



Soltec

The professional power people

AHA-N1KR Series

**On-Line UPS 1kVA (1U)
with lithium-ion battery**



Features

- Advanced microprocessor design base
- True double-conversion isolated topology
- True sine wave output
- Input power factor correction 0.99
- Output power factor 0.8
- Perfect failure protection
- Built-in Lithium-ion or Lead-Acid battery
- Particular compact size, ultra slim (1U)
- Generator compatible
- Wide input range, high efficiency
- 50Hz/60Hz auto-detect
- USB HID communication built-in

AHA-N1KR Specification

MODEL		AHA - N1KR
Capacity	VA / Watt	1000VA/800W
Mode Type		Rack
INPUT		
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)
OUTPUT		
Waveform		Pure sine wave
Voltage		110Vac/115Vac/120Vac or 208Vac/220Vac/230Vac/240Vac
Voltage Regulation	Line Mode	\pm 1%
	Battery Mode	\pm 1%
Frequency Regulation	Line Mode	Synchronize to AC main
	Battery Mode	50 Hz / 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)	> 85%
	Battery Mode	> 87%
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
DC START		
Cold Start		Yes
BATTERY		
Voltage		36 Vdc
Type		Lithium-ion battery (TBA)
DISPLAY		
LCD (Option)		UPS status, I/P&O/P voltage/frequency, load level, battery voltage
LED		Normal (Green), Warning (Amber), Fault (Red)
AUDIBLE ALARM		
Battery Mode		Beeping every 4 seconds
Low Battery		Beeping every second
UPS Fault		Beeping continuously
Overload		Beeping twice per second
COMMUNICATION PORT		
Standard Configuration		HID
		Option : RS232,SNMP
		USB,Dry contact,AS400
ENVIRONMENT		
Operation Temperature		0 - 40 °C (32 - 104 °F)
Relative Humidity		0-95% (non-condensing)
Audible Noise(At 1M)		< 55dBA
PHYSICAL		
Dimensions(H*W*D)mm		440*44*380
Net Weight(Kg)		8

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



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SOLTEC POWER CO., LTD

No.37,Yunke Road,Sec.3,Douliu City,Yunlin,Taiwan

Tel:+886-5-551-1017 Fax:+886-5-551-0027

http://www.soltec.com.tw E-mail: soltec@soltec.com.tw

sales@soltec.com.tw