

**19" RACK MOUNT
OUTDOOR UPS MODULE**
CNH110R 1-10KVA

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CNH110R 1-10KVA (1Ph/1Ph)

CONSNANT



Compitable with lithium battery 6-10KVA



Compitable with lithium battery 1-3KVA



Compitable with lead-acid battery 1-3KVA



True Online Double-Conversion Technology



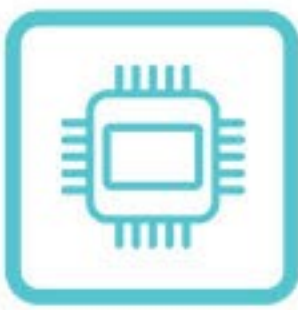
Wide Input Voltage Range



Intelligent Battery Management System



Lightning and Surge Protection



DSP Technology



Support Generator Connection



Front Maintenance Terminals



Lighting and Surge Protection

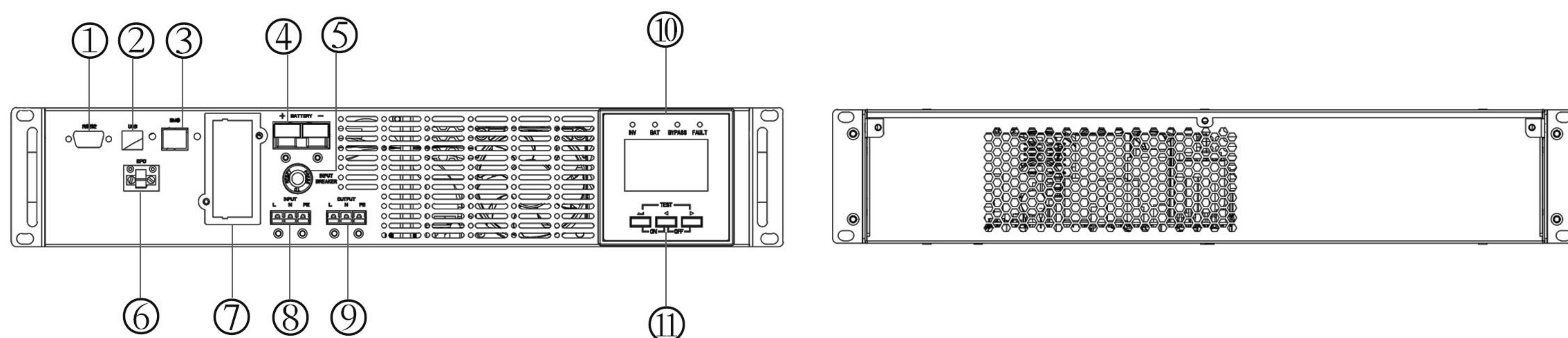
■ APPLICATION

IDC(Internet Data Center), Telecom, Network, Servers and Workstations, Control System, Communication System etc.



■ REAR PANEL

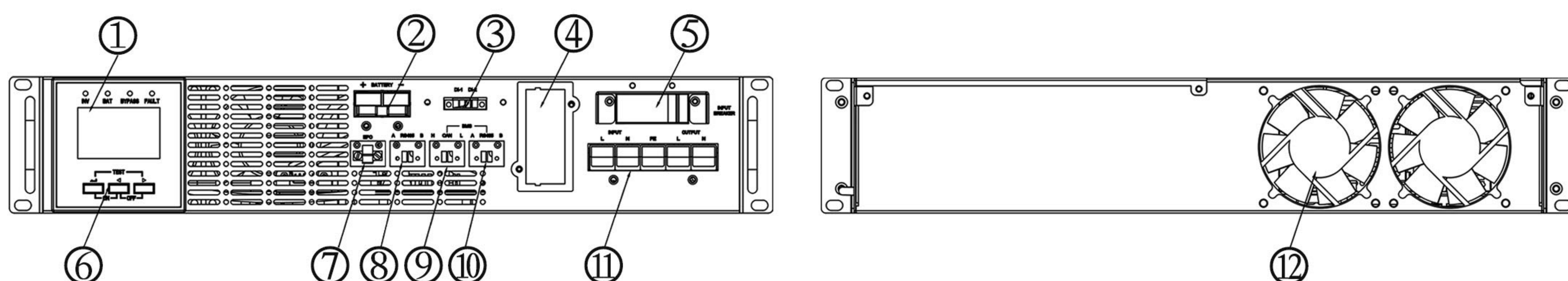
CNH110R 1-3K



- ① RS232 communication interface
- ② USB communication interface
- ③ RS485 battery communication interface
- ④ External battery connection port
- ⑤ Input overcurrent protector
- ⑥ EPO

- ⑦ Intelligent slot
- ⑧ AC input terminal block
- ⑨ AC output terminal block
- ⑩ LCD
- ⑪ Operation buttons

CNH110R 6-10K



- ① LCD
- ② External battery connection port
- ③ Battery dry contact interface
- ④ Intelligent slot
- ⑤ Input overcurrent protection circuit breaker
- ⑥ Operation buttons

- ⑦ EPO
- ⑧ RS485 serial communication interface
- ⑨ CAN battery communication interface
- ⑩ RS485 battery communication interface
- ⑪ AC input and output terminal block
- ⑫ Fan



■ TECHNICAL PARAMETERS

CNH110R 1-3KVA

Model	CNH110R 1K	CNH110R 2K	CNH110R 3K
Capacity	1KVA/0.8KW (Optional 0.9KW)	2KVA/1.6KW (Optional 1.8KW)	3KVA/2.4KW (Optional 2.7KW)
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	208/220/23/240VAC		
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%	<5% (Non-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

Battery Type	Sealed lead acid / lithium		
Rated Battery Voltage	48VDC/36VDC	48VDC/72VDC	48VDC/96VDC
Charging Current	1-12A Settable		

Physical

Chassis Style	Rack-Mounted		
Rack Dimension	443mm(W) x 295mm(D) x 86mm(H)	443mm(W) x 370mm(D) x 86mm(H)	
Weight (kg)	6.5	7	7.5

Communication

Interface	RS232 / USB / SNMP card (optional) / Dry contact card (optional)
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Operating Envirment Endurance

Temperature Range	0~40℃
Relative Humidity	0-98% (Non-condensing)
Acoustics Noise	<55dB@ 1 meter

*All specifications are subject to change without prior notice.



■ TECHNICAL PARAMETERS

CNH110R 6-10KVA		
Model	CNH110R 6K	CNH110R 10K
Capacity	6KVA/4.8KW (Optional 5.4KW)	10KVA/8KW (Optional 9KW)
Input		
Rated Voltage	208/220/230/240Vac, L/N+PE	
Voltage Range	110~300Vac	
Frequency Range	40-70Hz	
Power Factor	≥0.99	
THDI	≤5% (linear load); ≤8% (non-linear load)	
Output		
Rated Voltage	208/220/230/240Vac, L/N+PE	
Voltage Regulation	±1%	
Frequency	50/60Hz±0.1%	
THDI	≤2% (linear load); ≤5% (non-linear load)	
Transfer Time	Zero	
Waveform	Pure sine wave	
Crest Factor	3:1	
Overload Capacity (Line Mode)	102%~105% load, 30min; 105%~125% load, 10min; 125%~150% load, 30s; > 150% load, 500ms	
Overload Capacity (Battery Mode)	102%~105% load, 10min; 105%~125% load, 1min; 125%~150% load, 10s; > 150% load, 500ms	
Battery		
Battery Type	Sealed lead acid / lithium	
Nominal Voltage	192Vdc/240Vdc	
Charging Current	1-12A settable	
Efficiency		
Line Mode	95%	
Battery Mode	94.5%	
ECO Mode	98%	
Communication		
Interface	RS485 / USB / SNMP card (optional) / Dry contact card (optional)	
Environment		
Operation Temperature	0~40℃	
Humidity	0~95% (non-condensing)	
Noise	≤50dB@ 1 meter away	
Altitude	Up to 1000m without derating	
Physical		
Dimensions (mm)	443mm(W) x 562mm(D) x 86mm(H)	
Weight (kg)	11	12

*All specifications are subject to change without prior notice.

