

# 19" RACK MOUNT OUTDOOR UPS MODULE



CNHR112 1-3KVA

## Feature

- ◆ **Zero Transfer Time**  
True Double Conversion Online UPS, Provide most comprehensive protect mission critical equipment from wide range power quality issues.
- ◆ **DSP Digital Control Based**  
Advance DSP base digital control bring high performance of high input Power factor, low distortion, supply the load with perfect sine wave AC power supply.
- ◆ **Ultra Wide Input Mains Range**  
Strong compatible with ultra with electric environment, stay well with ultra wide range mains of 90V~300V, 40~70Hz ,dramatically reduce battery discharge , prolong battery life.
- ◆ **Best Loading Capability**  
Up to 0.9 (1.0 optional) Output Power Factor, 50/60 Hz Automatically adapting, selectable voltage, perfectly match all kind of application.
- ◆ **Genset Compatible**  
Capable of work with wide range of Genset, isolate fluctuation and noise from Genset, provide stable and clean power supply to the user equipment.
- ◆ **High Input Power Factor**  
Thanks to digital controlled PFC Technology,>0.99 input power factor, effectively avoid power pollution, save energy expense for customer.
- ◆ **Reliable Design**  
Made with strong Glass fiber base (FR4) double side PCB, company with large span component, greatly improve reliability in harsh environment, Well designed ventilation and conformal coating, avoid dust accumulation, improve resistant to corrosion.
- ◆ **Open to Customization**  
Based on powerful controller and open architecture, the product is able to be customized to match need of integration of automatic system or intelligent supervisory system.
- ◆ **Front Maintenance Terminals, Input/Output and Battery Terminals Can be Plugged and Unplugged Online.**
- ◆ **Can be used Outdoors and Bulit Into Outdoor Cabinets.**

## Product Parameter

Model		CNHR112-1KR	CNHR112-1KRS	CNHR112-2KR	CNHR112-2KRS	CNHR112-3KR	CNHR112-3KRS
Capacity	VA/W	1kVA/900W (Optional 1KW)		2kVA/1.8kW (Optional 2KW)		3kVA/2.7kW (Optional 3KW)	
Topology		Double Conversion Online UPS					
Phase		Single Phase Input Single Phase Output					
Mains Input	Wiring	L/N+PE					
	Rated Voltage	208/220/230/240VAC					
	Voltage Range	90~300VAC					
	Frequency Range	40Hz- 70Hz					
	Input Power Factor	≥0.99					
AC Output	Wiring	L/N+PE					
	Output Voltage	208/220/230/240VAC					
	Voltage Regulation	±1%					
	Output Frequency	50/60±4Hz(Sync Mode) / 50/60Hz±0.1%(Free Run)					
	Waveform	Pure Sine Wave					
	Distortion	<2% (Linear Load)					
	(THDV%)	<7% (None-Linear Load)					
	Over Load Capability	1Min@105%~125% Rated Load	30Sec.@125%~150% Rated Load	0.5Sec.@>150% Rated Load			
Efficiency	AC/AC Mode	0.88		0.89		0.9	
	DC/AC Mode	0.86		0.87		0.88	
Battery&Charge	Rated Battery Voltage	48VDC (Optional lithium battery) External					
	Battery Capacity	12V/7AHx4pcs (External battery depends)					
	Backup Time	>6mins @ Half load					
	Charging Current	Standard model with internal battery: 1A ; Long backup time model: 4A					
Physical	Chassis Style	Rack-Mounted					
	Rack Dimension	1KR/1KRS/2KR/2KRS/3KRS: 438mm(W) x 88mm(2U)(H) x 360mm(D) 3KR: 438mm(W) x 88mm(2U)(H) x 500mm(D) Include internal battery					
	Weight (kg)	13	8.5	18.5	11.5	21.9	12
HMI	LCD Display	Input Mains Voltage, Frequency, Load Level, Operation Mode, Health Status					
	Standards Communication Interface	1. RS232 Port					
	Optional Extension Card	2. NMC Card: Support remote monitor the UPS via smart phone APP, Web page, PC Monitor Software, Support Server / NAS Shutdown 3.MODBUS Card 4.USB Card 5.Relay Card (Needs assembly according to order request before shipping)					
Operating Environment Endurance	Temperature Range	-10~50℃					
	Relative Humidity	0-98% (Non-condensing)					
	Acoustics Noise	<55dB @ 1 meters					