; SWITCHES</b>	
LED Indicators	5 LEDs indicate line power, battery power, overload, voltage regulation and battery low/replace status
Alarms	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
<b>SURGE / NOISE SUPPRESSION</b>	
UPS AC suppression joule rating	567 joules
EMI / RFI AC noise suppression	Yes
AC suppression joule rating	567
AC suppression response time	Instantaneous
<b>PHYSICAL</b>	
Installation form factors supported with included accessories	4 post 19 inch rackmount; 2 post 19 inch rackmount
Primary form factor	Rackmount
UPS / Power Module dimensions in primary form factor (height x width x depth / inches)	1.7 x 17.5 x 11.8
UPS / Power Module dimensions in primary form factor (height x width x depth / cm)	4.4 x 44.4 x 29.8

Rack Height	1U
UPS / Power Module weight (lbs)	17.6
UPS / Power Module weight (kg)	8
UPS Shipping dimensions (height x width x depth / inches)	5 x 22.5 x 16
UPS Shipping dimensions (height x width x depth / cm)	12.7 x 57.2 x 40.6
Shipping weight (lbs)	19.9
Shipping weight (kg)	9
UPS housing material	Steel
<b>ENVIRONMENTAL</b>	
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)	65.1
Battery mode BTU / hr. (full load)	287.7
AC mode efficiency rating (100% load)	94%
<b>COMMUNICATIONS</b>	
Communications interface	USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface
Network monitoring port description	Supports detailed monitoring of UPS and site power conditions
PowerAlert software	Included
Communications cable	USB and DB9 cabling included
WatchDog compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
<b>LINE / BATTERY TRANSFER</b>	
Transfer time	2-4 milliseconds
Low voltage transfer to battery power (setpoint)	90
High voltage transfer to battery power (setpoint)	136
<b>SPECIAL FEATURES</b>	
Grounding lug	Back panel grounding lug
Cold Start (startup in battery mode during a power failure)	Cold-start operation supported
High availability UPS features	Hot swappable batteries

Green & high efficiency features	Individually controllable load banks
<b>CERTIFICATIONS</b>	
UPS Certifications	Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category B (EMI)
<b>WARRANTY</b>	
Product Warranty Period (Worldwide)	2-year warranty, 3 year with registration. Note: <a href="#">Registration is required</a> for 3-year warranty.
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$250,000 <a href="#">Ultimate Lifetime Insurance</a>

## Related Items

### Optional Products

Model Number	Description	Qty.
AL-54235	Power Strip - Multiple outlets wherever you need them	1

More information, including related products, owner's manuals, and additional technical specifications, can be found online at: [www.alcosales.com](http://www.alcosales.com)