

Line Interactive Base Station Outdoor UPS

AHW-L Series

- Stable operation
- Intelligent battery management
- Intelligent detection system
- RS232, RS485, optional SNMP card or dry contacts
- High-precision SMD
- Highly adaptable
- Perfect protection functionality
- Optional battery circuit module
- Optional input harmonic filter
- Personalized settings



Ascent's AHW-L series online outdoor base station special UPS is a new period control power supply unit that features advanced software perfectly combined with smart features. This series uses low-loss large power IGBT technology and static switches for the power component. It fully adopts digital control techniques with an online programmable high-speed microprocessor (MCU), and offers perfect performance in digital electric techniques.

AHW-L series UPS are designed with environmentally friendly battery cells with high reliability and good quality. The battery cell has high power density and lower internal resistance. It conforms to internal standard such as JIS and DIN. The lead-tin-calcium alloy grids ensure long services life for the UPS.

AHW-L series UPS capacity ranges from 1 kVA to 3 kVA, can extend to 20 kVA, with 100% suitable grid environment. It is widely used in the communication industry as an outdoor communication station. The UPS also provides optional SNMP MIB software to monitor UPS status. It supports TCP/IP, UDP, TELNET and other protocols.

Key Features

- Advanced digital electric system, super stable operation.
- Intelligent battery management, durable and robust. Extend battery life by over 55%.
- Intelligent whole system detection and protection.
- Intelligent communication remote control tools: RS232 and RS485, optional SNMP card or dry contacts.
- Adopts high-precision SMD technique, high precision for the entire machine.
- Precise lifespan evaluation research helps save energy.
- Sixth generation IGBT and high-speed static switch transform technique, high reliability.
- Superior LED and LCD screen information processing technology, no restrictions between user and UPS.
- Super adaptable to the environment: reliable under harsh environments, waterproof, dustproof, freeze resistant, heat insulation, and reliable and safe functionality.
- Super load characteristics: suitable from 0% to 100% load jumping, no need to change to bypass, maintains stable output.
- Perfect protection function.
- Optional battery circuit module.
- Optional input harmonic filter.
- Personalized settings: can choose between UPS working patterns, ECO energy conservation work patterns, and EPS work patterns.

Specifications

Capacity (VA)	1000	1500	2000	3000	4000	5000
Power Watt (W)	800	1200	1600	2400	3200	4000
Work Mode	Low frequency line interactive					
Voltage Regulation Function	Adopt Relay smart multi-gear adjusting voltage					
Output Voltage Regulation Precision	±5%					
Input						
Phase	Single phase (P + N + PE)					

Input Rated Voltage	100/110/120 V AC or 220/230/240 V AC (according to user's voltage standard)		
Input Voltage Range	±25%		
Input Rated Frequency	50/60 Hz (self-adaptive)		
Battery			
Voltage	48 V DC		
Charging Mode	Three-stage Intelligent Battery Charging		
Float Charging Voltage	54 V DC		
Equalized Charging Voltage	56.4 V DC		
Temperature Compensated Voltage	3 mV /°C/cell		
Charging Power	Rated capacity × 20%		
Output			
Phase	Single phase (P + N + PE)		
Nominal Voltage	Equal to input rated voltage		
Inverter Output Voltage	100/110/115/127 V: 220/230/240 V (according to user's voltage standard)		
Inverter Output Degree of Stability	±1% (steady load), ±3% (fluctuation of load)		
Inverter Frequency Degree of Stability	50 Hz, 60 Hz ±0.5%		
Crest Factor	≥3:1		
Inverter Output THD	Pure sine wave, linear load ≤3%, non-linear load ≤5%		
Transfer Time	≤5 ms		
Protection			
Overload Protection	Overload Level	Utility Power Mode	Battery Mode
	105 % to 125 %	≥10 min.	≥1 min.
	125 % to 150 %	≥1 min.	immediate protection
	≥150 %	immediate protection	
Input Protection	Voltage, frequency ultralimit protection		
Output Protection	Overcurrent, short circuit protection		
Battery Protection	Overcharging, short circuit protection		
Temperature Protection	Overheating protection		
Hardware Fault Protection	Fuse over current protection, surge voltage protection		
Alarm Function	Audio alarm		
System Parameters			
Operating Temperature	0 to +40°C		
Operating Humidity	30 % to 90% RH		
Altitude	<2000 m (power reduces by 1% every 100 m, up to 4000 m)		
Cooling Method	Forced ventilation		
Communication Interface	RS232 (optional USB, SNMP card)		
Protection Level	IP54		
Cabinet Size (W × D × H)	700 mm × 300 mm × 1000 mm (4 pcs 12 V 38 Ah battery inside)		
	800 mm × 600 mm × 1200 mm (4 pcs 12 V 100 Ah battery inside)		
Safety Performance	I/O on ground resistance (3000 V AC), stray current less than 3.5 mA, insulation resistance exceeding 2 MΩ (500 V DC)		

Ordering Information

Model	Description
AHW-L-800-48VDC	Line Interactive Base Station Outdoor UPS 800W power, 48VDC output

Contact Information

Ascent Communication Technology Ltd

AUSTRALIA

140 William Street, Melbourne
Victoria 3000, AUSTRALIA
Phone: +61-3-8691 2902

HONG KONG SAR

Unit 9, 12th Floor, Wing Tuck Commercial Centre
177 Wing Lok Street, Sheung Wan, HONG KONG
Phone: +852-2851 4722

CHINA

Unit 1933, 600 Luban Road
200023, Shanghai CHINA
Phone: +86-21-60232616

USA

2710 Thomes Ave, Cheyenne
WY 82001, USA
Phone: +1-203 816 5188

EUROPE

Pfarrer-Bensheimer-Strasse 7a
55129 Mainz, GERMANY
Phone: +49 (0) 6136 926 3246

VIETNAM

15 /F TTC Building, Duy Tan Street, Cau Giay Dist.
Hanoi, VIETNAM
Phone: +84 243 795 5917

WEB: www.ascentcomtec.com **EMAIL:** sales@ascentcomtec.com

Specifications and product availability are subject to change without notice.

Copyright © 2016 Ascent Communication Technology Limited. All rights reserved.

Ver. ACT_AHW-L-Series_UPS_Datasheet_V1a_Apr_2016