

## CN-UT Series High Frequency Online



**Tower UPS**

1kVA~200kVA

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**Power Solution Specialist**

# CN-UT Series High Frequency online UPS Single Phase In Single Phase Out 1~10KVA

**DSP**  
DSP digital control technology  
Ensure high performance, stable product and reliable quality of UPS

**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.

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

**Wide input voltage and frequency range**  
The wide input voltage and frequency range enables stable operation in mains power mode even in harsh electrical environments, reducing the number of battery discharges and increasing battery life.

**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.

**Frequency Adaptive Systems**  
To meet the requirements of different electrical systems, it can be set Fixed or automatic recognition to suit 50Hz/60Hz.



## Product Description

CN-UT series is based on on-line double conversion technology, which is an ideal power supply solution for small-capacity scenarios, which can completely eliminate all kinds of power grid problems. Support tower installation, standard machine built-in battery.

## Main Feature


- True double-conversion
- Microprocessor control optimizes reliability
- Input Power Factor Correction
- Output Power Factor 0.8
- Wide input voltage (110V - 300 V)
- Efficient frequency conversion mode
- ECO mode for energy saving (Only available for 1-3KVA)
- Generator compatible
- The exquisite SNMP card can be perfectly monitored alone or together with USB and RS232
- Through the display simple operation control, and comprehensive display monitoring UPS status

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Model CN-UT	1101(L)	1102(L)	1103(L)	1106(L)	1110(L)					
Capacity	1KVA / 0.8 KW	2KVA / 1.6KW	3KVA / 2.4KW	6KVA/4.8KW	10KVA / 8KW					
<b>Input</b>										
Connection Mode	Single phase with ground									
Nominal Voltage	200/208/220/230/240VAC			208/220/230/240VAC						
Voltage Range	110-300VAC at 50% load; 160-280 VAC at 100% load			110-300VAC at 50% load; 176-300 VAC at 100% load						
Frequency range	40 Hz ~ 70 Hz			46~54 Hz / 56~64 Hz						
Power factor	>0.8@100% load									
<b>Output</b>										
Output Voltage	200/208/220/230/240VAC			208/220/230/240VAC						
Voltage range (Battery mode)	±1 %									
Frequency	SYN Correction Range	47~53 Hz / 57~63 Hz			46~54 Hz / 56~64 Hz					
	Battery Model	50 Hz ± 0.25 Hz / 60Hz ± 0.3 Hz			50 Hz /60Hz ± 0.1 Hz					
Current Crest Ratio	3:01									
Harmonic Distortion	≤ 3 % THD (Linear Load) ≤ 6 % THD (Non-linear Load)			≤ 3 % THD (Linear Load) ≤ 5 % THD (Non-linear Load)						
Transfer Time	City Electricity/Battery	Zero								
	Inverter/Bypass	4 ms (Typical)			—					
Waveform (Batt. Mode)	Pure Sinewave									
<b>Battery Type</b>										
Battery Internal (Standard Unit)	Battery Type	12V/9AH/7AH								
	Quantity	2	3	4	6	16	20	16	20	
	Charging Current	1.0A (max.)				Preset: 1.0 A ± 10%, max.: 2.0A ± 10%				
	Charging Voltage	27.4VDC ±1%	41.0VDC ±1%	54.7 VDC± 1%	82.1 VDC± 1%	218.4 VDC ±1%	273 VDC ±1%	218.4 VDC ±1%	273 VDC ±1%	
Battery External (Long Back up Unit)	Battery Type	According to the actual application with a number of battery boxes								
	Quantity	2	3	4	6	6	8	16 ~ 20 (Adjustable)		
	Charging Current	1A/2A/4A/6A (Adjustable)				1A/2A/4A/6A (Adjustable, 6A is only available for 16pcs batteries )				
	Charging Voltage	27.4VDC ±1%	41.0VDC ±1%	54.7VDC ±1%	82.1VDC ±1%	82.1VDC ±1%	109.4VDC ±1%	218.4VDC ±1%	273VDC ±1%	218.4VDC ±1%
<b>Efficiency</b>										
City Electricity Mode	88%	89%	90%	92%	93%					
Battery Mode	83%	87%	88%	90%	91%					
<b>Display Interface</b>										
LCD / LED	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators									
<b>Alarm</b>										
Battery Mode	Sounding every 4 seconds									
Low Battery	Sounding every second									
Overload	Sounding every second									
Fault	Continuously sounding									
<b>Control Management</b>										
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC									
Optional SNMP	Support SNMP Internet Management									
<b>Environment</b>										
Relative Humidity	20-90 % RH @ 0- 40°C (Non-condensing)			0-95 % RH @ 0- 40°C (Non-condensing)						
Noise Level	<50dB @ 1 M			<55dB @ 1 M		<58dB @ 1 M				
<b>Physical</b>										
Standard Unit	Dimension: W*D*H(mm)	145*282*220	145*397*220	145*397*220	190*421*318	190*369*688	190*442*688			
	Net Weight(kg)	8.7	11.5	15.7	24.6	61	74	66	76	
Long Backup Unit	Dimension: W*D*H(mm)	145*282*220		145*397*220		190*369*318		190*442*318		
	Net Weight(kg)	3.9	4.1	6.9	7.4	12		16		




# CN-UT Series High Frequency online UPS Single Phase In Single Phase Out 1~10KVA




**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 powerfactor and low THDI.



**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.

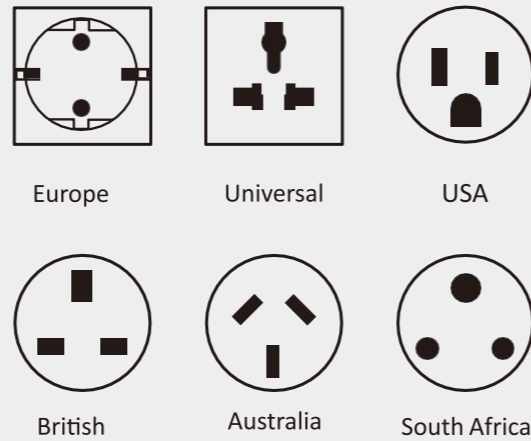


## Main Feature

- True double-conversion
- Microprocessor control optimizes reliability
- Input power factor correction
- Output power factor 0.9
- Wide input voltage
- Converter mode available
- ECO mode for energy saving only available for 1-3KVA models
- Adjustable battery numbers
- Generator compatible
- Smart SNMP works well with either USB or RS-232 together
- Comprehensive display allows easy monitoring and access of UPS status

## Optional sockets


Can be customized on demand




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Model CN-UT	1101(L)	1102(L)	1103(L)	1106(L)	1110(L)					
Capacity	1KVA / 0.9KW	2KVA / 1.8KW	3KVA / 2.7KW	6KVA / 5.4W	10KVA / 9KW					
<b>Input</b>										
Connection Mode	Single phase with ground									
Nominal Voltage	110/115/120/127VAC 208/220/230/240VAC			208/220/230/240VAC						
Voltage Range	60-145 VAC / 120-300 VAC (Based on load at 50%) 90-145 VAC / 180-300 VAC (Based on load at 100%)			110-300 VAC (Based on load at 50%) 176-300 VAC (Based on load at 100%)						
Frequency Range	40 Hz ~ 70 Hz			46~54 Hz / 56~64 Hz						
Power Factor	>0.9@100% load									
<b>Output</b>										
Output Voltage	110/115/120/127VAC 208/220/230/240VAC			208/220/230/240VAC						
Voltage Regulation	±1 %									
Frequency	SYN Correction Range	47~ 53 Hz / 57 ~ 63 Hz			46~54 Hz / 56~64 Hz					
	Battery Model	50 Hz /60Hz ± 0.5%			50 Hz /60Hz ± 0.1 Hz					
Current Crest Ratio	3:01									
Harmonic Distortion	≤ 3 % THD (Linear Load) ≤ 6 % THD (Non-linear Load)			≤ 3 % THD (Linear Load) ≤ 5 % THD (Non-linear Load)						
Transfer Time	City Electricity/Battery	Zero								
	Inverter/Bypass	4 ms (Typical)			Zero					
Waveform (Batt. Mode)	Pure Sinewave									
<b>Battery Type</b>										
Battery Internal (Standard Unit)	Battery Type	12 V / 9 Ah		12 V / 9 Ah		12 V / 9 Ah		12 V / 9 Ah		
	Quantity	2	3	4	6	6	16	20	16	20
	Typical Recharge Time	4 hours recover to 90% capacity				9 hours recover to 90% capacity				
	Charging Current	1 A				1 A / 2 A				
	Charging Voltage	27.4VDC ±1%	41.0VDC ±1%	54.7VDC ±1%	82.1VDC ±1%	82.1VDC ±1%	218.4 VDC±1%	273 VDC ±1%	218.4VDC ±1%	273 VDC ±1%
Battery External (Long Back up Unit)	Battery Type	Depending on applications								
	Quantity	3		6		6		16 ~ 20 (Adjustable)		
	Charging Current	1.0A/2.0A/4.0A/6.0 A				1A/2A/4A/6A (Adjustable, 6A is only available for 16pcs batteries)				
Charging Voltage	41.0 VDC±1%		82.1 VDC±1%		82.1 VDC±1%		273 VDC±1% (Based on 20pcs batteries)			
<b>Efficiency</b>										
City Electricity Mode	88%		89%		90%		92%		93%	
Battery Mode	83%		87%		88%		90%		91%	
<b>Display Interface</b>										
LCD	Load level, Battery level, City Electricity Mode, Battery mode, Bypass mode, and Fault indicators									
<b>Alarm</b>										
Battery Mode	Sounding every 4 seconds									
Low Battery	Sounding every second									
Overload	Sounding twice every second									
Fault	Continuously sounding									
<b>Control Management</b>										
Smart RS-232 / USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC									
Optional SNMP	Power management from SNMP manager and web browser									
<b>Environment</b>										
Relative Humidity	20-90 % RH @ 0- 40°C (Non-condensing)					0-95% RH @ 0-50°C (Non- condensing)		0-95% RH @ 0-40°C (Non- condensing)		
Noise Level	<50dB @ 1 M					<55dB @ 1 M		<58dB @ 1 M		
<b>Physical</b>										
Standard Unit	Dimension: W*D*H(mm)	145*282*220	145*397*220	145*397*220	190*421*318	190*421*318	190*369*688	190*442*688		
	Net Weight (kg)	9.8	11.4	17	26.2	27.6	61	74	66	76
Long Backup Unit	Dimension: W*D*H(mm)	145*282*220		145*397*220			190*369*318		190*442*318	
	Net Weight (kg)	4.4		6.8			7.6		12	


# CN-UT Series High Frequency online UPS Single Phase In Single Phase Out 1~3KVA




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



**Frequency Adaptive Systems**  
To meet the requirements of different electrical systems, it can be set Fixed or automatic recognition to suit 50Hz/60Hz.



**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.



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



## Main Feature

- High efficiency: 92% for 1kva, 93% for 2kva, 94% for 3kva
- True double-conversion
- Microprocessor control optimizes reliability
- Input power factor correction 0.99
- Output power factor 1.0
- 50/60 Hz frequency converter mode
- Wide input voltage (110 V – 300 V)
- ECO mode for energy saving
- Smart battery charger design to optimize battery performance
- Comprehensive display allows easy monitoring and access of UPS status
- SNMP/USB/RS-232 multiple communications
- Generator compatible

## Applications

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

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Model CN-UT	1101	1102	1103
Phase	Single phase with ground		
Capacity	1KVA/1KW	2KVA/2KW	3KVA/3KW
<b>Input</b>			
Rate Voltage	200*/208*/220/230/240 VAC		
Voltage Range	110-300 VAC (Based on load at 50%) ; 160-300 VAC (Based on load at 100%)		
Frequency Range	40-70Hz		
Power Factor	≥ 0.99 @ nominal voltage (100% load)		
Harmonic Distortion (THDi)	≤ 5% @ nominal voltage (100% load)		
<b>Output</b>			
Rated voltage	200*/208*/220/230/240 VAC		
Voltage range (Battery Mode)	± 1%		
Frequency	SYN Correction Range	47 ~ 53 Hz or 57 ~ 63 Hz	
	Battery Model	50 Hz ± 0.1 Hz (60Hz ± 0.1 Hz)	
Current Crest Ratio	3:1		
Harmonic Distortion	≤ 2 % THD (Linear Load) ; ≤ 5 % THD (Non-linear Load)		
Transfer Time	AC to DC	Zero	
	Inverter/Bypass	4 ms (Typical)	
	ECO to Battery mode	8 ms (Typical), 10 ms(max)	
Waveform (Batt. Mode)	Pure Sinewave		
<b>Battery/Charger</b>			
Battery Type	12V/9Ah		
Quantity	2	4	6
Typical Recharge Time	4 hours recover to 90% capacity for internal battery		
Charging Current (CC)	1.5A		
Charging Voltage (FV)	27.4VDC ± 1%	54. 8VDC ± 1%	82. 2VDC ± 1%
<b>Efficiency</b>			
City Electricity Mode	96%	97%	97%
ECO Mode	92%	93%	94%
Battery Mode	86%	88%	91%
<b>Display Interface</b>			
LCD	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicator Via LCD		
<b>Control Management</b>			
Smart RS-232 / USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC		
Optional SNMP	Power management from SNMP manager and web browser		
<b>Environment</b>			
Humidity	20-90 % RH @ 0 - 50°C (non-condensing)		
Noise Level	< 50dB @ 1m with Fan speed control		
<b>Standard</b>			
EMC/Safety	CE (EMC: EN62040-2 C2)		
<b>Physical</b>			
Dimension:W*D*H(mm)	145 * 282 * 220	145 * 397 * 220	190 * 421 * 318
Net Weight (kg)	9.8	17	26.2



# CN-UT Series High Frequency online UPS Single Phase In Single Phase Out 6~10KVA

 <p><b>Superior overload capacity</b> Superior overload capacity to make the power supply system more reliable.</p>	 <p><b>User-friendly design</b> 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><b>Grid friendly</b> Energy saving green power with high input power factor and low THDi.</p>	 <p><b>Can be used with a generator</b> 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.</p>



## Main Feature

- Strong overload capability
- High efficiency up to 94%
- Built-in back-feed relay
- Built-in OVCD protection
- Large charger up to 8A for longrun model
- Output power factor 1
- Wide input voltage range (110-300 VAC)
- Active input power factor correction 0.99
- 50Hz/60Hz frequency converter mode
- Emergency power off function (EPO)
- ECO mode for energy saving
- Generator compatible
- SNMP/USB/RS-232 communications
- Adjustable battery numbers
- Optional 2.8" color touched LCD



2.8" color touched LCD (option)

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Model CN-UT		1106(L)		1110(L)	
Phase	1 phase in / 1 phase out				
Capacity	6KVA/6KW		10KVA/10KW		
<b>Input</b>					
Rate Voltage	208/220/230/240 VAC				
Voltage Range	110~300VAC ± 3 % at 50% load ; 176~300VAC ± 3 % at 100% load				
Frequency Range	46~54 Hz or 56~64 Hz;40 ~ 70 Hz (In generator mode)				
Power Factor	≥ 0.99 @ full load				
Harmonic Distortion (THDi)	< 4% @100% Load ; < 6% @50% Load				
<b>Output</b>					
Rated voltage	208/220/230/240 VAC				
Voltage range (Battery Mode)	±1%				
Frequency	SYN Correction Range	46~54 Hz or 56~64 Hz			
	Battery Model	50 Hz ± 0.1Hz or 60Hz ± 0.1Hz			
Current Crest Ratio	3:1 ( Max )				
Harmonic Distortion (THDv)	≤ 1% THD (linear load); ≤ 4% THD (Non-linear load)				
Transfer Time	City Electricity /Battery	Zero			
	Inverter/Bypass	Zero			
Waveform (Batt. Mode)	Pure Sinewave				
Overload	City Electricity Mode	100-105% Continue, 105-125% for 10 min, 125%~150% 0.5min, >150% immediately			
	Battery Mode	100-110% 3min, 110-130% for 0.5 min, > 130% immediately			
<b>Battery Type</b>					
Battery Internal (Standard Unit)	Battery Type	12V/7Ah		12V/9Ah	
	Quantity	16	20	16	20
	Typical Recharge Time	9 hours recover to 90% capacity			
	Charging Current	1.0A			
	Charging Voltage	218.4 VDC ± 1%	240VDC ± 1%	218.4 VDC ± 1%	240VDC ± 1%
Battery External (Long Back up Unit)	Battery Type	Lead Acid			
	Quantity	16-20**			
	Charging Current	1A/2A/4A/6A/8A			
	Charging Voltage	(13.65VDC x battery number) ± 1%			
<b>Efficiency</b>					
City Electricity Mode	94%				
Battery Mode	92%				
<b>Display Interface</b>					
LCD	UPS status, load capacity, battery capacity, input/output voltage, discharge time and fault indication				
<b>Control Management</b>					
Smart RS-232 / USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC				
Optional SNMP	Power management from SNMP manager and web browser				
<b>Environment</b>					
Temperature and Humidity	20-95 % RH @ 0- 40°C (Non-condensing)				
Noise Level	< 55dB @ 1m		< 58dB @ 1m		
<b>Physical</b>					
Standard Unit	Dimension: W*D*H(mm)	190 *442 *688		190 *442 *688	
	Net Weight (kg)	51.5	60.5	60	70
Long Backup Unit	Dimension: W*D*H(mm)	145 *435*238			
	Net Weight (kg)	8.6		9.7	

# CN-UT Series High Frequency online UPS Three Phase In Single Phase Out 10~30KVA

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

**Load power factor of 0.8**  
Adapts to the characteristics of most current electrical equipment and increases the load carrying capacity of the machine.

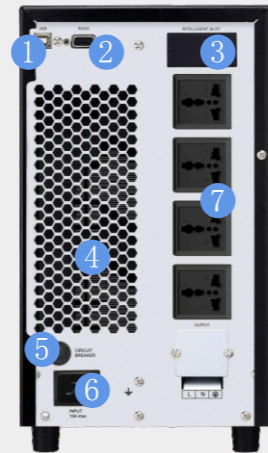
**Extended functions**  
The intelligent slots offer a wealth of expandable functions with the option of IS-B cards, AS400 cards, c-monitoring cards, SNMP cards, RS485 cards, EI environmental monitoring cards.

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



## Main Feature

- True double-conversion
- Output power factor 0.8
- Wide input voltage ( 190V-520V )
- 50Hz Frequency converter mode
- ECO mode efficiency
- EPO Emergency Shutdown Button
- Generator compatible
- Charger capacity extended to 8A can run longer
- SNMP/USB/RS-232 communications
- Three stage charging design to optimize battery performance
- Optional maintenance bypass switch
- Compatible with single input



Back Panel

1. USB interface(Optional)
2. RS-232 interface
3. Smart expansion slots
4. Cooling holes
5. Input circuit breaker
6. Input socket
7. Output sockets

## Applications


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

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Model CN-UT	3110(L)	3115(L)	3120(L)	3130(L)	
Capacity	10KVA / 8KW	15KVA / 12KW	20KVA / 16KW	30KVA / 24KW	
<b>Input</b>					
Connection Mode	Three-phase + four wire				
Nominal Voltage	3 x 400 VAC (3Ph+N)				
Voltage Range	190-520vac (3 phase)@50% load 305-520vac (3 phase)@100% load				
Frequency range	46~54 Hz / 56~64Hz				
<b>Output</b>					
Output Voltage	208/220/230/240VAC				
Voltage range (Battery Mode)	±1%				
Frequency	SYN Correction Range	46~54 Hz @ 50Hz system/56~64 Hz @ 60Hz system			
	Battery Model	50 Hz ± 0.2Hz / 60Hz ± 0.2 Hz			
Current Crest Ratio	3:1( max. )				
Harmonic Distortion	≤3 % THD (Linear Load) ≤ 5 % THD (Non-linear Load)				
Transfer Time	City Electricity /Battery	Zero			
	Inverter/Bypass	Zero			
Waveform (Batt. Mode)	Pure Sinewave				
<b>Battery Type</b>					
Battery Internal (Standard Unit)	Battery Type	12 V / 9 AH			
	Quantity	16	20	16	20
	Typical Recharge Time	9 hours recover to 90% capacity			
	Charging Current	Preset 1A,1A/2A/4A(Adjustable)			
Battery External (Long Back up Unit)	Battery Type	Depends on the applicant			
	Quantity	16	20	16	20
	Charging Current	Preset 4A,1A/2A/4A(Adjustable)			
	Charging Voltage	218.4 VDC ±1%	273 VDC ±1%	218.4 VDC ±1%	273 VDC ±1%
<b>Efficiency</b>					
City Electricity Mode	91%		93%		
Battery Mode	91%		88%		
<b>Display Interface</b>					
LCD	System status, Load level, Battery level, AC mode, Battery mode, Bypass mode, input/output voltage, and Fault indication				
<b>Alarm</b>					
Battery Mode	Sounding every 4 seconds				
Low Battery	Sounding every second				
Overload	sound every 0.5 second				
Fault	Continuously sounding				
<b>Control Management</b>					
Smart RS-232 / USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC				
Optional SNMP	Power management from SNMP manager and web browser				
<b>Environment</b>					
Relative Humidity	0-95% RH @ 0-40°C (Non-condensing)				
Noise Level	< 60dB @ 1 M				
<b>Physical</b>					
Standard Unit	Dimension: W*D*H(mm)	190*442*688		190*575*688	
	Net Weight (kg)	66	76	67	78
Long Backup Unit	Dimension: W*D*H(mm)	190*442* 318		190*575*318	
	Net Weight (kg)	15	16	22	64




# CN-UT Series High Frequency online UPS Three Phase In Three Phase Out 10~20KVA




**Superior overload capacity**  
Superior overload capacity to make the 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 powerfactor and low THDI.



**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

- True doubleconversion
- DSP technology for high performance
- Provides maintenance bypass
- Supports shared battery packs
- Output power factor 1.0
- Power step function
- Power factor correction available
- Optional parallel operation
- 50Hz/60Hz inverter mode
- ECO mode efficiency
- EPO Emergency Shutdown Button
- Generator compatible
- Optional isolation transformer
- SNMP/USB/RS-232 communications
- Three-stage charging design
- Optimised battery performance
- Adjustable battery quantity
- Suitable for long time operation



USB card



Inbuilt SNMP card



Parallel card



Isolation Transformer

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Model CN-UT	3310(L)	3315(L)	3320(L)	
Phase	Three-phase four-wire input/Three-phase four-wire output			
Capacity	10KVA/10KW	15KVA/15KW	20KVA/20KW	
Paralleling Capability	4			
<b>Input</b>				
Rate Voltage	3x380VAC (3ph + N + PE)			
Voltage Range	110-300 VAC @ 50% load; 176-276 VAC @ Load			
Frequency Range	40-70Hz			
Power Factor	>0.99@100% load			
Harmonic Distortion (THDi)	Linear load<3%			
<b>Output</b>				
Rated voltage	3 x 360*/380/400/415 VAC(3PH+N)			
Voltage range (Battery Mode)	±1%			
Frequency	SYN Correction Range	46~54Hz or 56~64Hz		
	Battery Model	50/60 Hz±1%		
Current Crest Ratio	3:1 ( Max )			
Harmonic Distortion (THDv)	≤ 1% THD (Linear load); ≤ 3% THD (Non-linear load)			
Transfer Time	City Electricity /Battery	Zero		
	Inverter/Bypass	Zero		
Waveform (Batt. Mode)	Pure Sinewave			
Overload capacity	100-110% 60 minutes, 111-125% 10 minutes, 126% - 150% 1 minute;> 150% for 400ms			
<b>Battery Type</b>				
Battery Internal (Standard Unit)	Battery Type	12V/9Ah	12V/9Ah	12V/9Ah
	Quantity	(10+10)	(16+16)	(16+16)
	Typical Recharge Time	9 hours recover to 90% capacity		
	Charging Current	1A~12A(Adjustable)		
	Charging Voltage	±136.5 VDC	±218 VDC	
Battery External (Long Back up Unit)	Battery Type	Multiple battery boxes according to actual application		
	Quantity	16~ 32(optional) ;32~ 40(Optional)	20~ 32(optional);32~ 40(Optional)	
	Charging Current	1A~12A(Adjustable)		
	Charging Voltage	±13.65V x N(N=16~20)		
<b>Bypass</b>				
Rated Voltage	3 x 380/400/415 VAC(3PH+N)			
Voltage Range	-30%~+20% (Adjustable)			
Frequency Range(Synchronized Range)	46~54Hz or 56~64Hz			
Overload Capacity	>130% 1 minutes (default value), continue to work until the circuit breaker is protected (Optional)			
<b>Efficiency</b>				
City Electricity Mode	96%			
ECO Mode	99%			
Battery Mode	96%			
<b>Display Interface</b>				
LCD	UPS status, load capacity, battery capacity, input/output voltage, discharge time and fault indication			
<b>Control Management</b>				
Smart RS-232 / USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC			
Optional SNMP	Power management from SNMP manager and web browser			
<b>Environment</b>				
Temperature and Humidity	0-40° C ; 0-95% relative humidity (non condensing)			
Altitude**	0~1500m under full load			
Noise Level	< 60dB @ 1m			
<b>Physical</b>				
Standard Unit	Dimension: W*D*H(mm)	250 *630 * 827		
	Net Weight (kg)	93	125	
Long Backup Unit	Dimension: W*D*H(mm)	250 *630 * 827		
	Net Weight (kg)	37	40	

# CNT Series High Frequency online UPS Three Phase In Three Phase Out 30~60KVA

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

**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.

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

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



## Main Feature

- True double-conversion
- DSP technology for high performance
- Provides maintenance bypass
- Supports shared battery packs
- Output power factor 1.0
- Power step function
- Power factor correction available
- Optional parallel operation
- 50Hz/60Hz inverter mode
- Energy Conservation Operating Mode (ECO)
- Emergency shutdown function (EPO)
- Generator support
- Optional isolation transformer (10K-80K)
- SNMP+USB+RS-232 multiple communication
- Threestage charging design
- Optimisedbattery performance
- Adjustable battery quantity
- Suitable for long time operation

## Applications


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

HEFEI COOLNET POWER CO.,LTD


Model CNT	3330(L)	3340(L)	3360(L)
Phase	Three in and three out		
Capacity	30KVA/30KW	40KVA/40KW	60KVA/60KW
Paralleling Capability	4		
<b>Input</b>			
Rate Voltage	3 x 380/400/415 VAC(3PH+N)		
Voltage Range	110-300 VAC @ 50% load; 176-276 VAC @ Load		
Frequency Range	40-70Hz		
Power Factor	>0.99@100% load		
Harmonic Distortion (THDi)	Linear load<4%		
<b>Output</b>			
Rated voltage	3 x 360*/380/400/415 VAC(3PH+N)		
Voltage range (Battery Mode)	±1%		
Frequency	SYN Correction Range	46~54Hz or 56~64Hz	
	Battery Model	50/60 Hz±1%	
Current Crest Ratio	3:1 ( Max )		
Harmonic Distortion (THDv)	≤ 2% THD (linear load); ≤ 5% THD (Non-linear load)		
Transfer Time	City Electricity /Battery	Zero	
	Inverter/Bypass	Zero	
Waveform (Batt. Mode)	Pure Sinewave		
Overload capacity	100-110% 60 minutes, 111-125% 10 minutes, 126% - 150% 1 minute;> 150% for 400ms		
<b>Battery Type</b>			
Battery Internal (Standard Unit)	Battery Type	12V/7Ah	12V/9Ah
	Quantity	(16+16)*2	(16+16)*2
	Charging Current	2A	
	Charging Voltage	+/-13.65 VDC*N±1%(N=16~20)	
Battery External (Long Back up Unit)	Battery Type	Multiple battery boxes according to actual application	
	Quantity	30~ 40(Optional)	
	Charging Current	1A~12A(Adjustable)	1A~20A(Adjustable)
	Charging Voltage	±13.65V x N(N=16~20)	
<b>Bypass</b>			
Rated Voltage	3 x 380/400/415 VAC(3PH+N)		
Voltage Range	305VAC~457VAC		
Frequency Range(Synchronized Range)	46~54Hz or 56~64Hz		
Overload Capacity	>130% 1 minutes (default value), continue to work until the circuit breaker is protected (optional)		
<b>Efficiency</b>			
City Electricity Mode	95.5%		
ECO Mode	98.5%		
Battery Mode	94.5%		
<b>Display Interface</b>			
LCD	UPS status, load capacity, battery capacity, input/output voltage, discharge time and fault indication		
<b>Control Management</b>			
Smart RS-232 / USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC		
Optional SNMP	Power management from SNMP manager and web browser		
<b>Environment</b>			
Temperature and Humidity	0-40° C ; 0-95% relative humidity (Non condensing)		
Altitude**	0~1000m under full load		
Noise Level	< 65dB @ 1m	< 70dB @ 1m	< 70dB @ 1m
<b>Physical</b>			
Standard Unit	Dimension: W*D*H(mm)	300 *815 *1000	300 *815 *1000
	Net Weight (kg)	207	233
Long Backup Unit	Dimension: W*D*H(mm)	300 *815 *1000	300 *815 *1000
	Net Weight (kg)	55	56




# CNT Series High Frequency online UPS Three Phase In Three Phase Out 80~200KVA




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



**Frequency Adaptive Systems**  
To meet the requirements of different electrical systems, it can be set Fixed or automatic recognition to suit 50Hz/60Hz.



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

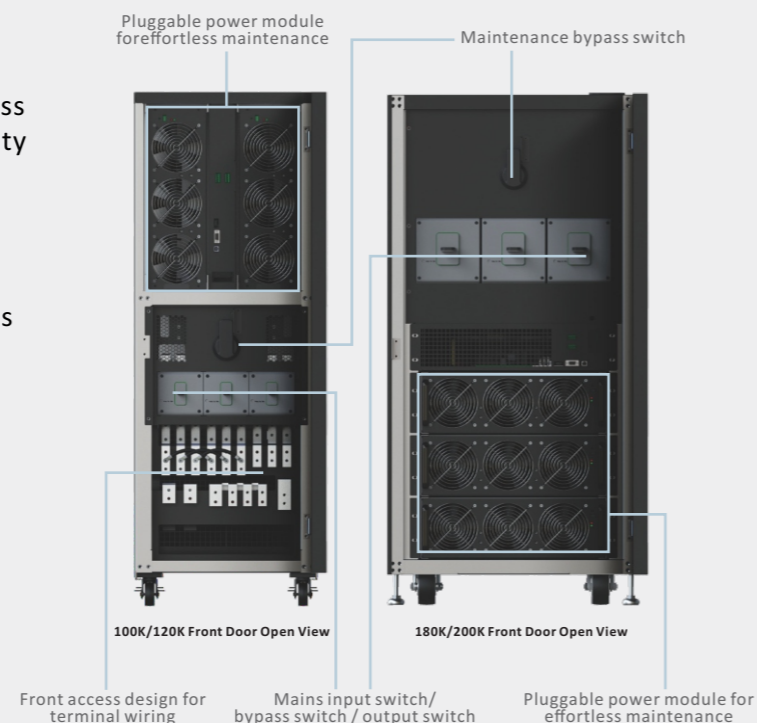


**Can be used with a generator**  
The wide range of input voltages and frequencies isolates the bad power generated by the generator to provide a pure, stable power supply to the load.



## Main Feature

- Pluggable power module design with front access to decrease MTTR, parallel redundancy capability for power guarantee
- Parallel operation with common battery
- Power walk -in function
- Dual-mains inputs
- Built-in 4 switches including Mains input, bypass input, output and maintenance bypass switch
- Flexible battery configuration and adjustable charging current
- Output power factor 1
- Active power factor correction in all phases
- Built-in 7" touch LCD screen for comprehensive information
- Emergency power off function(EPO)
- Generator compatible
- 50Hz/60Hz frequency converter mode



HEFEI COOLNET POWER CO.,LTD

Model CNT	3380L	33100L	33120L	33180L	33200L
Phase	3-phase in/ 3-phase out				
Capacity	80KVA/80KW	100KVA/100KW	120KVA/120KW	180KVA/180KW	200KVA/200KW
Battery Type	External Battery				
Paralleling Capability	4				
<b>Input</b>					
Rate Voltage	3 x 380/400/415 VAC(3PH+N)				
Voltage Range	110-300 VAC @ 50% load; 176-276 VAC @ Load				
Nominal Frequency	50/60Hz (Auto sensing)				
Frequency Range	40-70Hz				
Power Factor	>0.99@100% load				
Harmonic Distortion (THDi)	100% load<4%				
<b>Output</b>					
Rated voltage	3 x 380/400/415 VAC(3PH+N)				
Voltage Regulation (Steady state)	≤±1% Typical ( Balanced load) ≤± 2% Typical(Unbalanced load)				
Nominal Frequency	50/60Hz				
Frequency Range(Synchronized range)	46Hz ~ 54Hz or 56Hz ~ 64Hz				
Overload Capability	≅ 110% for 1 hour, 111% ~ 125% for 10 mins, 126%~150% for 1 min and >150% for 200ms				
Harmonic Distortion	≅ 2 % THD (Linear Load), 4 % THD (Non-linear Load)				
<b>Battery/Charger</b>					
Rate Voltage	+/-192V ~ +/- 240V ( Optional )				
Maximum Voltage	+/- 240V (12V x 40 Pcs )				
Minimum Voltage	+/-192V (12V x 32 Pcs )				
Floating Charge Voltage	2.28V / Cell (2.25 ~2.33 Optional)				
Boost Charging Voltage	2.35V/ Cell				
Temperature Compensation	Support				
Maximum Charging Current (Per Power Module)	24A(Adjustable)	36A(Adjustable)	54A(Adjustable)	54A(Adjustable)	
<b>Bypass</b>					
Rated Voltage	3 x 380/400/415 VAC (3Ph+N)				
Voltage Range	-30% ~ +20%				
Frequency Range(Synchronized range)	46Hz ~ 54Hz or 56Hz ~ 64Hz				
Overload Capability	≅ 110% for 1 hour, 111% ~ 125% for 10 mins, 126%~150% for 1 min and >150% for 200ms				
<b>Efficiency</b>					
City Electricity Mode	95.5%				
ECO Mode	98.5%				
Battery Mode	94.5%				
<b>Control Management</b>					
Smart RS-232 / USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC				
Optional SNMP	Power management from SNMP manager and web browser				
<b>Environment</b>					
Operating Temperature	0-40° C				
Operating Humidity	< 95 % (Non condensing)				
Altitude**	<1000m for Nominal power				
<b>Standard</b>					
Safety	IEC/EN 62040-1				
EMC	IEC/EN 62040-2 Category C3				
<b>Physical</b>					
IP Class	IP20				
Dimension:W*D*H(mm)	430 * 1000 * 1200	430 * 1000 * 1200	430 * 1000 * 1200	600*1000* 1200	600*1000* 1200
Net Weight (kg)	200	200	200	265	265