



**Soltec**

The professional power people

## AHA-N Series

**On-Line UPS 700VA-1kVA  
with HID communication port**



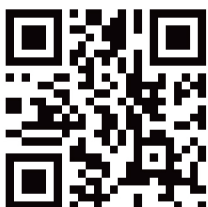
### Features

- Advanced microprocessor design base
- True sine wave output
- Input power factor correction 0.99
- Perfect failure protection
- Generator compatible
- Wide input range, high efficiency
- 50Hz/60Hz auto-detect
- USB HID communication built-in

# AHA-N Series Specification

MODEL		AHA-N700	AHA-N700L	AHA-N1K	AHA-N1KL
Capacity	VA / Watt	700VA/420W	700VA/320W	1000VA/900W	1000VA/800W
<b>INPUT</b>					
Voltage Range	Acceptable Voltage Range	55Vac-150Vac or 110Vac-300Vac			
	Low Line Transfer	85Vac / 55Vac or 170Vac / 110Vac ( Based on load percentage 100% - 60% / 60% - 0%)			
	Line Low Return	90Vac / 110Vac or 180Vac / 120Vac $\pm$ 5 %			
	Line High Transfer	150Vac or 300Vac $\pm$ 5 %			
	Line High Return	145Vac or 290Vac $\pm$ 5 %			
Frequency Range		50Hz / 60Hz Auto sensing ( 47Hz - 53Hz / 57Hz - 63Hz)			
Phase		Single phase with ground			
Power Factor (I/P:220V Battery full charged, output @ full load)		> 0.99 @ Nominal voltage (100 % load)			
<b>OUTPUT</b>					
Waveform		Pure sine wave			
Voltage		110Vac/115Vac/120Vac or 220Vac/230Vac/240Vac			
Voltage Regulation	Line Mode	$\pm$ 1 %			
	Battery Mode	$\pm$ 1 %			
Frequency Regulation	Line Mode	Synchronize to AC main			
	Battery Mode	50Hz / 60Hz $\pm$ 0.1 Hz			
Current Crest Ratio		4 : 1			
Harmonic Distortion		$\leq$ 4% (Linear load), $\leq$ 6% (Non-linear load)			
Transfer Time	AC Mode to Batt. Mode	Zero			
	Inverter Mode to Bypass	4 ms (Typical)			
Efficiency	AC Mode (Battery full charged)	> 89.5 %			
	Battery Mode	> 86.5%		> 88.5%	
Overload Protection	Line Mode	110% - 120% : 10s , > 120% : 200ms (and go to bypass. If the overload condition is remover, the unit will return back to inverter automatically)			
	Battery Mode	110% - 120%: 10s , > 120% : 200ms then UPS shutdown			
<b>DC START</b>					
Cold Start		Yes			
<b>BATTERY</b>					
Voltage		12Vdc		24Vdc	
Type		12V / 7Ah	Depending on the capacity of external batteries	12V / 7Ah	Depending on the capacity of external batteries
Quantity		1		2	
Recharging Current(max.)		1.0A	4A or 9A	1.0A	4A or 8A
Charging Voltage		13.6Vdc $\pm$ 1%		27.3Vdc $\pm$ 1%	
<b>DISPLAY</b>					
LCD (Option)		N / A		UPS status, I/P&O/P Voltage/Frequency, Load level, Battery voltage	
LED		Green: Normal (Continuously), Warning (Flash)		Normal (Green), Warning (Amber), Fault (Red)	
<b>AUDIBLE ALARM</b>					
Battery Mode		Beeping every 4 seconds			
Low Battery		Beeping every second			
UPS Fault		Beeping continuously			
Overload		Beeping twice per second			
<b>COMMUNICATION PORT</b>					
Standard Configuration		HID (Human Interface Device)			
<b>ENVIRONMENT</b>					
Operation Temperature		0 - 40 °C (32 - 104 °F)			
Relative Humidity		0-95% (non-condensing)			
Audible Noise(At 1M)		< 55dBA			
<b>PHYSICAL</b>					
Dimensions(W*H*D)mm		115 *163 * 271		145 * 300 * 325	
Net Weight(Kg)		5	2.9	8.8	4.3

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



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