HIGH FREQUENCY ONLINE UPS



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CONTENIS

SINGLE PHASE ONLINE UPS TOWER SERIES CNH110 Series Tower Online UPS 1-3kVA CNH110 Series Tower Online UPS 6-10kVA CNH310 Series Tower Online UPS 10-20kVA SINGLE PHASE ONLINE UPS RACK SERIES CNH110R Series Rack Online UPS 1-3kVA CNH110R Series Rack Online UPS 6-10kVA CNH310R Series Rack Online UPS 10-20KVA CNBR Battery Cabinet THREE PHASE ONLINE UPS TOWER SERIES CNH330 Series Tower Online UPS 10-160kVA THREE PHASE ONLINE UPS RACK SERIES CNH330R Series Rack Online UPS 10-40kVA MODULAR ONLINE UPS SERIES CNM330 Series Modular Online UPS 200-600kVA CNM331 Series Modular Online UPS 100-600kVA

CNH110 SERIES Tower Online UPS 1-3kVA

1/2/3kVA

1 Phase Input/1 Phase Output



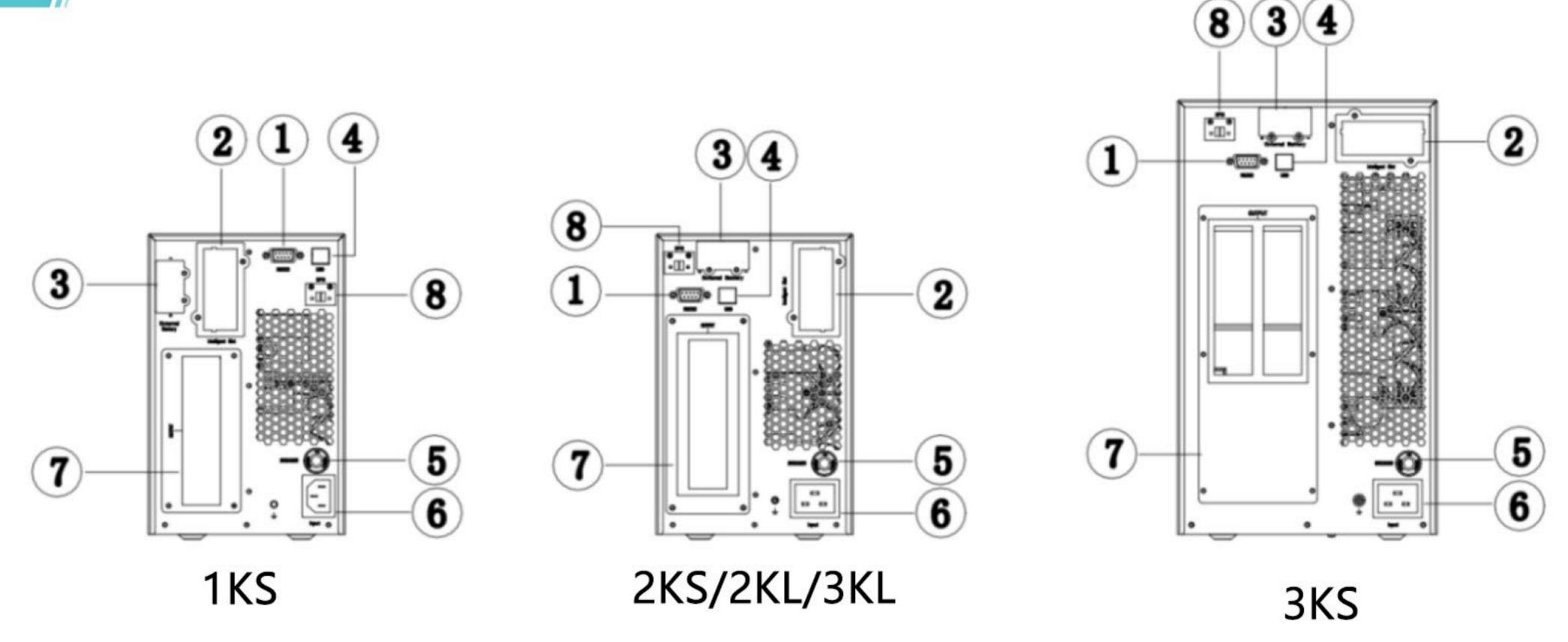
Features

- True online double-conversion technology
- Wide input voltage range
- DSP technology
- Advanced PFC technology,input PF>99%
- Strong charging capacity
- Lighting and surge protection
- LCD/LED display
- Smart RS232 and USB Ports with monitoring software

Application

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

Rear Panel



- ① RS232
- 2 Smart slot
- ③ External battery connection port
- 4 USB

- 5 Input over current protection breaker
- 6 AC input
- 7 Output socket

® EPO

Model	CNH110 1KS	CNH1101KL	CNH110 2KS	CNH110 2KL	CNH110 3KS	CNH110 3KL		
Capacity	1kVA/1kW 2kVA/2kW 3kVA/3kW							
Input								
Rated Voltage		208/ 220/230/240Vac, L+N+PE						
Voltage Range			110~3	00Vac				
Frequency Range			40-7	0Hz				
Power Factor			≥0.	.99				
THDi		≤4%	(linear load); ≤	5% (non-linear	load)			
Output	•							
Rated Voltage			208/220/230/24	10Vac,L+N+PE	•			
Voltage Regulation			±1	%				
Frequency			50/60Hz	± 0.1%				
THDu		≤2%	(linear load); ≤	5% (non-linear	load)			
Transfer Time			Ze	ro				
Waveform			Pure sir	ne wave				
Crest Factor			3:	:1				
Overload Canacity		102%~110	% load, 30min;	110%~130% 16	ad 10min			
Overload Capacity								
(Line Mode)		130%~	150% load, 30s	s, /150% loau,	2001115			
Overload Capacity		102%~11	10% load, 1min	·110%~130% I	oad 10s.			
(Battery Mode)			~150% load, 3s		1. T.			
(Dattery Wiode)		10070	100 /0 load, 03	5,7 100 /0 10au, 2	2001113			
Efficiency								
Line Mode	94.	5%	95.	5%	95.	5%		
Battery Mode	88.	5%	91.	5%	91.	5%		
ECO Mode			98	%				
Battery								
Nominal Voltage	24Vdc /36Vdc	36Vdc	48Vdc /72Vdc	72Vdc	72Vdc / 96Vdc	96Vdc		
Battery Number	7Ah*2 / *3	External	7Ah*4 / *6	External	7Ah*6/*8	External		
Charge Current	1A	1-12A settable	1-12A	1-12A settable	1A	1-12A settable		
Communication								
Interface	RS	S232 / USB / S	NMP card(option	onal) /Drv conta	act card(option	al)		
Environment								
Operation								
Temperature	0~40℃							
Humidity	0~95%(non-condensing)							
Noise	≤50dB@1meter away							
Altitude	Up to 1000m without derating							
Physical	op to 1000m without derating							
Dimensions								
(W*D*H)mm	145*354*224	145*354*224	190*418*322	145*405*224	190*418*322	145*405*224		
Weight (kg)	9 /11	4.5	16.3 /20.2	6	23.5 /27	6.3		
All specifications are subject			10.0720.2		20.0721	0.0		

CNH110 SERIES TOWER ONLINE UPS 6-10kVA

6/10kVA

1 Phase Input/1 Phase Output



6/10KS

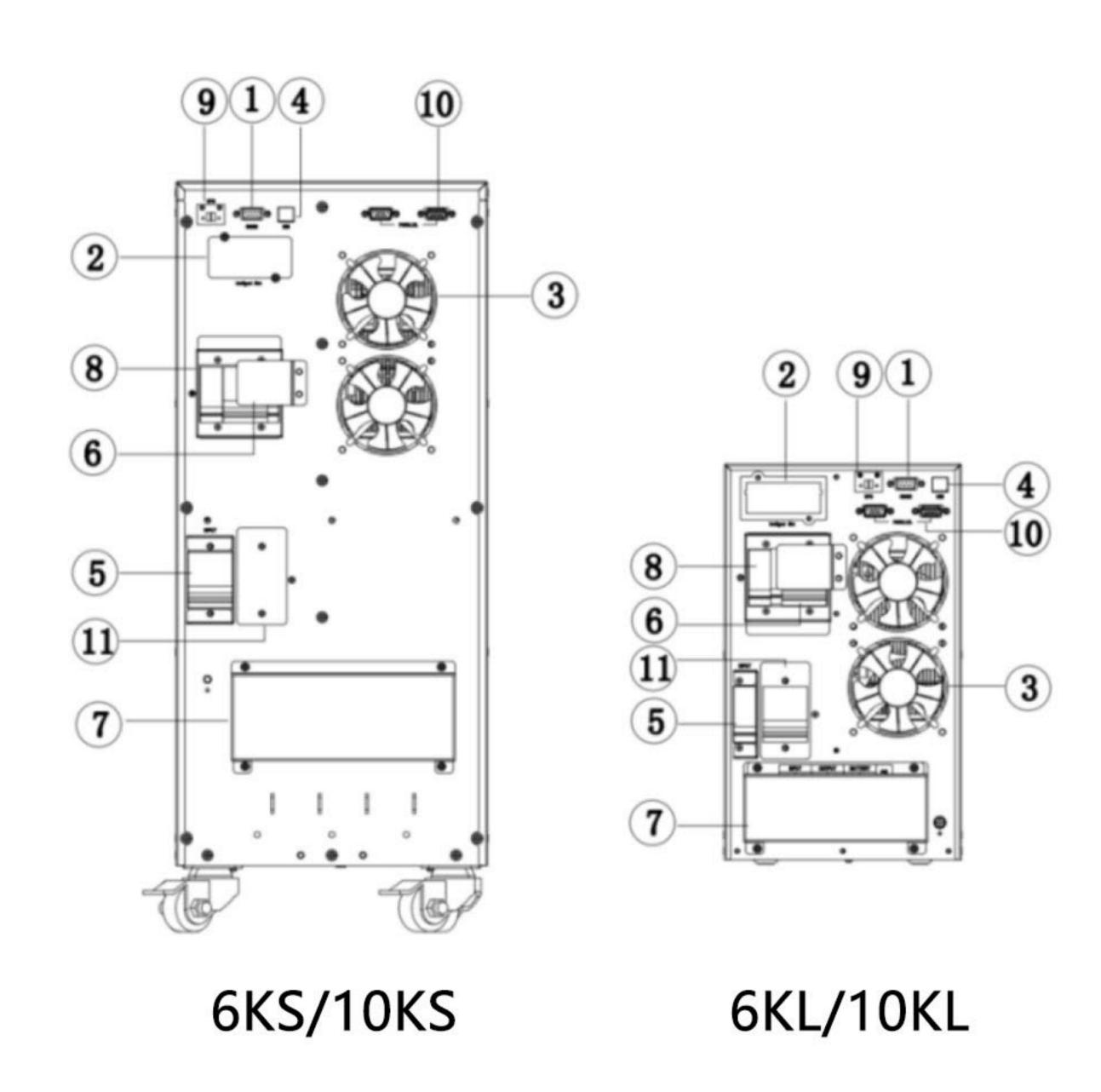
Features

- True online double-conversion technology
- Wide input voltage range
- DSP based technology
- Advanced PFC technology,input PF>99%
- Strong charging capacity
- Lighting and surge protection
- LCD/LED display
- Compatible with the generator

Application

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

Rear Panel



- ① RS232
- ② Smart slot
- ③ Fan
- 4 USB
- (5) Input breaker
- 6 Maintenance bypass breaker (optional)
- 7 Terminal block
- Output breaker (optional)
- 9 EPO

- 10 Parallel kit (optional)
- 11) Battery breaker (optional)

Model	CNH110 6KS	CNH110 6KL	CNH110 10KS	CNH110 10KL			
Capacity	6kVA/6kW 10kVA/10kW						
Input							
Rated Voltage		208/ 220/230/24	10Vac, L+N+PE				
Voltage Range		110~3	00Vac				
Frequency Range		40-7	0Hz				
Power Factor		≥0.	.99				
THDi		≤5%(linear load); ≤8	3%(non-linear load)				
Output							
Rated Voltage		208/220/230/24	OVac, L+N+PE				
Voltage Regulation		±1	%				
Frequency		50/60H	z±0.1%				
THDu		≤2% (linear load); ≤5	5% (non-linear Load)				
Transfer Time		Ze	ro				
Waveform		Pure sir	ne wave				
Crest Ratio		3:	:1				
Overload Capacity	1029	%~105% load, 30min;	105%~125% load. 1	Omin:			
(Line Mode)		125%~150% load, 30s					
Overload Capacity (Battery Mode)		%~105% load, 10min; 125%~150% load,10s					
Battery							
Battery Type		Sealed lead acid	maintenance free				
Nominal Voltage		192Vdc /	/ 240Vdc				
Battery Number	7Ah*16/20pcs	External	9Ah*16/20pcs	External			
Charge Current	1A	1-12A settable	1A	1-12A settable			
Efficiency							
Line Mode		95	5%				
Battery Mode		94.	5%				
ECO Mode		98	3%				
Communication							
Interface	RS232 / U	SB/ SNMP card(optio	nal) /Dry contact car	d (optional)			
Environment							
Operation Temperature	0~40℃						
Humidity	0~95%(non-condensing)						
Noise	≤50dB@1meter away						
Altitude	Up to 1000m without derating						
Physical							
Dimensions (W*D*H) mm	250*523*602	190*437*322	250*523*602	190*437*322			
Weight (kg)	57/67	10	61.3/71.5	11			

All specification are subject to change without prior notice.

CNH310 SERIES TOWER ONLINE UPS 10-20kVA

10/15/20kVA

1Phases or 3Phase Input/1Phase Output





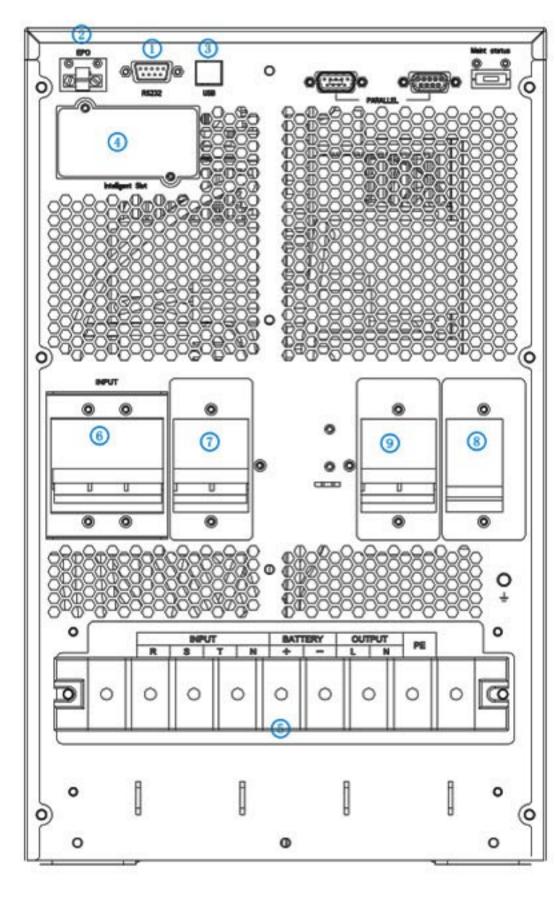
Features

- True online double-conversion technology
- Wide input voltage range
- DSP based technology
- Advanced PFC technology,input PF>99%
- Lighting and surge protection
- LCD/LED display
- Support generator connection
- Support 3/1 and 1/1 configuration

Application

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

Rear Panel



10/15/20KL

- ① RS232 port
- ② EPO /ROO (Remote On Off) port
- 3 USB port
- 4 Intelligent slot for SNMP/MODBUS/dry contact card etc.
- (5) Input and output terminal block
- ⑥ AC input switch
- ⑦ Battery switch
- Maintenance bypass switch

Model	CNIL1210 10VC	CNILI210 10KI	CNH310 15KS	CNH310 15KL	CNH310 20KS	CNH310 20KL	
Model	CNH310 10KS	CNH310 10KL	CNH110 15KS	CNH110 15KL	CNH110 20KS	CNH110 20KL	
Capacity	10kVA	/10kW	15kVA	/15kW	20kVA	/20kW	
Input							
Rated Voltage	208/2	20/230/240Vac,	L+N+PE or 380	0/400/415Vac, 3	Ph+N+PE		
Voltage Range	156~5	520Vac					
Frequency Range	40~70)Hz					
Power Factor	≥0.99						
Output	ρ ₁						
Rated Voltage	208/2	20/230/240Vac,	L+N+PE				
Voltage Regulation	±1%						
Frequency	50/60	Hz±0.1%					
THDu	≤2%	(linear load); ≤7	7% (non-linear l	oad)			
Trequency Time	Zero						
Waveform	Pure s	ine wave					
Crest Ratio	3:1						
Overload Capacity (Line Mode)	126%	105%~125% load, 10min; 126%~150% load, 1min; >150 load, 100ms					
Overload Capacity (Battery Mode)	THE RESIDENCE LONGEROUSE	~125% load, 1s; % load, 100ms					
Battery							
Battery Type	Sealed	d lead acid main	tenance free				
Norminal Voltage	192Vd	lc / 240Vdc					
Battery Number	9Ah*16pcs	External	7Ah*16/20*2	External	9Ah*16/20*2	External	
Charging Current	2A	1-12A	2A	1-12A	2A	1-12A	
Efficiency							
Line Mode	94%						
Battery Mode	92%						
ECO Mode	98%						
Communication							
Interface	RS232	/ USB / SNMP	card (optional)	/ Dry contact ca	rd (optional)		
Environment							
Operation Temperature	0~40°	0~40°C					
Humidity	0~959	% (non-conden	sing)				
Noise	≤55dE	≤55dB @ 1 meter away					
Altitude	Up to	Up to 1000m without derating					
Physical							
Dimensions (W*D*H) mm	190*534*456	250*612*409	300*698*700	250*612*409	300*698*700	250*612*409	
Weight (kg)	65.6	25.6	89.6	25.6	90.1	26.1	

All specification are subject to change without prior notice.

CNH110R SERIES RACK ONLINE UPS 1-3kVA

1/2/3kVA

1 Phase Input/1 Phase Output



Features

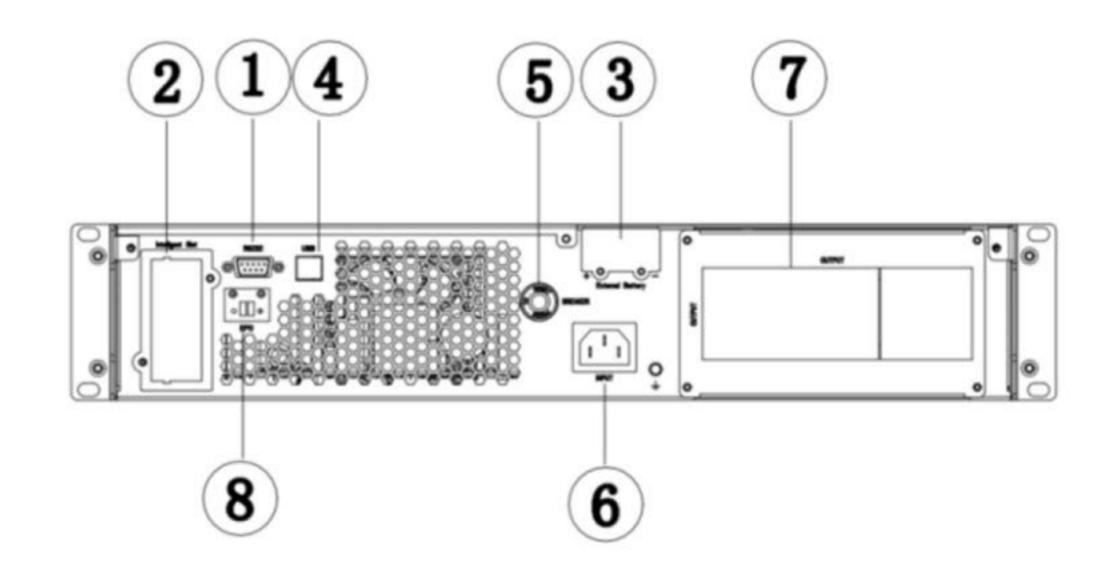
- True online double-conversion technology
- Wide input voltage range
- DSP technology
- Advanced PFC technology,input PF>99%
- Strong charging capacity
- Lighting and surge protection
- Smart RS232 and USB Ports with monitoring software



Application

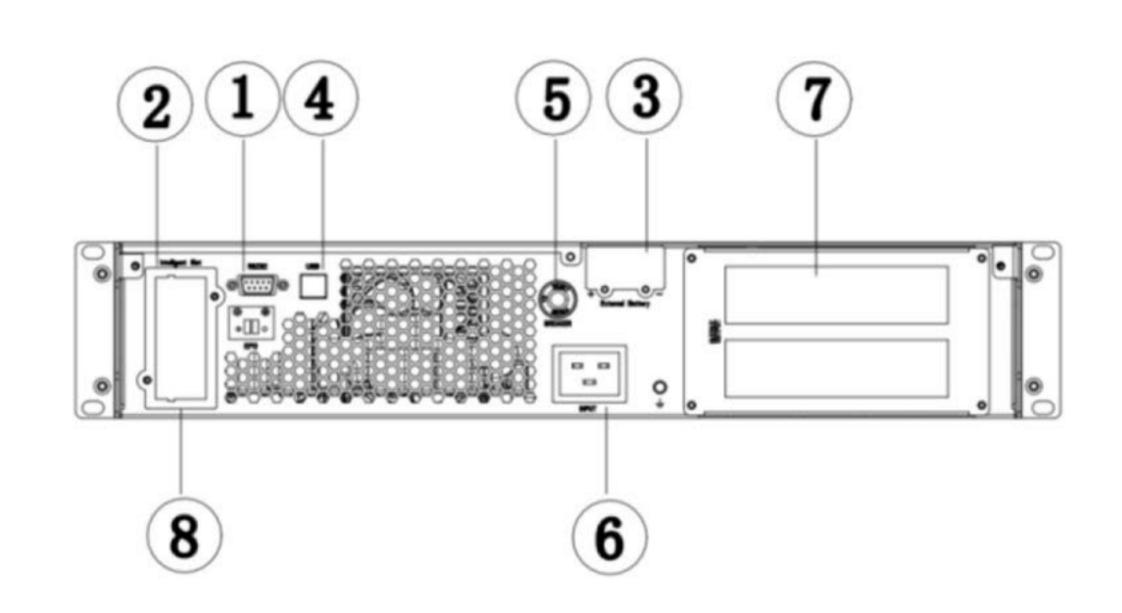
IDC (Internet Data Center), Network, Servers and Workstations, Control System, Communication System, Office, PC etc.

Rear Panel



1KS/1KL

- ① RS232
- 2 Smart slot
- 3 External battery connection port
- 4 USB



2KS/2KL/3KS/3KL

- (5) Input over current protection breaker
- ⑥ AC input
- 7 Output socket

® EPO

Model	CNH110R 1KS	CNH110R 1KL	CNH110R 2KS	CNH110R 2KL	CNH110R 3KS	CNH110R 3KL	
Capacity	1kVA/1kW 2kVA/2kW 3kV/				/3kW		
Input							
Rated Voltage			208/ 220/230/2	40Vac, L+N+PE			
Voltage Range			110~3	300Vac			
Frequency Range			40-	70Hz			
Power Factor			≥().99			
THDi		≤4%	(linear load); ≤	≤5% (non-linear	load)		
Output							
Rated Voltage			208/220/230/2	40Vac ,L+N+PE			
Voltage Regulation			±	1%			
Frequency			50/60H	z ± 0.1%			
THDu		≤2%	% (linear load);	≤5% (non-linear	load)		
Transfer Time			Z	ero			
Waveform			Pure si	ne wave			
Crest Factor			3	3:1			
Overload Capacity		102%~11	0% load, 30min	;110%~130% lc	ad, 10min;		
(Line Mode)				s; >150% load,			
Overload Capacity		102%~1	10% load, 1mir	n;110%~130% I	oad, 10s;		
(Battery Mode)		130%	~150% load, 3	s; >150% load,	200ms		
Efficiency							
Line Mode	94.	5%	95.	5%	95.	5%	
Battery Mode	88.	5%	91.	5%	91.	5%	
ECO Mode			9	8%			
Battery							
Nominal Voltage	24Vdc/	36Vdc	48Vdc/	72Vdc	72Vdc/	96Vdc	
Battery Number	7Ah*2/*3pcs	External	7Ah*4/6pcs	External	7Ah*6/8pcs	External	
Charge Current	1A	1-12A	1A	1-12A	1A	1-12A	
Communication							
Interface	F	RS232 / USB/ S	SNMP card(opti	onal) /Dry conta	ct card(optiona	ıl)	
Environment							
Operation		0.40%					
Temperature	0~40℃						
Humidity	0~95%(non-condensing)						
Noise	≤50dB@1meter away						
Altitude	Up to 1000m without derating						
Physical							
Dimensions	440*379*86	440*379*86	440*568*86	440*450*86	440*719*86	440*450*86	
(W*D*H)mm	440 379 00	440 3/9 00	440 300 00	440 450 60	440 / 19 00	440 450 66	
Weight (kg)	11.1 /13	6	18.7 /22.5	8	24.4 /27.8	10.8	

All specifications are subject to change without prior notice.

CNH110R SERIES RACK ONLINE UPS 6-10kVA

6/10kVA

1 Phase Input/1 Phase Output



Features

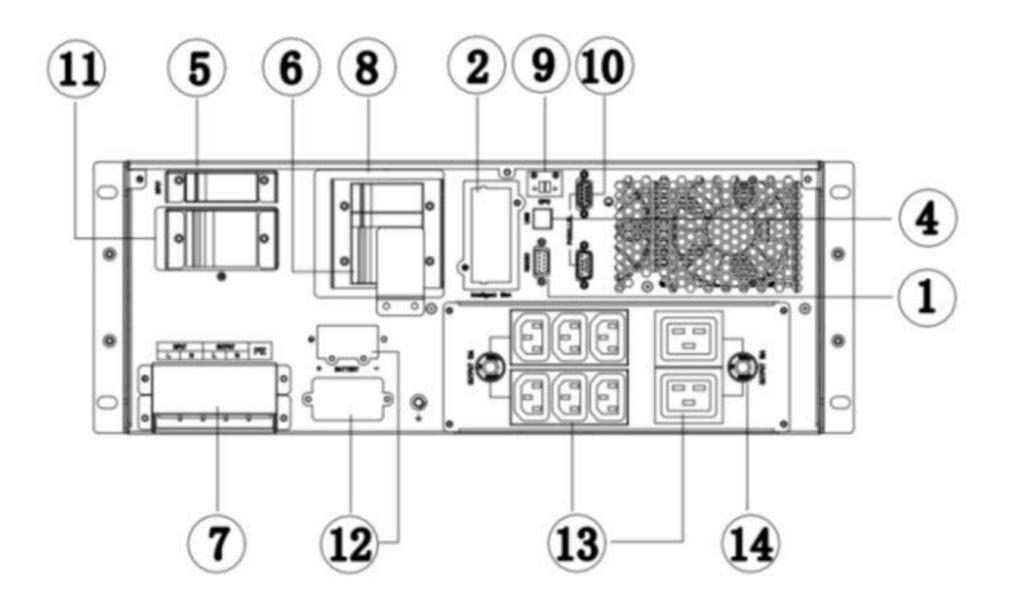
- True online double-conversion technology
- Wide input voltage range and stable power supply extends battery lifetime
- DSP based technology
- Advanced PFC technology,input PF>99%
- Lighting and surge protection
- LCD/LED display
- Support generator connection

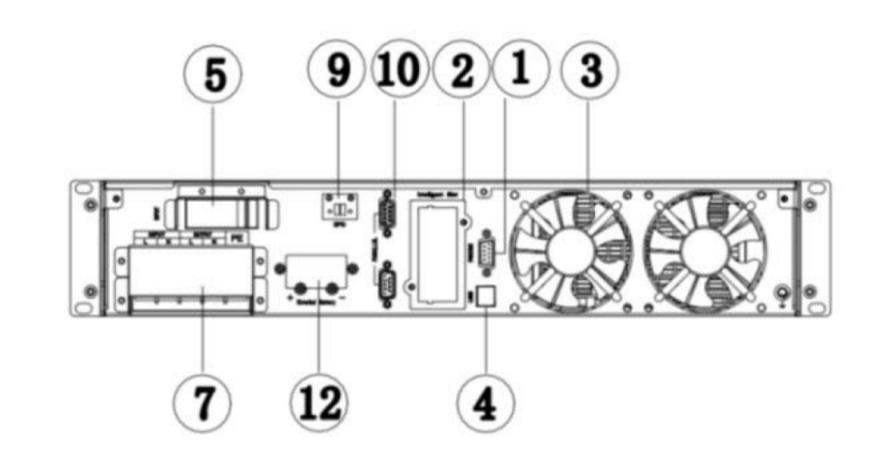


Application

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

Rear Panel





6KS/10KS

- 1 RS232
- 2 Smart slot
- 3 Fan
- 4 USB
- 5 Input breaker
- 6 Maintenance bypasss breaker
- 7 Terminal block

- 9 EPO
- 10 Parallel port
- 11 Battery breaker
- 12 External battery connection port
- 13 Output socket
- 14 Output over current protection breaker

Input Rated Voltage 208/ 220/230/240Vac, L+N+PE Voltage Range 110~300Vac L+N+PE Voltage Range 110~300Vac L+N+PE Voltage Range 40-70Hz 20.99 THDi ≤5%(linear load); ≤8%(non-linear load) Voltage Ragulation ±1% Solicity Solicity	Model	CNH110R 6KS	CNH110R 6KL	CNH110R 10KS	CNH110R 10KL			
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% THDu ≤2% (linear load); ≤5% (non-linear Load) Transfer Time Zero Waveform Pure sine wave Crest Ratio 3:1 Overload Capacity 102%~105% load, 30min; 105%~125% load, 10min; (Line Mode) 102%~105% load, 10min; 105%~125% load, 500ms Overload Capacity 102%~105% load, 10min; 105%~125% load, 500ms Overload Capacity 102%~105% load, 10min; 105%~125% load, 500ms Battery Sealed lead acid maintenance free Nominal Voltage 192Vdc / 240Vdc Battery Number 7Ah*16pcs External Charging Current 1A 1-12A settable 1A 1-12A settable Efficiency Line Mode 95% Battery Mode	Capacity	6kVA/6kW 10kVA/10kW						
Voltage Range	Input							
Frequency Range	Rated Voltage		208/ 220/230/24	10Vac, L+N+PE				
Power Factor ≥0.99	Voltage Range		110~3	00Vac				
THDi	Frequency Range		40-7	0Hz				
Output Rated Voltage 208/220/230/240Vac, L+N+PE Voltage Regulation ±1% Frequency 50/60Hz±0.1% THDu ≤2% (linear load); ≤5% (non-linear Load) Transfer Time Zero Waveform Pure sine wave Crest Ratio 3:1 Overload Capacity (Line Mode) 102%~105% load, 30min; 105%~125% load, 10min; (Line Mode) Overload Capacity (Battery Mode) 102%~105% load, 10min; 105%~125% load, 1min; (Battery Mode) Battery Sealed lead acid maintenance free Nominal Voltage 192Vdc / 240Vdc Battery Number 7Ah*16pcs External 9Ah*16pcs External Charging Current 1A 1-12A settable 1A 1-12A settable Efficiency Efficiency 100 de 95% 98% ECO Mode 98% 00 de 98% Communication RS232 / USB/ SNMP card(optional) /Dry contact card (optional) Environment Operation Temperature 0~40°C 0~40°C	Power Factor		≥0.	.99				
Rated Voltage 208/220/230/240Vac, L+N+PE Voltage Regulation ±1% Frequency 50/60Hz±0.1% THDu ≤2% (linear load); ≤5% (non-linear Load) Transfer Time Zero Waveform Pure sine wave Crest Ratio 3:1 Overload Capacity 102%~105% load, 30min; 105%~125% load, 10min; (Line Mode) Overload Capacity 102%~150% load, 10min; 105%~125% load, 1min; (Battery Mode) Battery 102%~150% load, 10min; 105%~125% load, 500ms Battery Battery Sealed lead acid maintenance free Nominal Voltage 192Vdc / 240Vdc Battery Number 7Ah*16pcs External 9Ah*16pcs External Charging Current 1A 1-12A settable 1A 1-12A settable Efficiency Line Mode 95% Battery Mode 94.5% ECO Mode 98% Communication Interface RS232 / USB/ SNMP card(optional) /Dry contact card (optional) Environment 0~40 °C	THDi		≤5%(linear load); ≤8	3%(non-linear load)				
Voltage Regulation ±1% Frequency 50/60Hz±0.1% THDu ≤2% (linear load); ≤5% (non-linear Load) Transfer Time Zero Waveform Pure sine wave Crest Ratio 3:1 Overload Capacity 102%~105% load, 30min; 105%~125% load, 10min; (105%~125% load, 500ms) Overload Capacity 102%~105% load, 10min; 105%~125% load, 1min; (125%~150% load, 500ms) Overload Capacity 102%~105% load, 10min; 105%~125% load, 1min; (125%~150% load, 500ms) Battery Sealed lead acid maintenance free Nominal Voltage 192Vdc / 240Vdc Battery Number 7Ah*16pcs External 9Ah*16pcs External Charging Current 1A 1-12A settable 1A 1-12A settable Efficiency Line Mode 95% Battery Mode 94.5% ECO Mode 98% Communication Interface RS232 / USB/ SNMP card(optional) /Dry contact card (optional) Environment O~40°C	Output							
Frequency 50/60Hz±0.1% THDu ≤2% (linear load); ≤5% (non-linear Load) Transfer Time Zero Waveform Pure sine wave Crest Ratio 3:1 Overload Capacity 102%~105% load, 30min; 105%~125% load, 10min; (line Mode) Overload Capacity 102%~105% load, 10min; 105%~125% load, 500ms Overload Capacity 102%~150% load, 10min; 105%~125% load, 500ms Battery Sealed lead acid maintenance free Nominal Voltage 192Vdc / 240Vdc Battery Number 7Ah*16pcs External 9Ah*16pcs External Charging Current 1A 1-12A settable 1A 1-12A settable Efficiency Line Mode 95% Battery Mode 94.5% ECO Mode 98% Communication Interface RS232 / USB/ SNMP card(optional) /Dry contact card (optional) Environment Operation Temperature 0~40°C	Rated Voltage		208/220/230/24	OVac, L+N+PE				
THDu ≤2% (linear load); ≤5% (non-linear Load) Transfer Time Zero Waveform Pure sine wave Crest Ratio 3:1 Overload Capacity 102%~105% load, 30min; 105%~125% load, 10min; (Line Mode) 125%~150% load, 30min; 105%~125% load, 500ms Overload Capacity 102%~105% load, 10min; 105%~125% load, 500ms Overload Capacity 102%~105% load, 10min; 105%~125% load, 1min; (Battery Mode) 125%~150% load, 10s; >150% load, 500ms Battery Battery Type Sealed lead acid maintenance free Nominal Voltage 192Vdc / 240Vdc Battery Number 7Ah*16pcs External 9Ah*16pcs External Charging Current 1A 1-12A settable 1A 1-12A settable Efficiency Line Mode 95% Battery Mode 94.5% ECO Mode 98% Communication Interface RS232 / USB/ SNMP card(optional) /Dry contact card (optional) Environment Operation Temperature	Voltage Regulation		±1	%				
Transfer Time Zero Waveform Pure sine wave Crest Ratio 3:1 Overload Capacity 102%~105% load, 30min; 105%~125% load, 10min; (105%~125% load, 500ms) Overload Capacity 102%~105% load, 10min; 105%~125% load, 1min; (8attery Mode) Battery 125%~150% load, 10s; >150% load, 500ms Battery Sealed lead acid maintenance free Nominal Voltage 192Vdc / 240Vdc Battery Number 7Ah*16pcs External 9Ah*16pcs External Charging Current 1A 1-12A settable 1A 1-12A settable Efficiency Line Mode 95% 94.5% 95% Battery Mode 94.5% 98% Communication Communication Interface RS232 / USB/ SNMP card(optional) /Dry contact card (optional) Environment 0~40 °C Contact card (optional) Contact car	Frequency		50/60H	z±0.1%				
Waveform Pure sine wave Crest Ratio 3:1 Overload Capacity 102%~105% load, 30min; 105%~125% load, 10min; (Line Mode) 125%~150% load, 30s; >150% load, 500ms Overload Capacity 102%~105% load, 10min; 105%~125% load, 1min; (Battery Mode) 125%~150% load, 10ms; >150% load, 500ms Battery Battery Battery Type Sealed lead acid maintenance free Nominal Voltage 192Vdc / 240Vdc Battery Number 7Ah*16pcs External Charging Current 1A 1-12A settable 1A 1-12A settable Efficiency Line Mode 95% Battery Mode 94.5% ECO Mode 98% Communication Interface RS232 / USB/ SNMP card(optional) /Dry contact card (optional) Environment Operation Temperature 0~40 °C	THDu		≤2% (linear load); ≤5	% (non-linear Load)				
Crest Ratio 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 maintenance free Nominal Voltage 192Vdc / 240Vdc Battery Number 7Ah*16pcs External 9Ah*16pcs External Charging Current 1A 1-12A settable 1A 1-12A settable Efficiency Line Mode 95% Battery Mode 94.5% ECO Mode 98% Communication Interface RS232 / USB/ SNMP card(optional) /Dry contact card (optional) Environment 0~40 °C	Transfer Time		Ze	ro				
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 Battery Type Sealed lead acid maintenance free Nominal Voltage Nominal Voltage 192Vdc / 240Vdc Battery Number 7Ah*16pcs External Charging Current 1A 1-12A settable Line Mode 95% Battery Mode 94.5% ECO Mode 98% Communication Interface RS232 / USB/ SNMP card(optional) /Dry contact card (optional) Environment 0~40 ℃	Waveform		Pure sir	ne wave				
(Line Mode) 125%~150% load, 30s; >150% load, 500ms Overload Capacity (Battery Mode) 102%~105% load, 10min; 105%~125% load, 1min; 125%~150% load, 500ms Battery Battery Sealed lead acid maintenance free Nominal Voltage 192Vdc / 240Vdc Battery Number 7Ah*16pcs External 9Ah*16pcs External Charging Current 1A 1-12A settable 1A 1-12A settable Efficiency Line Mode 95% Battery Mode 94.5% ECO Mode 98% Communication Interface RS232 / USB/ SNMP card(optional) /Dry contact card (optional) Environment 0~40 °C	Crest Ratio		3:	:1				
(Line Mode) 125%~150% load, 30s; >150% load, 500ms Overload Capacity (Battery Mode) 102%~105% load, 10min; 105%~125% load, 1min; 125%~150% load, 500ms Battery Battery Sealed lead acid maintenance free Nominal Voltage 192Vdc / 240Vdc Battery Number 7Ah*16pcs External 9Ah*16pcs External Charging Current 1A 1-12A settable 1A 1-12A settable Efficiency Line Mode 95% Battery Mode 94.5% ECO Mode 98% Communication Interface RS232 / USB/ SNMP card(optional) /Dry contact card (optional) Environment 0~40 °C	Overload Canacity	1029	%~105% load 30min·	105%~125% load 1	Omin:			
Overload Capacity (Battery Mode) 102%~105% load, 10min; 105%~125% load, 1min; 125%~150% load,10s; >150% load, 500ms Battery Battery Battery Type Sealed lead acid maintenance free Nominal Voltage 192Vdc / 240Vdc Battery Number 7Ah*16pcs External 9Ah*16pcs External Charging Current 1A 1-12A settable 1A 1-12A settable Efficiency Line Mode 95% 98% Battery Mode 94.5% 98% Communication Interface RS232 / USB/ SNMP card(optional) /Dry contact card (optional) Environment 0~40 °C				THE SELECTION OF SHORT OF SHORT OF SHIP OF SHI				
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Battery Battery Type Sealed lead acid maintenance free Nominal Voltage Battery Number 7Ah*16pcs External 9Ah*16pcs External Charging Current 1A 1-12A settable 1A 1-12A settable Efficiency Line Mode 95% Battery Mode 94.5% ECO Mode 98% Communication Interface RS232 / USB/ SNMP card(optional) /Dry contact card (optional) Environment Operation Temperature					(C. **)			
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Efficiency Line Mode 95% Battery Mode 94.5% ECO Mode 98% Communication Interface RS232 / USB/ SNMP card(optional) /Dry contact card (optional) Environment Operation Temperature 0~40°C			TO PARTY OF THE STORES OF THE					
Line Mode 95% Battery Mode 94.5% ECO Mode 98% Communication Interface RS232 / USB/ SNMP card(optional) /Dry contact card (optional) Environment Operation Temperature 0~40°C		1A	1-12A settable	1A	1-12A settable			
Battery Mode 94.5% ECO Mode 98% Communication Interface RS232 / USB/ SNMP card(optional) /Dry contact card (optional) Environment Operation Temperature 0~40°C								
ECO Mode 98% Communication Interface RS232 / USB/ SNMP card(optional) /Dry contact card (optional) Environment Operation Temperature 0~40 ℃								
Communication Interface RS232 / USB/ SNMP card(optional) /Dry contact card (optional) Environment 0~40 °C								
Interface RS232 / USB/ SNMP card(optional) /Dry contact card (optional) Environment Operation Temperature 0~40 °C			98	3%				
Environment Operation Temperature 0~40℃	Communication				PE 20 (\$25.00)			
Operation Temperature 0~40 ℃	Interface	RS232 / USB/ SNMP card(optional) /Dry contact card (optional)						
	Environment	onment						
Humidity $0 \sim 0.50\%$ (non-condensing)	Operation Temperature	0~40℃						
	Humidity	0~95%(non-condensing)						
Noise ≤50dB@1meter away	Noise	≤50dB@1meter away						
Altitude Up to 1000m without derating	Altitude	Up to 1000m without derating						
Physical	Physical							
Dimensions (W*D*H) mm	Dimensions (W*D*H) mm	440x753x173	440x487x86	440x753x173	440x487x86			
Weight (kg) 58 11 61.3 12	Weight (kg)	58	11	61.3	12			

All specifications are subject to change without prior notice.



CNH310R SERIES RACK ONLINE UPS 10-20kVA

10/15/20kVA

1Phase or 3Phase Input/1Phase Output



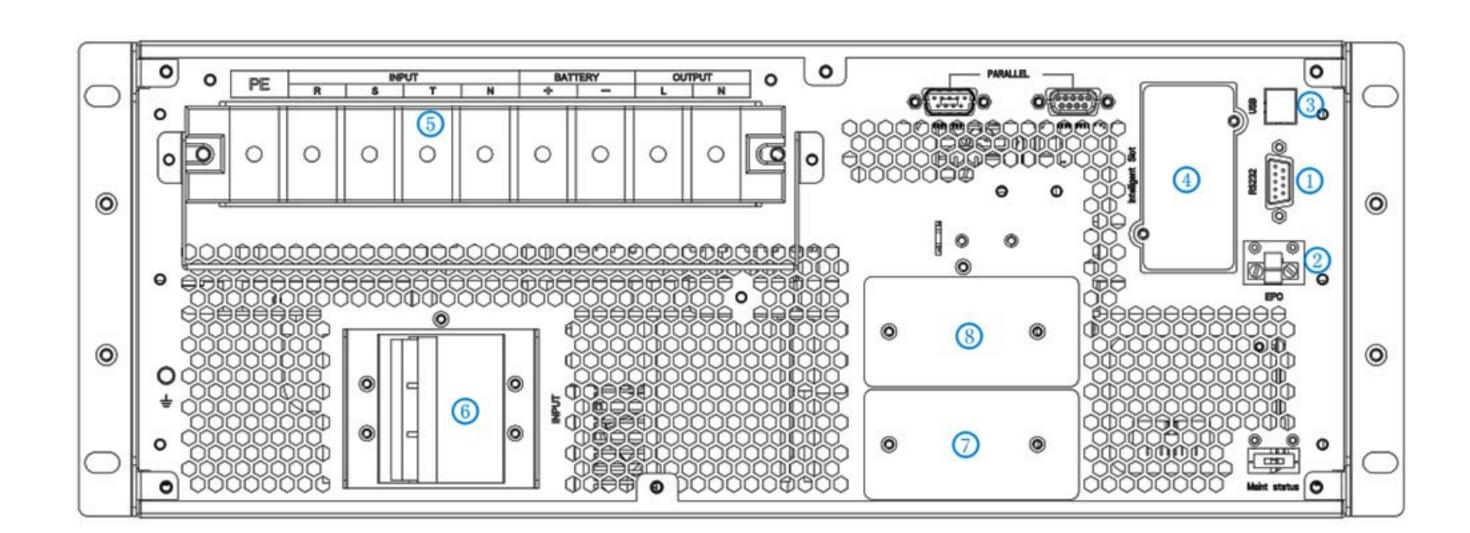
Features

- True online double-conversion technology
- Wide input voltage range
- DSP based technology
- Advanced PFC technology,input PF>99%
- Cold start
- Lighting and surge protection
- LCD/LED display
- Supprot generator connection
- Smart slot for mission critical applications

Application

IDC (Internet Data Center), network, servers and workstations, control system, communication system, office, PC etc.

Rear Panel



10KL/15KL/20KL

- ① RS232 port
- 2 EPO/ROO (Remote ON OFF) Port
- 3 USB Port
- 4 Intelligent Slot for SNMP/MODBUS/DRY Contact Card Etc
- (5) Input and Output and Battery Terminal Block
- AC Input switch
- ② AC Output Switch
- Maintenance Bypass Switch

Madal	CNILI24OD 4OKI	CNH310R 15KL	CNH310R 20KL				
Model	CNH310R 10KL	CNH110R 15KL	CNH110R 20KL				
Capacity	10kVA/10kW	15kVA/15kW	20kVA/20kW				
Input							
Rated Voltage	220/230/240Vac L+N	N+PE or 380/400/415Vac,3Ph	n+N+PE				
Voltage Range	156~520Vac						
Frequency Range	40~70Hz						
Power Factor	≥0.99						
Output							
Rated Voltage	208/220/230/240Va	c, L+N+PE					
Voltage Regulation	±1%						
Frequency	50/60Hz±0.1%						
THDu	≤2%(linear load); ≤	7%(non-linear load)					
Transfer Time	Zero						
Waveform	Pure sine wave						
Crest Ration	3:1						
	105%~125% load, 10	Omin;					
Overload Capacity	126%~150% load, 1r						
(Line Mode)	>150% load, 100ms						
	- 15070 10010						
Overload Capacity	105%~125% load, 1S;						
(Battery Mode)	>126% load, 100ms						
Battery							
Battery Type	Sealed lead acid mai	intenance free					
Nominal Voltage	190Vdc / 240Vdc						
Battery Number	External						
Charging Current	1-12A						
Efficiency							
Line Mode	94%						
Battery Mode	92%						
ECO Mode	98%						
Communication							
Interface	Rs232/ USB/ SNMP o	card (optional) / Dry contact card	ard (optional)				
Environment							
Operation Temperature	0~40°C						
Humidity	0~95% (non-condensing)						
Noise	≤55dB @ 1 meter av	vay					
Altitude	Up to 1000m without derating						
Physical							
Dimensions (W*D*H) mm	440*612*173 (4U)	440*612*173 (4U)	440*612*173 (4U)				
Weight (kg)	25.6	25.6	26.1				

All specifications are subject to change without prior notice.

CNBR SERIES Battery Cabinet



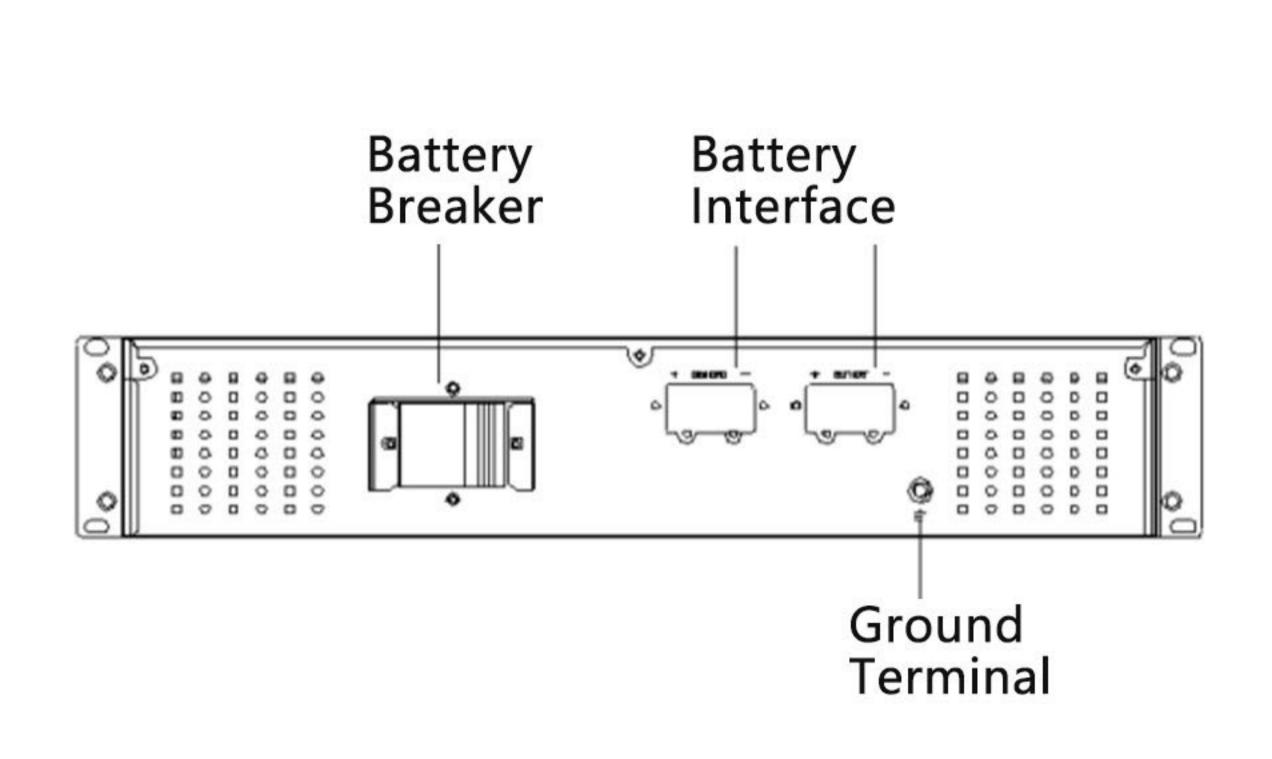
Introduction

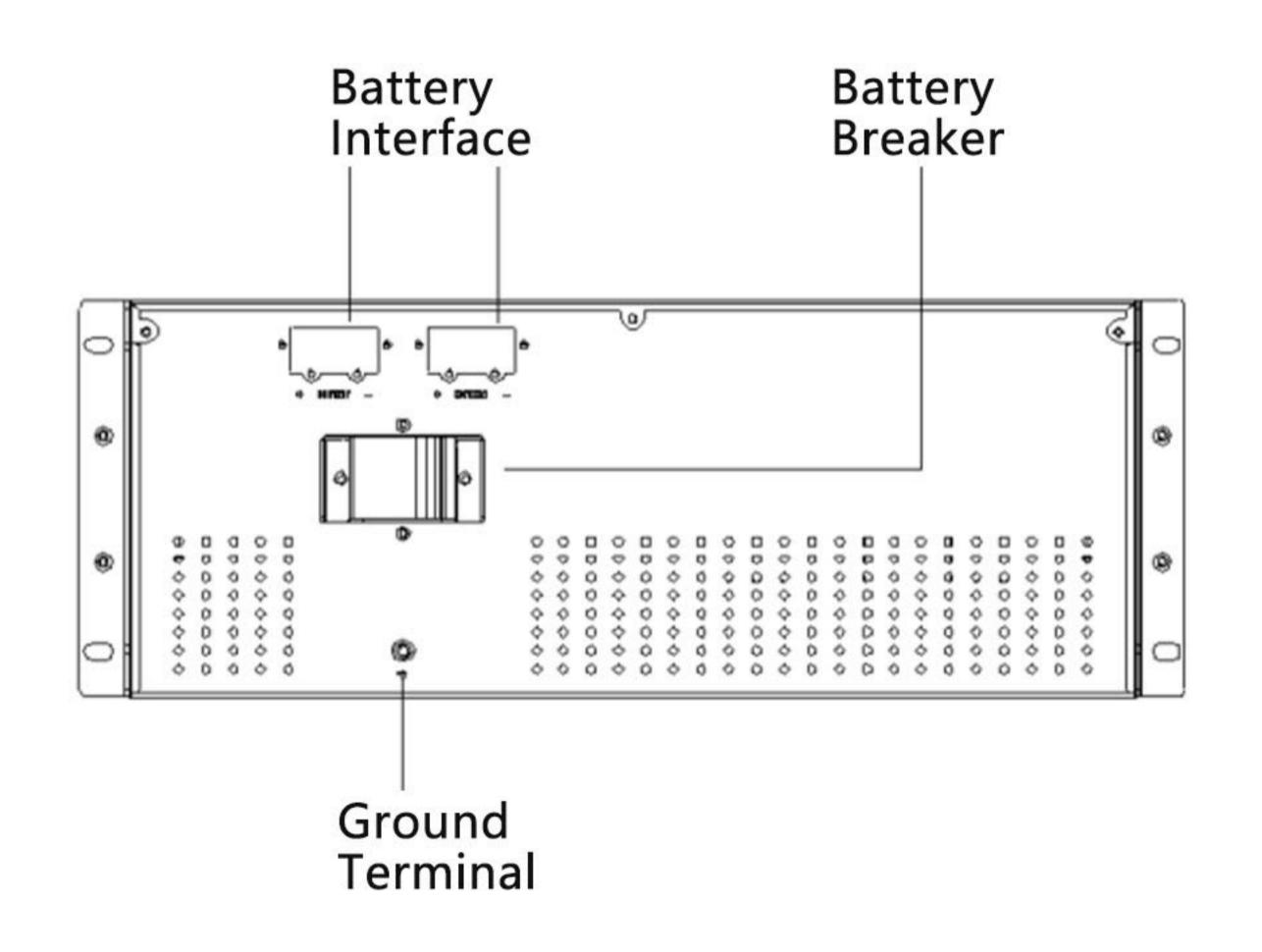
The battery cabinets are made up with the plastic front-panels and the steel enclosures, they can perfectly match up with single phase 1-20KVA UPS.

Features

- The appearance of the battery cabinet is similar to the UPS's, looking nice
- Anderson terminals are used to connect the UPS and the battery cabinet, easy connection
- The battery cabinet is configured with battery breaker, more safer in use

Rear Panel





Model	Voltage of Battery String (Vdc)		Battery Capacity (Ah)	Size of Battery Breaker (A)	Size of Battery Cable (AWG)	Weight (kg)	Dimension (W*D*H)mm
CNBR24-7AH	24	2	7	63	10	9	
CNBR24-9AH	24	2	9	63	10	12	
CNBR24-7AH	24	4	7	63	10	16	
CNBR24-9AH	24	4	9	63	10	17	
CNBR36-7AH	36	3	7	32	10	14	
CNBR36-9AH	36	3	9	32	10	15	
CNBR36-7AH	36	6	7	32	10	21	
CNBR36-9AH	36	6	9	32	10	22	440*446*86
CNBR48-7AH	48	4	7	63	10	16	
CNBR48-9AH	48	4	9	63	10	17	
CNBR48-7AH	48	8	7	63	10	26	
CNBR48-9AH	48	8	9	63	10	28	
CNBR72-7AH	72	6	7	63	10	21	
CNBR72-9AH	72	6	9	63	10	22	
CNBR96-7AH	96	8	7	63	10	26	
CNBR96-9AH	96	8	9	63	10	28	
CNBR192-7AH-2U	192	16	7	63	10	48	440*767*86
CNBR192-9AH-2U	192	16	9	63	10	51	
CNBR192-7AH-4U	192	16	7	63	10	49	
CNBR192-9AH-4U	192	16	9	63	10	52	
CNBR192-7AH-4U-20K	192	16	7	125	6	50	
CNBR192-9AH-4U-20K	192	16	9	125	6	53	110*116*172
CNBR240-7AH-4U	240	20	7	63	10	59	440*446*173
CNBR240-9AH-4U	240	20	9	63	10	63	
CNBR240-7AH-4U-20K	240	20	7	125	6	60	
CNBR240-9AH-4U-20K	240	20	9	125	6	64	

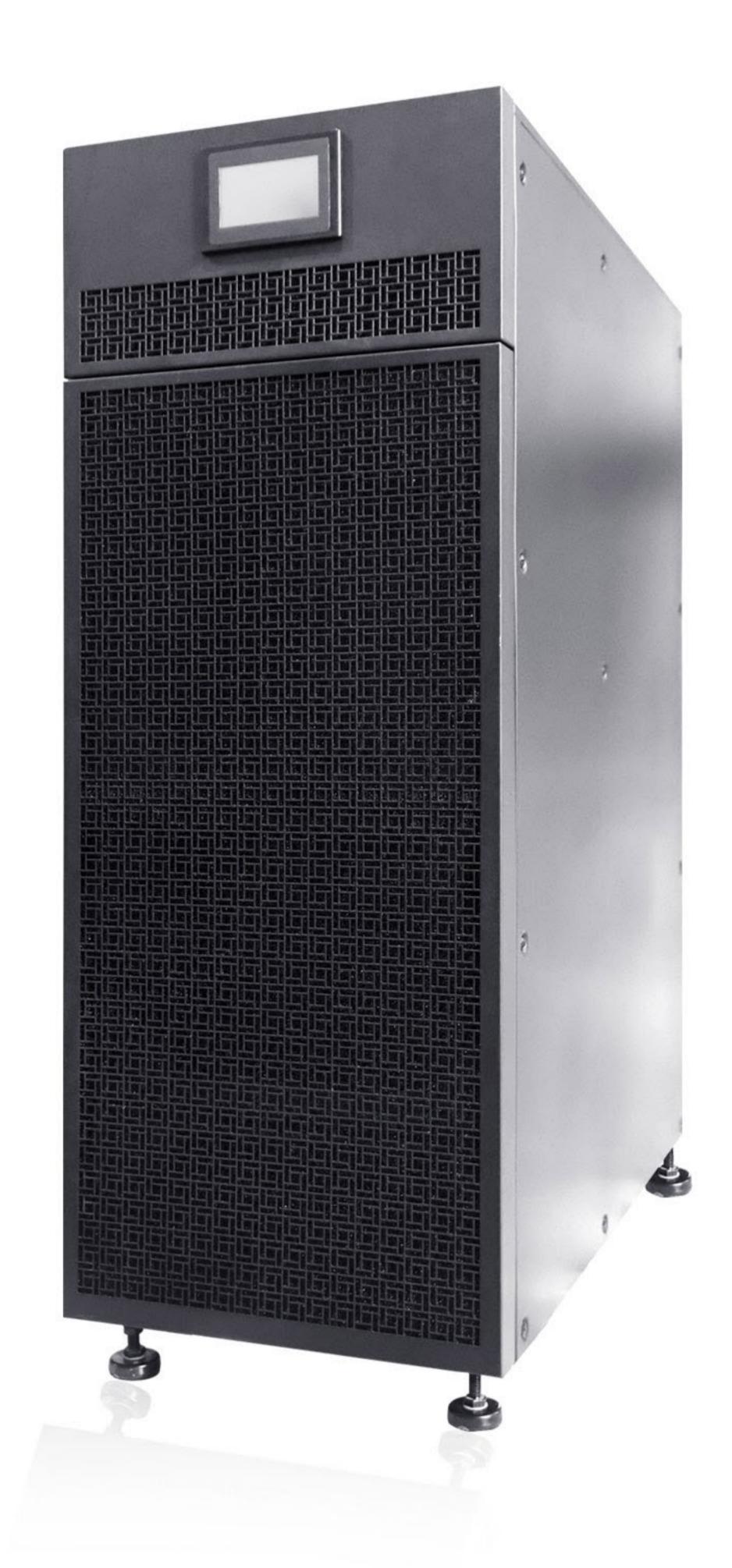
All specification are subject to change without prior notice.



CNH330 SERIES Tower ONLINE UPS 10-160kVA

10-160kVA 3Phase Input/3Phase Output





Features

Integrated Solution for Data Center

UPS can be integrated with battery cabinet, PDU external maintenance bypass, offering excellent choice for data center.

3Phase In/3Phase Out UPS

It is 3Phase In/3Phase Out high-density UPS system, of which input current is kept in balance, No unbalance problem might occur.

Digital Control

This series UPS is controlled by digital signal processor(DSP); enhance it increases reliability, performance, self-protection, and self-diagnostics and so on.

Battery Configurable

The battery voltage of this series UPS can be configured at 30 blocks,32 blocks, 34 blocks, 36 blocks,38 blocks, 40 blocks, 42 blocks, 44 blocks, 46 blocks, 48 blocks or 50 blocks according to your convenience.

EPO Function

The series UPS may be completely shut off when the EPO is pressed.REPO function(Remote EPO) is also available in this series UPS.

Intelligent Charging Method

The series UPS adopts advanced three-stage charging method:

- 1st stage: high current constant charging to guarantee to charge back to 90%;
- 2nd stage: Constant voltage in order to bitalize battery and make sure batteries are fully charged;
- 3rd stage: floating mode. with this 3-stage charging method, it extends the life of the batteries and guarantees fast charging.

LCD Display

With LCD displays, the user may easily get UPS Status and its operational parameters, such as input/output voltage, frequency & load%, banttery % and ambient termperature, etc...

Intelligent Monitoring Function

Via optional SNMP Card, you may remotely control and monitor the UPS.

Charging Current is Configurable

Via setting tool, the user may set the capacity of the batteries aswell as reasonable charging current as well as maximum charging current. Constant voltage mode, constant current mode or floating mode can be switched automatically and smoothly.

		CNH3	30 10-160KVA			
Model	10-40KVA	60KVA	80KVA	100KVA	120KVA	160KVA
Input						4-1-
Nominal Voltage	380/400/415 Vac	(3Ph+N+PE)				
Operating Voltage Range	138~485Vac					
Operating Frequency Range	40Hz-70Hz					
Power Factor	≥0.99					
Harmonic Distortion (THDi)	≤3% (100% non-l	inear load)				
Harmonic Distortion (THDi)	240Vac Mac.Volt	age: +25% (optional age: +15% (optional ronize tracing range:	+10%)		+20% (optional +10 -45% (optional-20%	1979
Generator Input	Support					
Output						
Output Voltage	380/400/415Vac	(3Ph+N+PE)				
Voltage Regulation	±1%					
Power Factor	0.9					
Output Frequency		nchronize with input; 50/60*(1±0.02%)Hz		cy > ±10% (±1% ,	/±2% /±4% /±5% op	tional)
Crest Factor	3:1					
Harmonic Distortion (THD)	≤2% with linear load ≤4% with non linear load					
Efficiency	95%					
Battery						
Battery Voltage	[27] [1] · [1] 아이들 : [1] - [1] [1] - [1] - [1] [1] - [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]	: ±180V/ ±192V/ ±20 /40/42/44/46/48/50		±240/ ±252/ ±26	4/ ±276/± 288/300\	/dc
Charge Current (A) (charge current can be set according to battery capacity installed)	10-20k Max 5A 30-40k Max 10A	Max. 15A				MaX. 45A
System Features						
Transfer Time	Utility to battery:	Oms; Utility to bypas:	s: 0ms			
Overload	Load≥110%: last 6	50min, ≤125%: last 10)min, ≤150%: last 1 m	nin		
Alarm	Overload, utility a	bnormal, UPS fault,b	attery low, etc			
Backfeed	Support					
Protection	Short circuit, over	rload, over temperati	ure, battery low, fan f	fault alarm		
Communication	USB,RS232,RS485,I	Parllel port, REPO port,	LBS port, Backfeed po	rt, Intelligent slot,	SNMP card (optional)	, Relay card (option
Environmental						
Operating Temperature	0°C~40°C					
Strorage Temperature	-25°C~55°C (no battery)					
Humidity Range	0~95% (non cond	/ 1939				
Altitude		1500mm, lower the	rated power for use			
Noise Level	<58dB	<60dB	<62dB	<63dB	<65dB	<66dB
Physical			1		1.5	I.
Dimensions H/S D*W*H(mm)	720*250*535	865*250*862		88	85*440*1200	
Net Weights (kg)	10K:33 / 15K:33.5 20K:34 / 30K:35 40K: 40		150		162	196
Standards						
Safety	IEC/ENI62040 1	, IEC/EN60950-1				



CNH330R SERIES RACK ONLINE UPS 10-40kVA

10-40kVA

3Phase Input/3Phase Output



This series UPS is a kind of three-in/three -out high frequency online UPS, it provides 10KVA, 15KVA, 20KVA,30KVA and 40KVA. The products are modularized and adopt the N+X redundancy. It can flexibly increase the number of the UPS modules according to the load capacity which is convenient for flexible allocation and gradually investment.

The UPS can solve most of the power supply problems, such as blackout, over-voltage, under-voltage, voltage sudden drop, oscillating of decreasing extent, high voltage pulse, voltage fluctuation, surge, inrush current, harmonic distortion (THD), noise interference, frequency fluctuation, etc..

This UPS can be applied to different applications from computer device, automatic equipment, communication system to industry equipment.

Features

3Phase In/3Phase Out UPS

It is 3Phase In/3Phase Out high-density UPS system, of which input current is kept in balance.No unbalance problem might occur.

Digital Control

This series UPS is controlled by Digital Signal Processor (DSP); it increases reliability, performance, self-protection, self-diagnostics and so on.

Compact Design

This series UPS adopts compact design concept. The capacities are available for 10KVA, 15KVA, 20KVA, 30KVA and 40KVA.

Battery Configurable from 30 blocks to 50 blocks

The battery voltage of this series UPS can be configured at 30 blocks, 32 blocks, 34 blocks, 36 blocks, 38 blocks, 40 blocks, 42 blocks, 44 blocks, 46 blocks, 48 blocks or 50 blocks according to your convenience.

Charging Current is Configurable

Via setting tool, the user may set the capacity of the batteries as well as reasonable charging current as well as maximum charging current. Constant voltage mode, constant current mode or floating mode can be switched automatically and smoothly.

Intelligent Charging Method

The series UPS adopts advanced three-stage charging method—1st-stage: high current constant current charging to guarantee to charge back to 90%;

2nd-stage: Constant Voltage In order to vitalize battery and make sure batteries are fully charged;

3rd-stage: floating mode.

With this 3-stage charging method, it extends the life of the batteries and guarantees fast charging.

LCD Display

With LCD plus LED displays, the user may easily get UPS status and its operational parameters, such as input/output voltage, frequency & load%, battery % and ambient temperature, etc..

Intelligent Monitoring Function

Via optional SNMP Card, you may remotely control and monitor the UPS.

EPO Function

The series UPS may be completely shut off when the EPO is pressed. REPO function(Remote EPO) is also available in this series UPS.

Capacaity	CNH330R 10-40KVA				
Input					
Phase	3Phase/4Wires + Ground				
Rated Voltage	380/400/415Vac				
Voltage Range	138~476Vac				
Frequency Range	40~70Hz				
Power Factor	≥0.99				
Bypass Voltage Range	Max. voltage: +15%(optional +5%、+10%、+25%) Max. voltage: -45%(optional -20%、-30%) Frequency protection range: ±10%				
Current Harmonic	≤3% (100% linear load)				
Output					
Phase	3Phase/4Wires + Ground				
Rated Voltage	380/400/415Vac				
Power Factor	0.9				
Voltage Precision	±1%				
Output Frequency Utility Mode	±1%、±2%、±4%、±5%、±10% of the rated frequency (optional)				
Battery Mode	(50/60±0.2)Hz				
Crest Factor	3:1				
Transfer Time	Utility to battery: 0ms				
Overload Capacity	Load≤110%, 60min, ≤125% last 10min, ≤150% last 1min,≥150% shut down UPS immediately				
THD	≤2% with linear load ≤5% with non liear load				
Efficiency					
Efficiency	ECO mode≥98%; Normal mode≥95%				
Comunication Interface					
UPS Module	RS485、SNMP card (optional)				
Battery					
Voltage	±180V ±192V ±204V ±216V ±228V ±240V ±252V ±264V ±276V ±288V ±300Vdc optional				
Charge Current(A)	Maximum current 10A				
Backup Time	Depends on the capacity of external batteries				
Operating Environment					
Temperature	0°C~40°C				
Humidity	0~95% non condensing				
Storage Temperature	-25℃~55℃				
Altitude	< 1500m				
Other					
Unit Dimensions (W*H*D)	485x130x728mm				
Weight (Kg)	23/25/25/26/28.5				
Industry Standard	CE, EN/IEC 62040-2, EN/IEC 62040-1-1				

CONSNANT

CNM330 SERIES MODULAR ONLINE UPS 200-600kVA





Introduction

Our CNM330 Series is a kind of three-in-three-out high frequency online UPS, it provides three specifications: The 200~600kVA. The products are modularized and adopt the N+X redundancy. It can flexibly increase the number of the UPS modules according to the load capacity which is convenient for flexible allocation and gradually investment.

The UPS can solve most of the power supply problems, such as blackout, over-voltage, under-voltage sudden drop, oscillating of decreasing extent, high voltage pulse, voltage fluctuation, surge, inrush current, harmonic distortion (THD), noise interference, frequency fluctuation, etc..

This UPS can be applied to different applications from computer device, automatic equipment, communication system to industry equipment.

Features

- Digital control
- 19-inch standard cabinet (2-meter high cabiners are provided according to the user's requirement).
- Modularized design
- High power-density design, The height of the single module is 3U.

Features

N+X Parallel Redundancy

This series UPS adopts N+X parallel redundancy design, user can set different redundancy according to the importance of the load. While the redundancy modules are set more than two, the availability of UPS system will achieve 99.999%, which may satisfy the required reliability of the critical load connected. Through LCD display setting, you may configure the required quantity of the redundancy unit. When the load connected is over the number of the redundancy, the UPS will alert right away. The design of the MTBF (Meantime before failure) is up to 250,000 hours.

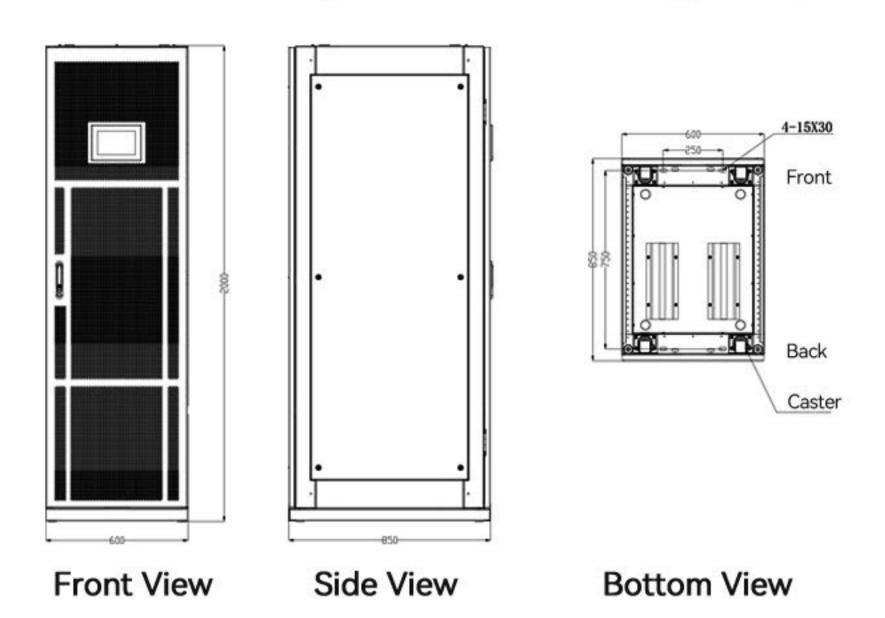
This series can set the number of redundancy modules. When the load exceeds the redundancy setting, the UPS can still work normally and simultaneously send out corresponding warning as long as the load doesn't exceed the total capacity of modules.

- Parallel redundant control system
- Optimizing distributed convergence for the cabinet
- Centralized bypass
- Common battery
- Automatic charge current adjustment according to battery capacity connected.
- 3-Stage intelligent charging
- Touch-screen Super-large LCD display
- Remote monitoring via SNMP
- Optional Accessories available such as isolation transformer, distribution Panle, SNMP Card,
 Relay Contact Board, etc...
- Equip with Maintenance Bypass Switch for easy maintenance purpose
- Superior MTTR (Meantime to repair) & Short shutdown time in maintenance
- Centralized monitoring module is also available
- EPO and REPO function

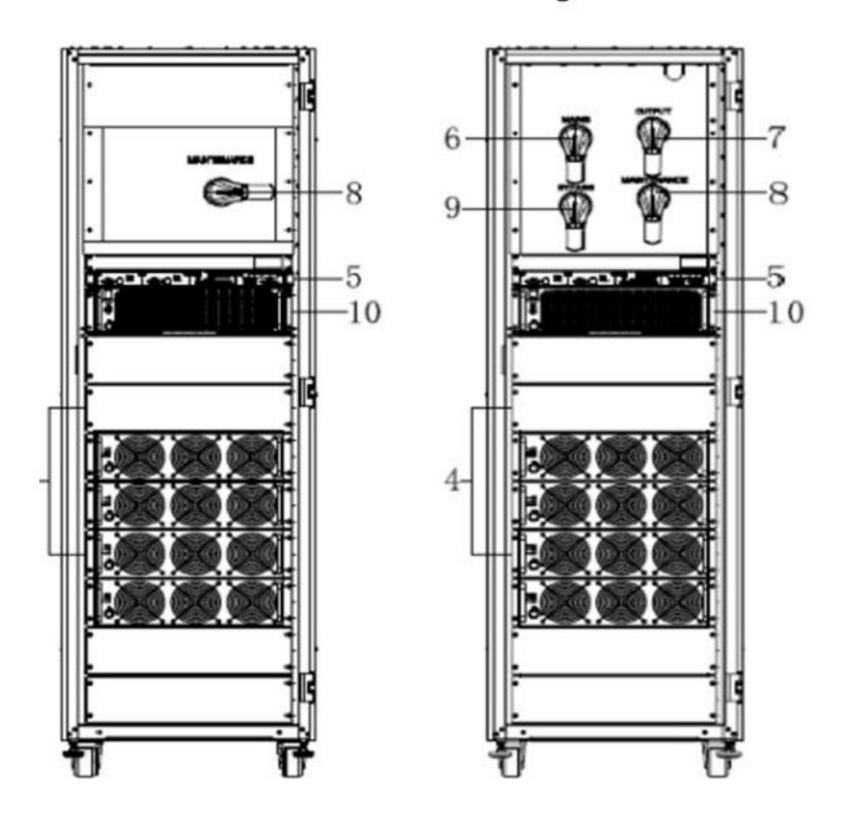


Appearance

200/300/400kVA (Standard and Full Configuration)

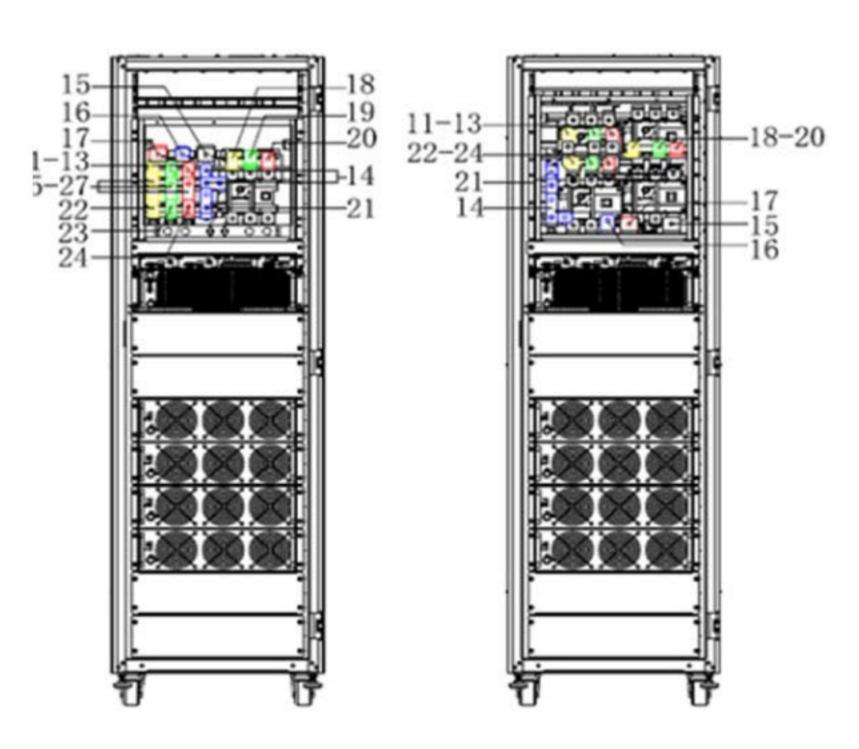


200kVA (Standard and Full Configuration)



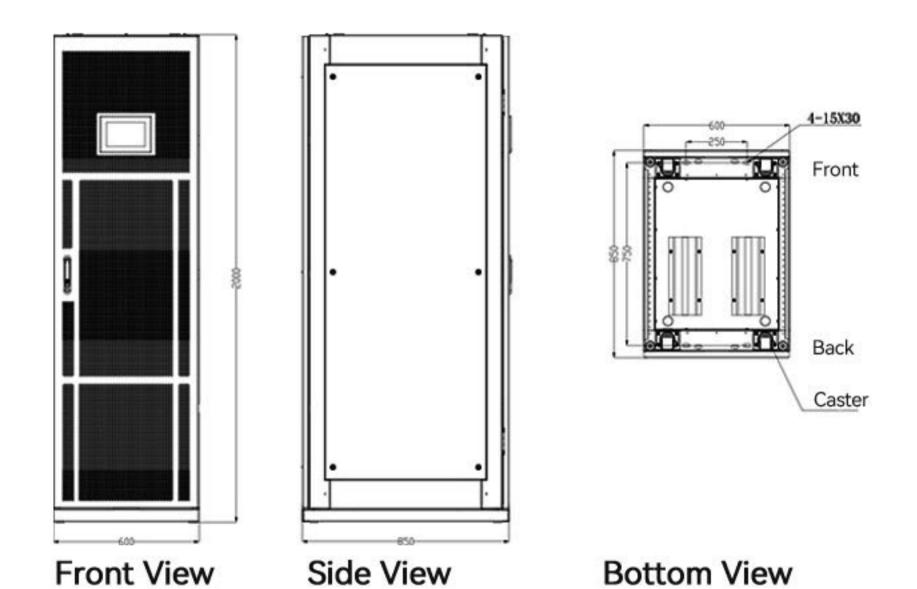
Full Configuration

Standard Configuration

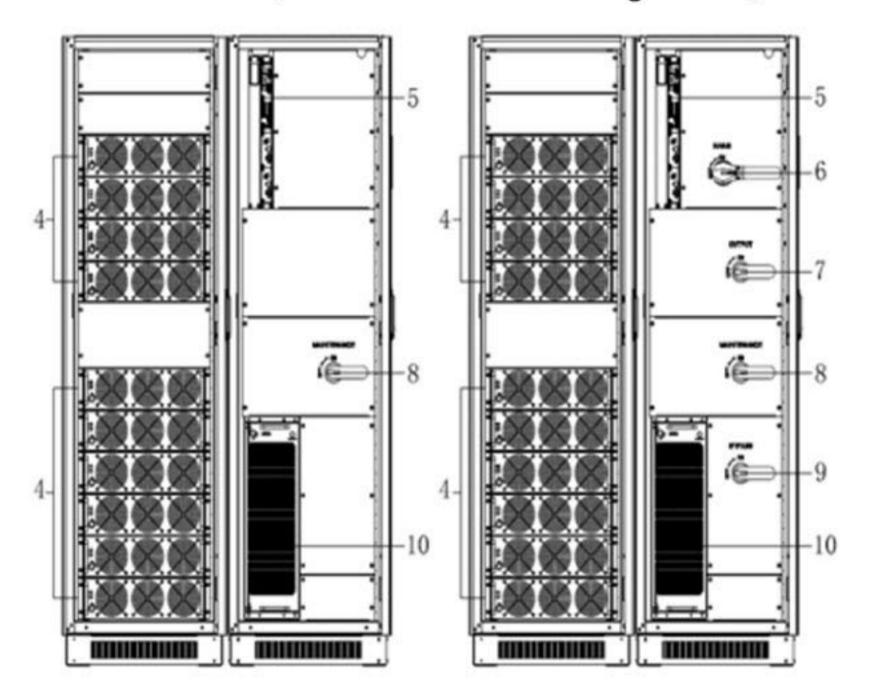


Connect Copper Bar

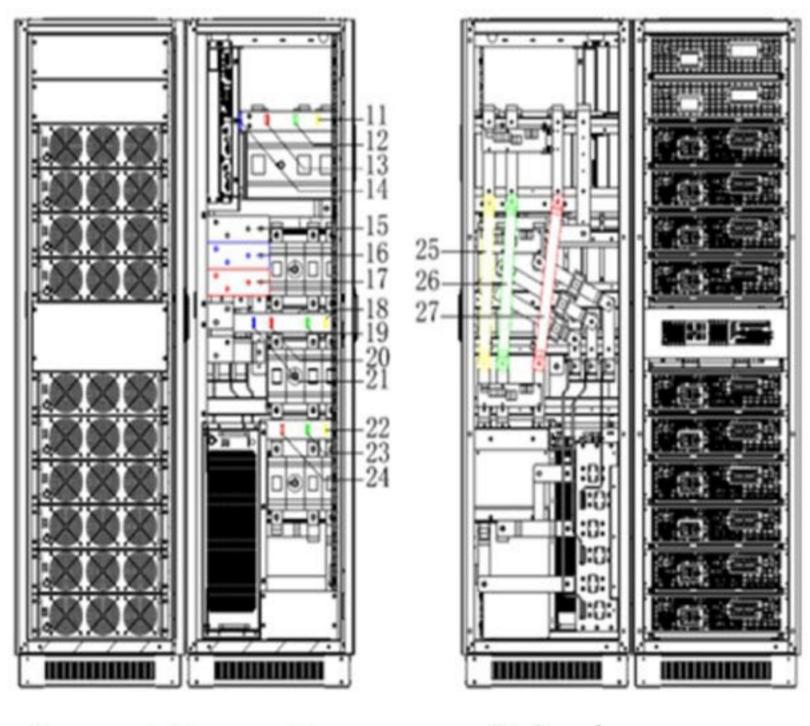
400/500/600kVA (Standard and Full Configuration)



500kVA (Standard and Full Configuration)



Standard Configuration Full Configuration



Connect Copper Bar Mains-bypass
Common Copper Bar

Notice:

- (1) LCD panel: Display UPS data and status
- (2) Power cabinet: Assembly power module
- (3) Power distribution cabinet: Assembly control unit, bypass module and switch
- (4) Power module
- (5) Control unit
- (6) Mains switch
- (7) Output switch
- 25 OT 10.82
- (8) Maintenance switch
- (10) Bypass module

(9) Bypass switch

- (11) Mains-A input copper bar

(12) Mains-B input copper bar

- (13) Mains-C input copper bar
- (14) Input neutral copper bar
- (15) Battery negative copper bar
- (16) Battery neutral copper bar
- (17) Battery positive copper bar
- (18) Output-A input copper bar
- (19) Output-B input copper bar
- (20) Output-C input copper bar
- (21) Output neutral copper bar
- (22) Bypass-A input copper bar: Wiring must be used when mains-bypass separation
- (23) Bypass-B input copper bar: Wiring must be used when mains-bypass separation
- (24) Bypass-C input copper bar: Wiring must be used when mains-bypass separation
- (25) Phase A mains-bypass common input connect copper bar
- (26) Phase B mains-bypass common input connect copper bar
- (27) Phase C mains-bypass common inoput connect copper bar

Model	Configurations	Cable Routing
200kVA	50/100/150/200kVA	Supports cable routing from the top
300kVA	50/100/150/200/250/300kVA	Supports cable routing from the top and can support cable routing from the bottom if a cable entry cabinet is configured
400kVA	50/100/150/200/250/300/350/400kVA	Standard cabinet supports cable routing from the top. Full configuration cabinet supports cable routing from the bottom and top
500kVA	50/100/150/200/250/300/350/400/450/ 500kVA	Supports cable routing from the top
600kVA	50/100/150/200/250/300/350/400/450/ 500/550/600kVA	Supports cable routing from the top

- * Standard configuration: cabinet only with maintenance bypass switch
- * Full configuration: cabinet with mains, bypass, maintenance and output switch

			CNM330 200 - 600	KVA				
Model		300KVA	400KVA	500KVA	600KVA			
System Ca	pacity	50-300KVA	50-400KVA	50-500KVA	50-600KVA			
Module Ca	pacity	50KVA						
Max. Mod	ule Number	6	8	10	12			
Input								
Phase		3 Phase 4 Wires and G	round					
Rated Volt	age	380/400/415Vac						
Voltage Ra	ange			ge is 323-485Vac is derated load when ge is 305-485Vac is derated load when				
Frequency	Range	40Hz-70Hz						
Power Fac	tor	≥0.99						
Current Th	HDi	≥3% (100% nonlinear	load)					
Bypass Vol	tage Range		ptional -10%, -20%, -30%)	6); 230V: +20% (optional +10%, +15%); 2	240V: +15% (optional +10%)			
Output								
Phase		3 Phase 4 Wires and G	iround					
Rated Volt	tage	380/400/415Vac						
Power Fac	tor	1	1					
Voltage Re	egulation	±1%						
Eroguopay	Utility Mode	±1%/±2%/±4%/±5%/	±10% of the rated frequenct (o	ptional)				
Frequency	Battery Mode	(50/60±0.1)Hz						
Crest Facto	or	3:1						
THD		≤2% with linear load	≤4% with non linear load					
Overload		Inverter overload capability: • 105% < load ≤ 110%: transfer to bypass mode after 60 min • 110% < load ≤ 125%: transfer to bypass mode after 60 min • 125% < load ≤ 150%: transfer to bypass mode after 60 min Bypass overload capability: • Temperature ≤ 30°C, load ≤ 135%: run for a long time • Temperature ≤ 40°C, load ≤ 125%: run for a long time • 1000% load: run for 100 ms						
Battery								
Voltage		Optional Voltage: ±180V/192V/±204V/±216V/±228V/±240/±252/±264/±276/±288/±300Vdc (30/32/34/36/38/40/42/44/46/48/50pcs option 384Vdc~480Vdc (30~40 pcs, 40 pcs define, 36 and 50 pcs no power derating: 32~34 pcs output power factor						
Module Cl Current (A		20A						
Transfer	Time							
Transfer Ti	me	Utility to batte	ry: 0ms; Utility to bypass: 0ms					

Protection						
Short Circuit	Hold Whole System	Hold Whole System				
Overheat	Line Mode: Switch to by	pass; Backup Mode: Shut down	UPS immediately			
Battery Low	Alarm and Switch off					
Self-diagnostics	Upon powe on and softv	ware control				
EPO	Shut down UPS immedia	ately				
Battery	Advanced battery manag	gement				
Noise Suppression	Complies with EN62040-	-2				
Communication Int	erface					
Communication Interface	CAN, RS485, FE, LBS, Par	allel, Relay Card, SNMP Card (optio	nal)			
Environment						
Operating Temperature	0°C~40°C	0°C~40°C				
Storage Temperature	-25°C~55°C					
Humidity	0~95% non condensing	0~95% non condensing				
Altitude	< 1500m					
Display						
Audible & Visual	Line Failure, Battery Low,	, Overload, System Fault				
Status LED	UPS Fault, Alarm and no	rmal				
Reading on the LCD	Input Voltage, Input Freq Parameter set, History Re	uency, Output Voltage, Output Freq	uency, Load Percentage, Battery	Voltage,		
Other						
Standard Cabinet Dimensions (W*D*H)	600*850*2000mm	600*850*2000mm 1200*850*2000mm				
Full Cabinet Dimensions (W*D*H)	600*850*2000mm	1200*850*2000mm 1200*850*2000mm				
Module Dimensions (W*D*H)	440*620*130mm					
Cabinet Weight(Kg)	260	280/600	650	720		
Module Wdight(Kg)	34			,		
Safety Conformance	CE, EN/IEC 62040-3, EN/I	EC				

STANDARD: Conform to GB/IEC regulation: EMC: GB7260.0/IEC62040-2-GB/17626.2~5/IEC61000-4-2~5 SAFETY: GB4943 Note: Product specifications are subject to change without further notice.

CNM331 SERIES MODULAR ONLINE UPS 100-600kVA



Introduction

CNM330 100-600kVA is a newest generation of centralized bypass three-in-three-out modular UPS. The product adopts digital control, modular design and N+X parallel redundancy technology. The capacity covers all power sections between 100kVA and 600kVA, which is convenient for users to configure flexibly and gradually invest. It can be 4 parallel to 2400kVA.

Scenarios

Large and medium centers, server rooms, Financial centers, government, enterprise IT rooms, medical education and other mission-critical applications

Features

Advanced Technology

- DSP control technology, excellent performance, high stability system
- Three phase Vienna and three-level technology with 97% efficiency
- Output power factor 1.0

High Reliability

- Centralized control redundancy, N+X parallel redundancy up to 99.999%
- Centralized bypass improves the power supply ability
- With EPO and REPO function

Strong Convenience

- Modular design, adjustable power module quantity
- Hot-swappable module, short maintenance time
- 10 inches color touch screen, providing abundant UPS status

Smart Design

- Charging mode in smooth switching by LCD setting
- Intelligent charging makes fast charging and extends battery life
- Multiple optional parts, such as SNMP, relay, dry contact card, etc

Green Concept

- 3U modular design saves machine room's space
- Parallel shared battery technology reduces battery investment
- Optional 30–50pcs batteries without N line leads flexible configuration

Technical Specifications

	CNM331 100-600KVA
Model	600kVA
Cabinet Capacity (VA/W)	100~600kW
Module Capacity (VA/W)	100k/100k
Max. Module Number	6
Main Input	
Rated Voltage	380/400/415Vac
Voltage Range	138~485Vac; 305~485Vac (no derated load), 138~305Vac (derated load)
Phase	3 Phase 4 Wire and Ground
Frequency Range	40-70Hz
Power Factor	≥0.99
Current THDi	≤3% (100% Linear load)
Bypass Input	
Rated Voltage	380/400/415Vac
Phase	3 Phase 4 Wire and Ground
Bypass Protection Range	±10%
Power Walking In	Yes
Bypass Back Irrigation	Yes
Generator Access	Yes
Output	
Voltage	380/400/415Vac±1%
Power Factor	1
Frequency (Utility Mode)	±1%/±2%/±4%/±5%/±10% of the rated frequecy (optional)
Frequency (Battery Mode)	(50/60±0.1%)Hz
Wave Form	Pure Sine Wave
Crest Factor	3:1
THDV	≤2% with linear load ≤3% with non linear load
Transfer Time (ms)	Utility to Bypass: 0ms: Utility to Battery: 0ms
Effieiency (%)	97%
Overload	load \leq 110%: transfer to bypass after 60 min; 110% < load \leq 125%: transfer to bypass after 10 min; 125% < load \leq 150%: transfer to bypass mode after 1 min.
Battery	
Modular Charge Current	Max 20A
Voltage	Optional Voltage: 360-600Vdc (30~50 pieces optional)
Environment	
Operating Temperature	0°C~40°C
Storage Temperature	-25°C ~ 55°C
Humidity	0~95% (no condensing)
Altitude	<1500m (over 1500m, derating use)
Noise (dB) (1m distance)	<70dB
Others	
Alarm	Overload, utility abnormal, UPS fault, battery low ,etc
Protection	short circuit, overload, over temperature, battery low, fan falut alarm, bypass back irrigation, lightning protection.
Communication Interface	CAN, RS485, FE, LBS, Parallel, Relay card, SNMP card(optional)
Cabinet Dimensions (W*D*H)	800x1000x2000
Module Dimensions (W*D*H)mn	
Cabinet Weight (Kg)	440
Module Weight (Kg)	50
Safety Conformance	CE,EN/IEC 62040-3,EN/IEC 62040-1-1
Safety Comornance	CL, LIN/ILC 02040-3, LIN/ILC 02040-1-1



CONSNANT

SHENZHEN CONSNANT TECHNOLOGY CO., LTD.

Building B6, Junfeng Industrial Park, Yonghe Road, Fuhai Sub-District, Bao'an District, Shenzhen City, 518103 P.R.China

- www.consnant.com
- **©** 0755-29772622

