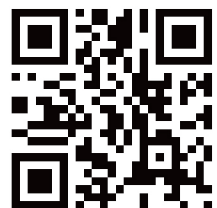


**Soltec**  
The professional power people

## AHR Series

3 Phase modular UPS 60kVA-200kVA



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# AHR Series 60kVA-200kVA Modular UPS

## Introduction :

AHR series UPS is 3-phase on-line UPS, in which the advanced 3-level inverter and latest DSP-controlled technology are employed.

Modular N+X parallel redundancy design ensures the normal operation all the time even though one of power module is in fault.

And hot-swappable feature ensure UPS normal operations to the load without interruption during maintenance and replacement with low MTTR (Mean Time To Repair).

## Application :

Telecommunication control room, IDC center, Computer system, and high precision instruments, etc.

## Features

### High Safety

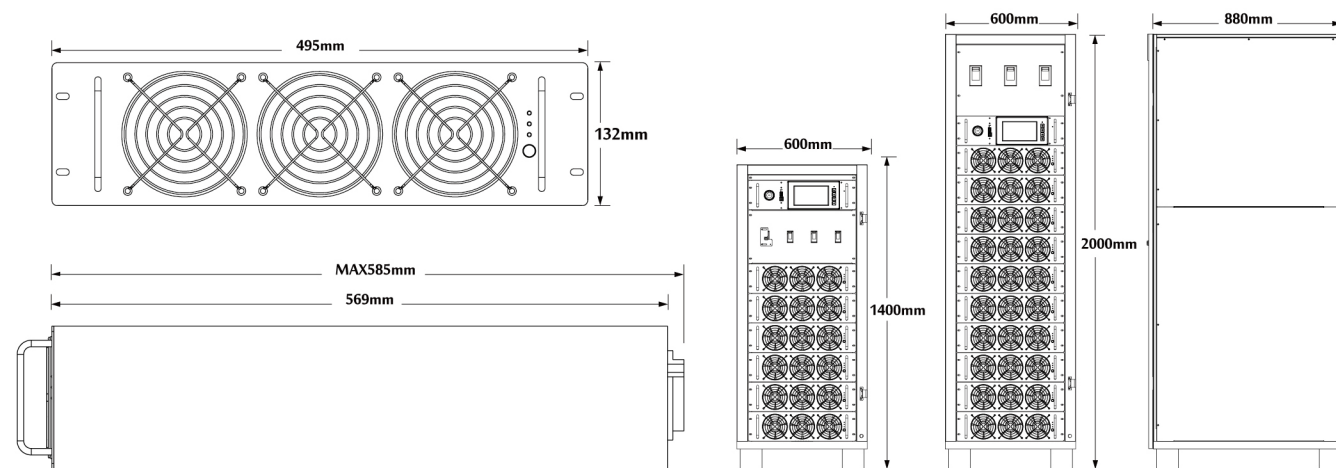
- By employing TI' s DSP control, the processing speed and fault protection become much better.
- By using advanced 3-level inverter technology, it has good output wave form and high over-all efficiency.
- With cold-start function, the UPS can be started up without AC input.
- Because the input power factor is up to 0.999, the energy efficiency can be improved a lots, the grid load becomes lower, and the cost of electricity distribution can be reduced.
- Intelligent battery management: it is automatically converting boost or float charge, temperate compensate to avoid over or less charge; adjusted the cut off voltage of discharge according to load capacity, greatly extend life of the battery pack.
- With intelligent fan speed control, the fan speed is depended on the load capacity to extend the life of fan.
- Under ECO energy-saving mode, the efficiency of UPS system can be more than 99%, suitable for the area of good AC quality.
- And it can quickly switch back to inverter mode within 5ms.
- Manual bypass design ensures uninterrupted operations during maintenance and the system becomes more reliable.

### Easy Operation

- Each of power modular is independent and no the problem of compatibility. It meets the demand of hot-swappable feature.
- 7" touch-screen LCD provides UPS operating data and records of historical events.

### Multiple Communication Interface

- Inbuilt RS232, RS485, SNMP and multiple input and output dry contact ports.



# AHR Series 60kVA-200kVA Specification

MODEL	AHR-603K	AHR-104K	AHR-124K	AHR-204K	AHR-124K-277V	AHR-204K-277V	
Capacity VA / Watt	60kVA/54kW	100kVA/90kW	120kVA/108kW	200kVA/180kW	120kVA/120kW	200kVA/200kW	
Power Module Capacity	10kVA/9kW		20kVA/18kW		20kVA/20kW		
<b>INPUT</b>							
Nominal Voltage	120/208V(3P4W + G)		220/380V(3P4W + G)		277/480V(3P4W + G)		
Voltage Range	±15%(±10% / ±20% selectable)		±25% ( ±20% / ±15% selectable)		±15%(±10% / ±20% selectable)		
Frequency Range	50/60Hz ±10%(±5% selectable)						
Bypass Synchronization	50/60Hz ±5%(±10% selectable)						
Bypass Voltage Range	+15% ( +10% / +20% selectable) -20% (-15% / -30% selectable)						
Power Factor	≥0.99						
Total Harmonic Distortion (THDi)	Linear load(full load) ≤3% ; Non-linear load(full load) ≤5%						
<b>OUTPUT</b>							
Voltage	120/208V(3P4W+G or 3P3W+G)		220/380V(3P4W+G or 3P3W+G)		277/480V(3P4W+G or 3P3W+G)		
Voltage Regulation	±1%(Static)						
Frequency	Synchronized (AC mode);50/60Hz ± 0.2%(Battery mode)						
Phase Difference	Balanced load: ≤2° ; Unbalanced load: ≤5°						
Total Harmonic Distortion (THDv)	Linear load: ≤3% ; Non-linear load: ≤6%						
Bypass Inverter Transfer Time	Synchronized:0ms ; Asynchronous < 20ms						
Efficiency	AC mode ≥92.5% ; Battery mode ≥95%		AC mode ≥94% ; Battery mode ≥97%		AC mode ≥95% ; Battery mode ≥97%		
Overload Capability	125% : 10 minutes						
Current Sharing	<5%						
Dc Component	≤100mV						
Unbalance Load Capability	100% unbalanced load						
<b>BATTERY</b>							
Nominal Voltage	±192Vdc		±360Vdc		±408Vdc		
Charging Current	Max. 30A	Max. 50A	Max. 30A	Max. 50A	Max. 30A	Max. 50A	
Protection of Battery Deep Discharge	Yes						
Battery Start	Yes						
<b>ENVIRONMENT</b>							
Operating Temperature	0 - 40 °C (32 - 104 °F)						
Relative Humidity	<95%(non-condensing)						
Audible Noise(At 1M)	<63 dBA						
Protection(IP degree)	IP20						
<b>DISPLAY</b>							
LCD	7 inch touch-screen LCD, Multi-language supported						
LED	UPS working status						
<b>INTERFACE</b>							
Standard	Input dry contact, output dry contact, RS232/RS485, SNMP(optional)						
<b>PHYSICAL</b>							
Dimensions(W * D * H)	600*900*1400mm	600*900*2000mm	600*900*1400mm	600*900*2000mm	600*900*1400mm	600*900*2000mm	
Weight	UPS System	327kg(N.W.), 362kg(G.W.)	500kg(N.W.), 540kg(G.W.)	345kg(N.W.), 380kg(G.W.)	538kg(N.W.), 570kg(G.W.)	345kg(N.W.), 380kg(G.W.)	538kg(N.W.), 570kg(G.W.)
	Power Module	22.1kg(N.W.),24.3kg(G.W.)		25.1kg(N.W.), 27.3kg(G.W.)			

\* All specifications mentioned above are subject to change without prior notice