

CNM Series High Frequency Online



Modular UPS 10kVA~600kVA

HEFEI COOLNET POWER CO.,LTD

Add:Building F1, Xingmengyuan Mansion, High-tech Zone, Hefei City, Anhui Province, China
Tel: +86-551-65568275 Fax:+86-551-65568275
Website: www.coolnetpower.com





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Power Solution Specialist

CNM Series Rack-mounted Modular UPS

Three Phase In Three Phase Out

10~120KVA

 <p>Superior overload capacity</p> <p>Superior overload capacity to make the power supply system more reliable.</p>	 <p>User-friendly design</p> <p>LCD liquid crystal display, which can display the working status and parameter information of UPS in real time, facilitating user management of UPS;</p>
 <p>Grid friendly</p> <p>Energy saving green power with high input power factor and low THDI.</p>	 <p>Energy saving</p> <p>Under normal use, the product will not cause harm to people and the environment.</p>



Product Description

CNM series rack-mount modular UPS uninterruptible power supply system is a highly reliable product designed to meet the higher requirements of power systems. The system adopts on-line double-conversion structure and three-in-three-out operation mode; the power system consists of multiple individual power modules connected in parallel and operates under the condition of no main synchronisation, which realises N+X parallel redundancy backup work and greatly improves the reliability of the system as a whole;

Main Feature

- Mounted in 19 inch rack, or stand alone
- 7 inch touch LCD, with IoT functions
- High reliability and environment adaptability, with protection of components level
- Extreme high power density, 20KW in 2U, friendly for space and maintenance
- Option of 30A charger module for long backup applications

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Model CNM	020/10	030/15	040/20	040/10	045/15	060/15	080/20	090/15	120/20
Rate Power	20KVA/20KW	30KVA/30KW	40KVA/40KW	40KVA/40KW	45KVA/45KW	60KVA/60KW	80KVA/80KW	90KVA/90KW	120KVA/120KW
Main input									
Input	3P5W(3P+N+PE)								
Rate Voltage	380/400/415VAC (L-L); 220/230/240VAC(L-N)								
Rate Freq.	50/60Hz								
Input PF	>0.99								
Current Distortion	THDi<3%(100% Linear load)								
Voltage Range	304-478VAC(L-L)full load; 304- 228VAC (L-L) power derate from 100% to 75%								
Freq. Range	40-70Hz								
Battery									
Rate voltage	±240VDC(adjustable for 32-44 sections)								
Charging Capacity	20%*Pout								
Charging Accuracy	±1%								
Bypass									
Rate Voltage	380/400/415VAC (L-L) ;220/230/240VAC(L-N)								
Voltage Range	Range: -40%- +25%, Settable, default -20% ~ +15%								
Overload	110%, long time operation; 110%<load<125%,5 mins 125%<load<150%,1min; >150%,1 second								
Inverter									
Rate Voltage	380/400/415VAC (L-L) ;220/230/240VAC(L-N)								
Rate Freq.	50/60Hz								
Output PF	1								
Voltage Accuracy	±1.0%								
Load Response	<5%(20%-80%-20% step load)								
Recovery Time	<20ms (0%- 100% -0% step load)								
Output THDu	<1%(linear load),<5%(non-linear load according to IEC 62040-3)								
Overload	110%,1 hour;125%,10 mins; 150%,1 min; >150%,200ms								
Frequency Accuracy	0.1%								
Synchronize Window	Settable, ±0.5Hz-±5Hz, default ±3Hz								
Slew Rate	Settable, 0.5Hz/S-3Hz/S, default 0.5Hz/S								
Phase Accuracy	120°±0.5°								
System									
Efficiency	Normal Mode≥96%;Battery Mode≥96%								
Display	LED + 7 inch touch LCD								
Certification- Safety	IEC62040-1,IEC60950-1								
Certification- EMS	IEC62040-2;IEC61000-4-2(ESD);IEC61000-4-3(RS);IEC61000-4-4(EFT); IEC61000-4-5(Surge)								
IP Degree	IP20								
Configuration	USB, RS232, RS485, Dry contact, Cold start								
Option	SNMP card, AS400 card, Parallel kit, LBS, Air filter, Bottom entry kit, Wheels kit								
Environment	0-40°C(operation);-25~70(storage);0-95% (Humidity,non-condensing)								
Noise(dB)(1 meter)	65dB @ 100% load, 62dB @ 45% load								
Dimension									
Cabinet(W*D*H)mm	482*700*396(9U, wheels not included)			482*700*662(15U, wheels not included)			482*700*840(19U, wheels not included)		
Module(W*D*H)mm	440*555*85(2U)								

CNM Series Rack-mounted Modular UPS

Three Phase In single Phase Out


25~180KVA

Zero Switch




The UPS will switch to battery mode when the mains power is normal Zero time, which can effectively ensure the safety and reliability of the instrument.

Active Input Power Factor Correction (PFC)



Digital control of the active power factor correction technology is used to achieve an input power factor of 0.99 or higher to avoid pollution of the grid environment and to save energy and reduce system costs.

Load power factor of



Adapts to the characteristics of most current carrying capacity of the machine.

DSP

DSP digital control technology

All power conversion links such as rectification, inverter, charging, and discharge are digitally controlled.



Main Feature

- Mounted in 19 inch rack, or stand alone
- 7 inch touch LCD, with IoT functions
- High reliability and environment adaptability, with protection of components level
- Extreme high power density, 30kW in 2U, friendly for space and maintenance.
- Option of 30A charger module for long backup applications

Applications


Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.




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Model CNM	100/25	120/30	150/25	180/30
Rate Power	100KVA/100KW	120VA/120KW	150VA/150KW	180KVA/180KW
Main input				
Input	3P5W(3P+N+PE)			
Rate Voltage	380/400/415VAC (L-L); 220/230/240VAC(L-N)			
Rate Freq.	50/60Hz			
Input PF	>0.99			
Current Distortion	THDi<3%(100% Linear load)			
Voltage Range	304-478VAC(L-L)full load; 304- 228VAC (L-L) power derate from 100% to 75%			
Freq. Range	40-70Hz			
Battery				
Rate voltage	±240VDC			
Charging Capacity	20%*Pout			
Charging Accuracy	±1%			
Bypass				
Rate Voltage	380/400/415VAC (L-L) ;220/230/240VAC(L-N)			
Voltage Range	Range: -40%- +25%, Settable, default -20% ~ +15%			
Overload	110%, long time operation; 110%<load<125%,5 mins 125%<load<150%,1min; >150%,1 second			
Inverter				
Rate Voltage	380/400/415VAC (L-L) ;220/230/240VAC(L-N)			
Rate Freq.	50/60Hz			
Output PF	1			
Voltage Accuracy	±1.0%			
Load Response	<5%(20%-80%-20% step load)			
Recovery Time	<20ms (0%- 100% -0% step load)			
Output THDu	<1%(linear load),<5%(non-linear load according to IEC 62040-3)			
Overload	110%,1 hour;125%,10 mins; 150%,1 min; >150%,200ms			
Frequency Accuracy	0.1%			
Synchronize Window	Settable, +0.5Hz- ± 5Hz, default +3Hz			
Slew Rate	Settable, 0.5Hz/S-3Hz/S, default 0.5Hz/S			
Crest Factor	3:1			
Phase Accuracy	120° ± 0.5°			
System				
Efficiency	Normal Mode≥96%;Battery Mode≥96%			
Display	LED + 7 inch touch LCD			
Certification- Safety	IEC62040-1,IEC60950-1			
Certification- EMS	IEC62040-2;IEC61000-4-2(ESD);IEC61000-4-3(RS);IEC61000-4-4(EFT); IEC61000-4-5(Surge)			
IP Degree	IP20			
Configuration	USB, RS232, RS485, Dry contact, Cold start			
Option	SNMP card, AS400 card, Parallel kit, LBS, Air filter, Bottom entry kit, Wheels kit			
Environment	0-40°C(operation);-25~70(storage);0-95% (Humidity,non-condensing)			
Noise(dB)(1 meter)	65dB @ 100% load, 62dB @ 45% load			
Dimension				
Cabinet(W*D*H)mm	482*816*796(18U,wheels not included)		482*816*1018(23U,wheels not included)	
Module(W*D*H)mm	440*678*85(2U)			


All-in-One Intelligent Power Distribution System for data center




Superior overload capacity
Superior overload capacity to make the power supply system more reliable.



User-friendly design
LCD liquid crystal display, which can display the working status and parameter information of UPS in real time, facilitating user management of UPS;



Grid friendly
Energy saving green power with high input power factor and low THDI.



Energy saving
Under normal use, the product will not cause harm to people and the environment.



Product Description

The All-in-one intelligent power distribution system of Coolnet Digital Energy Data Center is a new generation of highly integrated power supply and distribution system adapted to modular data centers based on the new intelligent modular UPS platform. It integrates UPS host, IT power distribution, air conditioning power distribution, lighting power distribution, Mains electricity ATS, UPS input power distribution and UPS output power distribution into one cabinet, and has the characteristics of simple and easy maintenance, high reliability and high efficiency, it can provide safe, stable and pure green power supply for data center load.

Main Feature

- Maximum support for 180kVA integrated UPS power supply and distribution
- Built in 30kVA/30kW module, with a height of only 2U
- The system capacity supports phased deployment, power module, bypass module can be quickly replaced, easy to maintain.
- UPS, UPS input and output cabinets, precision power distribution cabinets and 3 cabinets are integrated, saving about 68% of floor space and more than 55% of installation hours.
- System efficiency up to 96%, energy efficient
- Intelligent detection of distribution branch, full display of power supply link.

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Model CNM	150/25-AIO	180/30-AIO
Input		
Rated Voltage	380/400/415Vac,50/60Hz,3ph+N+PE	
Voltage Range	304-478VAC(L-L)full load; 304-228VAC (L-L) power derate from 100% to 75%	
Frequency Range	40Hz ~70Hz	
Power Factor(PF)	Full load > 0.99, half load > 0.98	
output		
Rated Voltage	380/400/415Vac,50/60Hz,3ph+N+PE	
Power Factor	1	
Maximum peak factor of load	3:1	
System Parameter		
System Efficiency	96%(Linear load)	
Module Average Flow Indicator	≤2%	
Wiring Method	Default top inlet and top outlet, support bottom alignment	
AC lightning protection	Lightning protection class C	
Configuration Parameters		
Rated capacity	25-150kVA Number of power modules7(6+1) . Single Module Capacity 25kVA/25kW	30-180kVA Number of power modules7(6+1), Single Module Capacity30kVA/30kW
input method	MCCB or ATS	MCCB or ATS
Mains supply of ups distribution	City Power: 400A+UPS:3*250A	City Power: 600A+UPS:3*400A
IT power distribution	32A* 24* 2	40A* 24* 2
Air conditioning distribution	63A*8	63A*8
Lighting Power Distribution	10A*3	10A*3
Work Environment		
Operation Temperature Range	0~40°C	
Storage Temperature	40~70°C (Battery not included)	
Relative Humidity	5~95% Non-condensing	
Altitudes	Start to refer to IEC62040-3 standard for frequency reduction above 1000m.	
IP Degree	IP20	
Noise(dB)(1 meter)	The noise level is measured at ambient temperature of 25 degrees Celsius, at atmospheric pressure, 1m in front of the equipment, at 1/2 the height. 50% load:<52dB; 100% load:<71dB	
Dimention		
W*D*H mm	600 * 1100/1200 * 2000	

CNM Series Intelligent Modular UPS

Three Phase In Three Phase Out

25~300kVA

Zero Switch

The UPS will switch to battery mode when the mains power is normal Zero time, which can effectively ensure the safety and reliability of the instrument.

Active Input Power Factor Correction (PFC)

Digital control of the active power factor correction technology is used to achieve an input power factor of 0.99 or higher to avoid pollution of the grid environment and to save energy and reduce system costs.

Real time monitoring and alarm

Detect important parameters in real time, and immediately give an alarm if any abnormality is found.

Can be used with a generator

The wide range of input voltages and frequencies isolates the bad power generated by the generator to provide a pure, stable power supply to the load.



Product Description

The CNM series modular UPS provides the most compact footprint of less than 2m² with maximum capacity of 900kVA. With best reliability and high performance, it has been leading the domestic market for years. CNM series is considered to be the best power protection solution for large data centers, as well as for sensitive electronics.

Main Feature

- Fully digital control, flexible and robust.
- 10 inch touch LCD, with IoT functions
- High reliability and environment adaptability, with protection of components level
- Extreme high power density, 30kW in 2U, friendly for space and maintenance.
- Option of 30A charger module for long backup applications




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Model CNM	250/25	300/30
Rate Power	250KVA/250KW	300KVA/300KW
Main input		
Input	3P5W(3P+N+PE)	
Rate Voltage	380/400/415VAC (L-L); 220/230/240VAC(L-N)	
Rate Freq.	50/60Hz	
Input PF	>0.99	
Current Distortion	THDi<3%(100% Linear load)	
Voltage Range	304 - 4 78VAC(L-L)full load; 304 - 228VAC (L-L) power derate from 100% to 75%	
Freq. Range	40-70Hz	
Battery		
Rate voltage	±240VDC	
Charging Capacity	20%*Pout	
Charging Accuracy	±1%	
Bypass		
Rate Voltage	380/400/415VAC (L-L); 220/230/240VAC(L-N)	
Voltage Range	Range: -40%- +25%, Settable, default -20% ~ +15%	
Overload	110%, long time operation; 110%<load<125%,5 mins 125%<load<150%,1min; > 150%,1 second	
Inverter		
Rate Voltage	380/400/415VAC (L-L); 220/230/240VAC(L-N)	
Rate Freq.	50/60Hz	
Output PF	1	
Voltage Accuracy	±1.0%	
Load Response	<5%(20%-80%-20% step load)	
Recovery Time	<20ms (0%- 100% -0% step load)	
Output THDu	<1%(linear load),<5%(non-linear load according to IEC 62040-3)	
Overload	110%,1 hour;125%,10 mins; 150%,1 min; >150%,200ms	
Frequency Accuracy	0.1%	
Synchronize Window	Settable, +0.5Hz- ± 5Hz, default +3Hz	
Slew Rate	Settable, 0.5Hz/S-3Hz/S, default 0.5Hz/S	
Crest Factor	3:1	
Phase Accuracy	120° ± 0.5°	
System		
Efficiency	Normal Mode≥96%;Battery Mode≥96%	
Display	LED + 10 inch touch LCD	
Certification- Safety	IEC62040-1,IEC60950-1	
Certification- EMS	IEC62040-2;IEC61000-4-2(ESD);IEC61000-4-3(RS);IEC61000-4-4(EFT); IEC61000-4-5(Surge)	
IP Degree	IP20	
Configuration	USB, RS232, RS485, Dry contact, Cold start,Air filter	
Option	SNMP card, AS400 card, Parallel kit, SPD,LBS	
Environment	0-40°C(operation);-25~70(storage);0-95% (Humidity,non-condensing)	
Noise(dB)(1 meter)	72dB @ 100% load, 69dB @ 45% load	
Dimension		
Cabinet(W*D*H)mm	600*1000*2000	
Module(W*D*H)mm	440*678*85(2U)	

CNM Series Intelligent Modular UPS

Three Phase In Three Phase Out

50~600KVA

 <p>Superior overload capacity</p> <p>Superior overload capacity to make the power supply system more reliable.</p>	 <p>User-friendly design</p> <p>LCD liquid crystal display, which can display the working status and parameter information of UPS in real time, facilitating user management of UPS;</p>
 <p>Load power factor of 0.9</p> <p>Adapts to the characteristics of most current electrical equipment and increases the load carrying capacity of the machine.</p>	 <p>Grid friendly</p> <p>Energy saving green power with high input power factor and low THDI.</p>



Main Feature

- Fully digital control, flexible and robust.
- 7&10 inch touch LCD,with IoT functions
- High reliability and environment adaptability, with protection of components level
- Intelligent system self-diagnosis, rich fault recording, large capacity of history recordstorage space
- Maximum system capacity up to 1.8MVA, the best solution for mega data center



Applications

Government, Finance,IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

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Model CNM	200/50	240/60	300/50	300/60	400/50	480/60	500/50	600/50	600/60
Rate Power	200KVA	240KVA	300KVA	300KVA	400KVA	480KVA	500KVA	600KVA	600KVA
Main input									
Input	3P5W(3P+N+PE)								
Rate Voltage	380/400/415VAC (L-L); 220/230/240VAC(L-N)								
Rate Freq.	50/60Hz								
Input PF	>0.99								
Current Distortion	THDi<3%(100% Linear load)								
Voltage Range	304 - 478VAC(L-L)full load; 304 - 228VAC (L-L) power derate from 100% to 75%								
Freq. Range	40-70Hz								
Battery									
Rate voltage	±240VDC								
Charging Capacity	20%*Pout								
Charging Accuracy	±1%								
Bypass									
Rate Voltage	380/400/415VAC (L-L); 220/230/240VAC(L-N)								
Voltage Range	Range: -40%- +25%, Settable, default -20% ~ +15%								
Overload	125%, long time operation 125%<load <130%;10mins 130%<load <150%,1min >150%,300ms		110%, long time operation; 110%<load<125%,5 mins 125%<load<150%,1min; > 150%,1 second						
Inverter									
Rate Voltage	380/400/415VAC (L-L); 220/230/240VAC(L-N)								
Rate Freq.	50/60Hz								
Output PF	1								
Voltage Accuracy	±1.0%								
Load Response	<5%(20%-80%-20% step load)								
Recovery Time	<20ms (0%- 100% -0% step load)								
Output THDu	<1%(linear load),<5%(non-linear load according to IEC 62040-3)								
Overload	110%,1 hour;125%,10 mins; 150%,1 min; >150%,200ms								
Frequency Accuracy	0.1%								
Synchronize Window	Settable, +0.5Hz- ± 5Hz, default +3Hz								
Slew Rate	Settable, 0.5Hz/S-3Hz/S, default 0.5Hz/S								
Crest Factor	3:1								
Phase Accuracy	120° ± 0.5°								
System									
Efficiency	Normal Mode≥93%;Battery Mode≥93%								
Display	LED + 7 inch touch LCD	LED + 10 inch touch LCD							
Certification- Safety	IEC62040-1,IEC60950-1								
Certification- EMS	IEC62040-2;IEC61000-4-2(ESD);IEC61000-4-3(RS);IEC61000-4-4(EFT); IEC61000-4-5(Surge)								
IP Degree	IP20								
Configuration	USB, RS232, RS485, Dry contact, Cold start,Air filter								
Option	SNMP card, AS400 card, Parallel kit, SPD,LBS								
Environment	0-40°C(operation);-25~70(storage);0-95% (Humidity,non-condensing)								
Noise(dB)(1 meter)	72dB @ 100% load, 69dB @ 45% load								
Dimension									
Cabinet(W*D*H)mm	600*1000*1600	600*1000*2000	1200*1100*2000	1200*1100*2000					
Module(W*D*H)mm	442*659*174								

CNM Series Modular UPS

Three Phase In single Phase Out

12~72KVA(208V)

Zero Switch

The UPS will switch to battery mode when the mains power is normal Zero time, which can effectively ensure the safety and reliability of the instrument.

User-friendly design

LCD liquid crystal display, which can display the working status and parameter information of UPS in real time, facilitating user management of UPS;

DSP

DSP digital control technology

All power conversion links such as rectification, inverter, charging, and discharge are digitally controlled.

Can be used with a generator

The wide range of input voltages and frequencies isolates the bad power generated by the generator to provide a pure, stable power supply to the load.



Main Feature

- Mounted in 19 inch rack, or stand alone
- 7 inch touch LCD, with IoT functions
- High reliability and environment adaptability, with protection of components level
- Extreme high power density, 20KW in 2U, friendly for space and maintenance
- Option of 30A charger module for long backup applications

Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.



HEFEI COOLNET POWER CO.,LTD

Model CNM	024/12-L	048/12-L	072/12-L
Rate Power	24KVA/24KW	48KVA/48KW	72KVA/72KW
Main input			
Input	3P5W(3P+N+PE)		
Rate Voltage	200/208/220VAC(L-L)		
Rate Freq.	50/60Hz		
Input PF	>0.99		
Current Distortion	THDi<3%(100% Linear load)		
Voltage Range	166-261VAC(L-L)full load; 125- 166VAC (L-L) power derate from 100% to 75%		
Freq. Range	40-70Hz		
Battery			
Rate voltage	±120VDC		
Charging Capacity	20%*Pout		
Charging Accuracy	±1.0%		
Inverter			
Rate Voltage	200/208/220VAC(L-L)		
Rate Freq.	50/60Hz		
Output PF	1		
Voltage Accuracy	±1.0%		
Load Response	<5%(20%-80%-20% step load)		
Recovery Time	<20ms (0%- 100% -0% step load)		
Output THDu	<1%(linear load),<5%(non-linear load according to IEC 62040-3)		
Overload	110%,1 hour;125%,10 mins; 150%,1 min; >150%,200ms		
Frequency Accuracy	0.1%		
Synchronize Window	Settable, +0.5Hz- ± 5Hz, default +3Hz		
Slew Rate	Settable, 0.5Hz/S-3Hz/S, default 0.5Hz/S		
Phase Accuracy	120° ± 0.5°		
System			
Efficiency	Normal Mode≥96%;Battery Mode>96%		
Display	LED + 7 inch touch LCD		
Certification- Safety	IEC62040-1,IEC60950-1		
Certification- EMS	IEC62040-2;IEC61000-4-2(ESD);IEC61000-4-3(RS);IEC61000-4-4(EFT); IEC61000-4-5(Surge)		
IP Degree	IP20		
Configuration	USB, RS232, RS485, Dry contact, Cold start		
Option	SNMP card, AS400 card, Parallel kit, LBS, Air filter, Bottom entry kit, Wheels kit		
Environment	0-40°C(operation);-25~70(storage);0-95% (Humidity,non-condensing)		
Noise(dB)(1 meter)	65dB @ 100% load, 62dB @ 45% load		
Dimension			
Cabinet(W*D*H)mm	482*700*396(9U, wheels not included)	482*700*662(15U, wheels not included)	482*700*840(19U, wheels not included)
Module(W*D*H)mm	440*555*85(2U)		

CNM Series Modular UPS

Three Phase In single Phase Out

18~108KVA(208V)

Superior overload capacity

Superior overload capacity to make the power supply system more reliable.

User-friendly design

LCD liquid crystal display, which can display the working status and parameter information of UPS in real time, facilitating user management of UPS;

Grid friendly

Energy saving green power with high input power factor and low THDI.

Energy saving

Under normal use, the product will not cause harm to people and the environment.



Main Feature

- Mounted in 19 inch rack, or stand alone
- 7 inch touch LCD, with IoT functions
- High reliability and environment adaptability, with protection of components level
- Extreme high power density, 20KW in 2U, friendly for space and maintenance
- Option of 30A charger module for long backup applications

Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.



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Model CNM	72/18-L	108/18-L
Rate Power	72KVA/72KW	108KVA/108KW
Main input		
Input	3P5W(3P+N+PE)	
Rate Voltage	200/208/220VAC(L-L)	
Rate Freq.	50/60Hz	
Input PF	>0.99	
Current Distortion	THDi<3%(100% Linear load)	
Voltage Range	166-261VAC(L-L)full load; 125- 166VAC (L-L) power derate from 100% to 75%	
Freq. Range	40-70Hz	
Battery		
Rate voltage	±120VDC	
Charging Capacity	20%*Pout	
Charging Accuracy	±1%	
Bypass		
Rate Voltage	200/208/220VAC(L-L)	
Voltage Range	Range: -40%- +25%, Settable, default -20% ~ +15%	
Overload	10%, long time operation ; 110%< load<125%, 5 mins; 125%<load<150%, 1 min: >150%, 1 second	
Inverter		
Rate Voltage	200/208/220VAC(L-L)	
Rate Freq.	Range: -40%- +25%, Settable, default -20% - +15%,	
Output PF	1	
Voltage Accuracy	±1.0%	
Load Response	<5%(20%-80%-20% step load)	
Recovery Time	<20ms (0%- 100%-0% step load)	
Output THDu	<1%(linear load),<5%(non-linear load according to IEC 62040-3)	
Overload	110%,1 hour;125%,10 mins; 150%,1 min; >150%,200ms	
Frequency Accuracy	0.1%	
Synchronize Window	Settable, +0.5Hz- ± 5Hz, default +3Hz	
Slew Rate	Settable, 0.5Hz/S-3Hz/S, default 0.5Hz/S	
Phase Accuracy	120° ± 0.5°	
System		
Efficiency	Normal Mode≥96%;Battery Mode≥96%	
Display	LED + 7 inch touch LCD	
Certification- Safety	IEC62040-1,IEC60950-1	
Certification- EMS	IEC62040-2;IEC61000-4-2(ESD);IEC61000-4-3(RS);IEC61000-4-4(EFT); IEC61000-4-5(Surge)	
IP Degree	IP20	
Configuration	USB, RS232, RS485, Dry contact, Cold start	
Option	SNMP card, AS400 card, Parallel kit, LBS, Air filter, Bottom entry kit, Wheels kit	
Environment	0-40°C(operation);-25~70(storage);0-95% (Humidity,non-condensing)	
Noise(dB)(1 meter)	65dB @ 100% load, 62dB @ 45% load	
Dimension		
Cabinet(W*D*H)mm	482*816*796(18U,wheels not included)	482*816*1018(23U,wheels not included)
Module(W*D*H)mm	440*678*85(2U)	

CNM Series Modular UPS

Three Phase In Three Phase Out

36~360KVA(208V)

Superior overload capacity
Superior overload capacity to make the power supply system more reliable.

User-friendly design
LCD liquid crystal display, which can display the working status and parameter information of UPS in real time, facilitating user management of UPS;

Load power factor of 0.9
Adapts to the characteristics of most current electrical equipment and increases the load carrying capacity of the machine.

Can be used with a generator
The wide range of input voltages and frequencies isolates the bad power generated by the generator to provide a pure, stable power supply to the load.



Main Feature

- Fully digital control, flexible and robust.
- 7&10 inch touch LCD,with IoT functions
- High reliability and environment adaptability, with protection of components level
- Intelligent system self-diagnosis, rich fault recording, large capacity of history recordstorage space.
- Support 200 / 208 / 220V, 50 / 60Hz power grid system, to provide the ideal power supply quality and load protection.



Applications

Government, Finance,IT, Education, Transportation, Broadcasting, Medical, Energy, etc.





HEFEI COOLNET POWER CO.,LTD

Model CNM	144/36-L	216/36-L	360/36-L
Rate Power	144KVA/144KW	216KVA/216KW	360KVA/360KW
Main input			
Input	3P5W(3P+N+PE)		
Rate Voltage	200/208/220VAC(L-L)		
Rate Freq.	50/60Hz		
Input PF	>0.99		
Current Distortion	THDi<3%(100% Linear load)		
Voltage Range	166-261VAC(L-L)full load; 125- 166VAC (L-L) power derate from 100% to 75%		
Freq. Range	40-70Hz		
Battery			
Rate voltage	±120VDC		
Charging Capacity	20%*Pout		
Charging Accuracy	±1%		
Bypass			
Rate Voltage	200/208/220VAC(L-L)		
Voltage Range	Range: -40%- +25%, Settable, default -20% ~ +15%		
Overload	125%, long time operation 125%<load <130%,10mins 130%<load <150%,1min >150%,300ms	110%, long time operation; 110%<load<125%,5 mins 125%<load<150%,1min; >150%,1 second	
Inverter			
Rate Voltage	200/208/220VAC(L-L)		
Rate Freq.	50/60Hz		
Output PF	1		
Voltage Accuracy	±1.0%		
Load Response	<5%(20%-80%-20% step load)		
Recovery Time	<20ms (0%- 100% -0% step load)		
Output THDu	<1%(linear load),<5%(non-linear load according to IEC 62040-3)		
Overload	110%,1 hour;125%,10 mins; 150%,1 min; >150%,200ms		
Frequency Accuracy	0.1%		
Synchronize Window	Settable, +0.5Hz- ± 5Hz, default +3Hz		
Slew Rate	Settable, 0.5Hz/S-3Hz/S, default 0.5Hz/S		
Crest Factor	3:1		
Phase Accuracy	120° ± 0.5°		
System			
Efficiency	Normal Mode≥96%;Battery Mode>96%		
Display	LED + 7 inch touch LCD	LED + 10 inch touch LCD	
Certification- Safety	IEC62040-1,IEC60950-1		
Certification- EMS	IEC62040-2;IEC61000-4-2(ESD);IEC61000-4-3(RS);IEC61000-4-4(EFT); IEC61000-4-5(Surge)		
IP Degree	IP20		
Configuration	USB, RS232, RS485, Dry contact, Cold start,Air filter		
Option	SNMP card, AS400 card, Parallel kit, SPD,LBS		
Environment	0-40°C(operation);-25~70(storage);0-95% (Humidity,non-condensing)		
Noise(dB)(1 meter)	72dB @ 100% load, 69dB @ 45% load		
Dimension			
Cabinet(W*D*H)mm	600*1000*1600	600*1000*2000	1200*1100*2000
Module(W*D*H)mm	442*659*174		

CNM Series Modular UPS

Three Phase In single Phase Out

60~720KVA(480V)

 <p>Superior overload capacity</p> <p>Superior overload capacity to make the power supply system more reliable.</p>	 <p>User-friendly design</p> <p>LCD liquid crystal display, which can display the working status and parameter information of UPS in real time, facilitating user management of UPS;</p>
 <p>Energy saving</p> <p>Under normal use, the product will not cause harm to people and the environment.</p>	 <p>Double conversion pure online type</p> <p>The intelligent slots offer a wealth of expandable functions with the option of IS-B cards, AS400 cards, C-monitoring cards, SNMP cards, RS485 cards, EI environmental monitoring cards.</p>



Main Feature

- Fully digital control, flexible and robust.
- 7&10 inch touch LCD,with IoT functions
- High reliability and environment adaptability, with protection of components level
- Intelligent system self-diagnosis, rich fault recording, large capacity of history recordstorage space
- Maximum system capacity up to 1.8MVA, the best solution for mega data center



Applications

Government, Finance,IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

HEFEI COOLNET POWER CO.,LTD

Model CNM	240/60-H	360/60-H	600/60-H	720/60-H
Rate Power	240KVA/240KW	360KVA/360KW	600KVA/600KW	720KVA/720KW
Main input				
Input	3P5W(3P+N+PE)			
Rate Voltage	480VAC(L-L)			
Rate Freq.	50/60Hz			
Input PF	>0.99			
Current Distortion	THDi<3%(100% Linear load)			
Voltage Range	384-528VAC(L-L)full load; 288- 384VAC (L-L) power derate from 100% to 75%			
Freq. Range	40-70Hz			
Battery				
Rate voltage	±240VDC			
Charging Capacity	20%*Pout			
Charging Accuracy	±1%			
Bypass				
Rate Voltage	480VAC(L-L)			
Voltage Range	Range: -40%- +25%, Settable, default -20% ~ +15%			
Overload	125%, long time operation 125%<load <130%,10mins 130%<load <150%,1min >150%,300ms	110%, long time operation; 110%<load<125%,5 mins 125%<load<150%,1min; > 150%,1 second		
Inverter				
Rate Voltage	480VAC(L-L)			
Rate Freq.	50/60Hz			
Output PF	1			
Voltage Accuracy	±1.0%			
Load Response	<5%(20%-80%-20% step load)			
Recovery Time	<20ms (0%- 100% -0% step load)			
Output THDu	<1%(linear load),<5%(non-linear load according to IEC 62040-3)			
Overload	110%,1 hour;125%,10 mins; 150%,1 min; >150%,200ms			
Frequency Accuracy	0.1%			
Synchronize Window	Settable, +0.5Hz- ± 5Hz, default +3Hz			
Slew Rate	Settable, 0.5Hz/S-3Hz/S, default 0.5Hz/S			
Crest Factor	3:1			
Phase Accuracy	120° ± 0.5°			
System				
Efficiency	Normal Mode≥93%;Battery Mode≥93%			
Display	LED + 7 inch touch LCD	LED + 10 inch touch LCD		
Certification- Safety	IEC62040-1,IEC60950-1			
Certification- EMS	IEC62040-2;IEC61000-4-2(ESD);IEC61000-4-3(RS);IEC61000-4-4(EFT); IEC61000-4-5(Surge)			
IP Degree	IP20			
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Environment	0-40°C(operation);-25~70(storage);0-95% (Humidity,non-condensing)			
Noise(dB)(1 meter)	72dB @ 100% load, 69dB @ 45% load			
Dimension				
Cabinet(W*D*H)mm	600*1000*1600	600*1000*2000	1200*1100*2000	
Module(W*D*H)mm	442*659*174			