AHA-H/HR Series Specification

MODEL		AHA-103H/HR	AHA-203H/HR	AHA-303H/HR	AHA-603H	AHA-104H	AHA-3104H	AHA-3154H	AHA-3204H	
Capacity	VA / Watt	1kVA/700W	2kVA/1400W	3kVA/2100W	6kVA/4200W	10kVA/7	kW	15kVA/10.5kW	20kVA/14kW	
INPUT										
Phase Single Phase 3 Phase										
Nominal Voltage			110Vac / 220Vac		1P2W 220Vac			3P4W 380Vac		
Voltage Range		160-300Vac(70%-100%load),140-300Vac			176-276Vac ±3Vac		304-478Vac			
Frequency		(50%-70% load),110-300Vac (0%-50% load)			50Hz / 60Hz ± 4Hz					
Power Factor		≥0.95 ≥0.97			≥0.98 ≥0.95					
OUTPUT							_0.00			
Voltage		220VAC ± 2% (230V or 240V re-settable via LCD panel) 220VAC ± 1% (230V or 240V re-settable via LCD panel)								
Гтолиопои		110VAC ± 2% (110V, 115V or 120V re-settable via LCD panel)								
Frequency Ways Form		Synchronized (Line mode) : 50Hz or 60Hz +/-0.5% (Battery mode)								
Wave Form				True sine wave						
Distortion	Tower	≤3%(Linear load)	≤4% (Lin	The state of the s	≤4% (Linear load)					
		≤6%(Non-linear load)				≤7% (Non-linear load)				
	Rack	≤4% (Linear load) ,≤7% (Non-linear load)					N/A			
Overload Capacity		112%~150%: 30sec.; >150%: 200msec.			105%~130% : 10min. ; >130%: 1sec.					
Crest Ratio		3:1								
BATTERY										
DC Voltage		36V 96V			240V					
Capacity		12V / 7Ah×3 pcs	12V / 7/	Ah×8pcs	12V/7Ah×20pcs	12V/9Ah×20pcs	Depend on the capacity of external batteries			
Back-up Time		>5min	>9min	> 5min	>8 min	>5 min	Depend on t	he capacity of exte	emal batteries	
CHARGER								1 2		
Built-In /Option		1Amp/8Amp 1Amp/8Amp 2.1Amp/4.2Amp (2 steps)					4.2 Amp(2 Steps)			
Recharging Time		77 W. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	5 hrs to 90%		7 hrs to 90%	8 hrs to 90%		he capacity of exte		
BYPASS			01113 10 0070		7 1113 to 50 70	0 1113 10 30 70	Depend on t	ne capacity of exa	ornar batteries	
Automatic		Overload or UPS fault								
By Setting		Voltage range: 176~256V±20V (Re-settable via LCD panel)			NA					
Transfer Time		0 ms (2.5ms inverter to bypass) 0 ms (AC to DC & inverter to bypass)								
INDICATOR		UPO data UPO O principal de la Companya de la Compa								
LCD (Series)		UPS status, I/P&O/P voltage/frequency, load %, battery voltage, battery capacity %, temperature, model spec., event log. LED: Normal (Green), Warning (Yellow), Fault (Red)								
LED (Series)		Normal (Green), Bypass(Yellow), Battery low (Yellow), Inverter (Green), Load% (5 LEDs), Battery % (5 LEDs), Fault (Red)								
OUTLET										
Tower		NEMAx3pcs or IEC320x4pcs	NEMA*3pcs+TB*1 or NEMA*6pcs	NEMA*3pcs+TB*1 or NEMA*6pcs	Terminal blocks					
Deals		NEMAx4pcs	or IEC320x6pcs NEMAx2+TBx1	or IEC320x3+ TBx1 NEMAx2+TBx1	- · · · · ·					
Rack		or IEC320x4pcs	or IEC320x4pcs	or IEC320x1+TBx1	Terminal blocks					
AUDIBLE ALARM										
Battery Mode		Beeping every 4 seconds (re-settable)								
Battery Low		Beeping every second								
Overload		Beeping twice per second								
Fault		Beeping continuously								
INTERFACE										
RS-232 Interface	e		UPSi on2000 monitoring software for Windows all, Unix systems and Novell							
Multi-Interface S		SNMP card, AS 400, dry contact, USB selectable								
Network		The date; it is a first and a second of the								
Surge Protection		RJ45 I/O port for Network or RJ 11 for Fax / Modem N/A								
Parallel		N/A Available (option)								
ENVIRONMEN	T									
Temperature				0	-40 °C (32 - 104 °F)					
Humidity		0-95% (non-condensing)								
Audible Noise(A	At 1M)	<45 dBA <50 dBA			< 55 dBA < 60 dBA			dBA		
PHYSICAL		COS SIGN COS SIGN								
Weight(Kg, without battery) Weight(Kg, with battery)		6.5 (Tower)	13.5 (Tower)	14.5 (Tower)	35	38	38.5	55	55	
		8.0 (Rack)	9.5 (Rack)	10.5 (Rack)						
		15 (Tower) 15.5 (Rack)	34 (Tower) N/A (Rack)	35 (Tower) N/A (Rack)	90	93	-	_	_	
Dimensions Tower		160*220*400	200*3	52*450		26	0*717*570			
(W*H*D)mm	Rack		440*88*465		482.6*1	76*600		NA		
* Tower Serie	s: AHA-H.Racl	k Series: AHA-HR								

- * Tower Series: AHA-H,Rack Series: AHA-HR
- * Output power factor 0.8 is available
- * Rack Battery Bank(2U) is available for 8pcs(1 set)12V/7Ah and 9 pcs(3 sets)12V/7Ah batteries
- * 1kVA/3kVA 110V is available
- All specificaiton mentioned above are sujbect to change without prior notice





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On-Line UPS 1kVA-20kVA



Features

- True sine wave double conversion on-line UPS
- Multiple Microprocessor High frequency design & DSP Technology
- Unity input power factor and wide input range
- Extended backup time
- Two-way dialogue interactive dot-matrix LCD control panel
- Detachable LCD or LED Control Panel selectable.
- Communication ports selectable: Smart RS232, SNMP, AS-400, USB and DB-9
- DC start and automatic self-diagnostic function
- Low heat dissipation in long time operation
- High efficiency design to save electicity
- Enhanced protections against lighting surges, disturbances etc.
- Designed to operate under harsh environment
- 6KVA-20KVA support Parallel Redundancy function & Capacity Expansion
- 10KVA-20KVA built in two-step charger to reduce charging time

Features & Advantages

AHA-H/HR Series On-Line is designed with latest technology, making it distinguished by its performance and reliability. The input range is extraordinary wide from 118V to 300V so that the UPS can still run well in areas of poor utility and be robust in various applications. It also eliminates unnecessary battery discharges to prolong the life expectancy of battery. The rectifier stage of AHA-H/HR series implements high frequency, PWM, and power factor correction method. Therefore, the input current is purely sine wave, and power factor can be over 95%.

AHA-H/HR Series have very small harmonic current drawn from the utility. That is, it generates no interference to the utility. Beside, the inverter of the unit adopts newest and tough IGBT, high frequency PWM method. So it can response quickly to load change, especially the impressing capsbility of starting cimputer load. All power stages are carefully designed to optimal efficiency so as to save the user's running cost, and minimize heat dissipation. The unit, controlled by the innovative software programs, can self-diagnose all the time and provides various status and data displayed clearly on the panel.

LCD Control Panel

AHA-H/HR Series built-in intelligent two-way dialogue interactive dot-matrix LCD control panel provide monitoring as well as management access to the UPS. Detachable design, enable remotely control and status monitoring from remote site to suit users' convenience. An economical, plain LED display, exactly the same size as LCD panel is selectable.



Tower and Rack Models

Tower and rack models are both available. Tower model can minimize occupied space. Rack mount model can fit in the equipment rack to make the server room neat and clean. Rack mount model UPS come with the same size battery bank which matches the UPS.

AHA-HR 1K-2K-3K Rack



Rack Battery Bank



AHA-H/HR Series 1KVA-20KVA On-Line UPS

6KVA-20KVA N+ 1 Parallel redunfancy

6KVA-20KVA, specially designed to provide redundant power protection solution, is able to perform parallel up to 3 UPS systems. With the high frequency PWM technology, the UPS attains high input power factor over 95% and avoids significant harmonic interference on the power workshop. The higher efficiency of the inverter enhances the overall efficiency of UPS and reduces the noise of the inverter as well.





6K-20K Paeallel Redundancy

Multiple interfaces cards

with a Multi-interface slot and an additional multi-interface card, various communications combinations are selectable. Including RS232, SNMP, RS485, AS - 400, modbus, USB, dry contact and customized interfaces. All interfaces enable at the same time.

AHA-H 6K-20K Tower



AHA-H 2K-3K Tower

