

CNT Series High Frequency Online



Tower UPS 300kVA~2000kVA

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Power Solution Specialist

CNT Series High Frequency online UPS
Three Phase In Three Phase Out
300~600KVA

Extremely wide input voltage and frequency range
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.

Wide range of options
Dust-proof grid, SNMP network communication card, lightning protection module, battery temperature compensator, cell phone SMS alarm.

Intelligent system self-diagnosis
Extensive fault logging, large history storage space.suit 50Hz/60Hz.

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



Main Feature

- Support 380/4001415V,50/60Hz power grid system,to provide the ideal power supply quality and load protection
- High performance and efficiency,input PF>0.99,THDi<3%, efficiency>96%
- Full DSP control, flexible and robust digital control for rectifier, inverter and battery management.
- Wide range of voltage and frequency.adapt to different grid and generator input.
- Friendly human-machine interface, equipped with a large LCD touch screen and control keyboard, rich in information.
- All fans in the system are designed with a few spare parts, which greatly improves the reliability of the system.
- Intelligent battery management programme, support for the configuration of large-capacity charging module;
- Top/bottom cable entry, flexible for different field installation.



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Model CNT	33300L	33400L	33500L	33600L
Rate Power	300KVA	400KVA	500KVA	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	50/60Hz			
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 +10inch 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°C~70°C(storage);0-95% (Humidity,non-condensing)			
Noise(dB)(1 meter)	72dB @ 100% load, 69dB @ 45% load			
Dimention				
W*D*H(mm)	600*1000*2000			1200*1100*2000

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Three Phase In Three Phase Out

1000~2000KVA

Modular design

When the power unit fails, the unit can be removed and used again at a reduced rate.

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;

Inward power factor up to 0.99

The incoming harmonic current is less than 3% and the efficiency of the machine is 95%, making it environmentally friendly and energy efficient.

3P/3P Online double conversion

Supports 380/400/415V, 50/60Hz grid system, providing ideal power quality and load protection.



Main Feature

- Full DSP control, flexible and robust digital control for rectifier, inverter and battery management.
- System level + veneer level + device level comprehensive protection, extreme reliability, stronger environmental adaptability
- Extra-large 10-inch LCD touch screen, colourful graphic display, easy to operate, friendly man-machine interface
- Intelligent system self-diagnostic programme, rich fault records, large-capacity historical records storage space
- Maximum capacity of 2MW, the best choice for uninterruptible power supply in ultra-large data centres.



Applications

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

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Model CNT	331000L	331500L	332000L
Rate Power	1000KVA/1000kW	1500KVA/1500kW	2000KVA/2000kW
Main input			
Input	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(32-44 sections settable)		
Charging Capacity	20%*Pout		
Charging Accuracy	±1%		
Bypass			
Rate Voltage	380/400/415VAC(L-L);220/230/240VAC(L-N)		
Voltage Range	Adjustable voltage, default -20%~+15%; upper limit: +10%, +15%, +20%, +25%; lower limit -10%, —15%, -20%, -30%, -40%		
Overload	110%, long time operation; 101%<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)		
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≥97%;Battery Mode≥97%		
Display	LED +10inch 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°C~70°C(storage);0-95% (Humidity,non-condensing)		
Noise(dB)(1 meter)	72dB @ 100% load, 69dB @ 45% load		
Dimention			
W*D*H(mm)	2000*1100*2000	2800*1100*2000	3400*1100*2000