

# AHA-H/HR Series Specification

MODEL		AHA-103H/HR	AHA-203H/HR	AHA-303H/HR
Capacity	VA / Watt	1kVA/700W	2kVA/1400W	3kVA/2100W
<b>INPUT</b>				
Phase	Single Phase			
Nominal Voltage	110Vac / 220Vac			
Voltage Range	160-300Vac(70%-100%load),140-300Vac (50%-70% load),110-300Vac (0%-50% load)			
Frequency	50Hz / 60Hz ± 4Hz			
Power Factor	≥0.95			≥0.97
<b>OUTPUT</b>				
Voltage	220VAC ± 2% (230V or 240V re-settable via LCD panel) 110VAC ± 2% (110V, 115V or 120V re-settable via LCD panel)			
Frequency	Synchronized ( Line mode) : 50Hz or 60Hz +/-0.5% (Battery mode)			
Wave Form	True sine wave			
Distortion	Tower	≤3%(Linear load) ≤6%(Non-linear load)		≤4% (Linear load) ≤7%(Non-linear load)
	Rack	≤4% (Linear load) ,≤7% (Non-linear load)		
Overload Capacity	112%~150% : 30sec. ; >150%: 200msec.			
Crest Ratio	3 : 1			
<b>BATTERY</b>				
DC Voltage	36V		96V	
Capacity	12V / 7Ah×3 pcs		12V / 7Ah×8pcs	
Back-up Time	>5min	>9min		>5min
<b>CHARGER</b>				
Built-In/Option	1 Amp(standard) ; 8 Amp(long backup)		1 Amp(standard) ; 9 Amp(long backup)	
Recharging Time	5 hrs to 90%			
<b>BYPASS</b>				
Automatic	Overload or UPS fault			
By Setting	Voltage range: 176~256V±20V (Re-settable via LCD panel)			
Transfer Time	0 ms( 2.5ms inverter to bypass)			
<b>INDICATOR</b>				
LCD (Series)	UPS status, IP&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)			
<b>OUTLET</b>				
Tower	NEMA×3pcs or IEC320×4pcs	NEMA×3pcs+TB*1 or NEMA×6pcs or IEC320×6pcs		NEMA×3pcs+TB*1 or NEMA×6pcs or IEC320×3+ TBx1
Rack	NEMA×4pcs or IEC320×4pcs	NEMA×2+TBx1 or IEC320×4pcs		NEMA×2+TBx1 or IEC320×1+TBx1
<b>AUDIBLE ALARM</b>				
Battery Mode	Beeping every 4 seconds (re-settable)			
Battery Low	Beeping every second			
Overload	Beeping twice per second			
Fault	Beeping continuously			
<b>INTERFACE</b>				
RS-232 Interface	UPSilon2000 monitoring software for Windows all, Unix systems and Novell			
Multi-Interface Slot	SNMP card, AS400, dry contact, USB selectable			
<b>Network</b>				
Surge Protection	RJ45 I/O port for Network or RJ 11 for Fax / Modem			
Parallel	N/A			
<b>ENVIRONMENT</b>				
Temperature	0 - 40 °C (32 - 104 °F)			
Humidity	0-95% (non-condensing)			
Audible Noise(At 1M )	< 45 dBA			< 50 dBA
<b>PHYSICAL</b>				
Weight(Kg, without battery)		6.5 (Tower)	13.5 (Tower)	14.5 (Tower)
		8.0 (Rack)	9.5 (Rack)	10.5 (Rack)
Weight(Kg, with battery)		15 (Tower)	34 (Tower)	35 (Tower)
		15.5 (Rack)	N/A (Rack)	N/A (Rack)
Dimensions (W*H*D)mm	Tower	160*220*400		200*352*450
	Rack	440*88*465		

- \* 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 specification mentioned above are subject to change without prior notice



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## 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, AS400, USB and DB-9
- DC start and automatic self-diagnostic function
- Low heat dissipation in long time operation
- High efficiency design to save electricity
- Enhanced protections against lightning surges, disturbances etc.
- Designed to operate under harsh environment