

A server room with rows of server racks on both sides, illuminated by overhead lights. In the center, a large black UPS unit is positioned on a raised floor. The text "Onlie UPS" and "10kVA~500kVA" is overlaid in the center of the image.

*Onlie UPS*  
10kVA~500kVA

With nearly 30 years of technological innovation and reliability, Coolnet UPS products always adhering high quality pioneering spirit of Coolnet in power industry. The UPS was designed in accordance with globe requirements that can be installed in any place-from Italy to Kuwait, China to Nepal and Mexico. We can provide high-quality power products integrated solutions for users, responsible for the design and engineering installation, to ensure the user engineering can be implemented successfully.

CN-UT series online UPS can meet the highest VFI-SS-111 standard among IEC62040-2 standard; this UPS series can meet all kinds of on-site requirements, adopting high reliability and high intelligent design that have enough ability to exceed the user's expectations and provide more additional value; the sky-high input power factor and the extremely low input current distortion factor ensured the product green and environment friendly, the higher complete machine efficiency also ensured the its skills. And the system supports more than 6 machines operating in parallel, which achieve the user's requirement of load increase and expansion upgrade.



60~300kVA



10~40kVA



400~500kVA



## UPS Features

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- ◆ Support LBS synchronic control;
- ◆ Support parallel operating and shared battery packs;
- ◆ All circuit boards are used in three-proofings process;
- ◆ Configuration EPO Emergency shutdown button;
- ◆ Adopt digital circulation control technology, which have high reliability for parallel operation;
- ◆ The subsystem adopting modular design that is easy for on-site maintenance;
- ◆ With super load adaptability, superior overload and short circuit capability;
- ◆ Adopt intelligent battery management program to extend the battery lifespan;
- ◆ With comprehensive maintenance, support the way of up and down inlet wire;
- ◆ With friendly man-machine interface, configured large-screen LCD touch screen and controllable keyboard that have rich information;
- ◆ With intelligent system self-diagnosis program, wealthy fault records, and large capacity historical storage space;
- ◆ With overlong average fault-free time (>200000h), ultra-low average maintenance time (< 0.5h) ;
- ◆ With ultra-wide input voltage and frequency range, which can adapt to harsh grid environment and adapt to a variety of generator access as well;
- ◆ All fans in the system are taken redundant design, with intelligent speed control function, which greatly improves the reliability of the system;
- ◆ With DSP all digital control, which makes the rectifier, inverter, charging, discharging convert link into all digital control come true;
- ◆ With rich optional components: SNMP card, air filter, lightning protection module, SMS alarm, battery temperature compensation module., etc.;
- ◆ Input power factor greater than 0.99, input harmonic current less than 3%, the whole equipment efficiency greater than 96%, which is environment protecting and energy efficient;
- ◆ Three-phase input/three-phase output pure online dual conversion product, support 380/400/415VAC, 50/60Hz power system that provide the best power quality and load protection.

# Specification

Model CN-UTL	3310	3315	3320	3330	3340	3360	3380	3390
Capacity	10kVA	15kVA	20kVA	30kVA	40kVA	60kVA	80kVA	90kVA
<b>Main Input</b>								
Input Voltage	380/400/415VAC (Line voltage) 、 50/60Hz							
Connection mode	Three-phase five-wire system							
Voltage range	285~520VAC (Line voltage) , full load; 216~285VAC ((line voltage) , load linearly derated from 100% to 75%							
Frequency range	40~70Hz							
Input power factor	>0.99							
Current distortion factor	<3%							
<b>Bypass input</b>								
Input voltage	380/400/415VAC							
Voltage range	Adjustable voltage, default -20%~+15%; upper limit: +10%, +15%, +20%, +25%; lower limit -10%, -15%, -20%, -30%, -40%							
Frequency range	Adjustable frequency, ±1Hz, ±3Hz, ±5Hz.,etc .							
<b>Output</b>								
Rated output voltage	380/400/415VAC Line voltage							
Rated output frequency	50/60Hz							
Voltage accuracy	±1%							
Frequency accuracy	±0.01%							
Total harmonic distortion THD	≤1% (Linear load) , ≤3% (Non-linear load)							
Power factor	≥0.9							
Frequency tracking accuracy	50/60Hz±3Hz (adjustable ±0.5Hz~5Hz)							
Three phase position accuracy	120°±0.5°							
Frequency tracking rate	0.1Hz/s~5Hz/s (adjustable , default 2Hz/s)							
Crest factor	≥3:1							
Voltage unbalance rate (100% unbalance load)	≤3%							
Overload capacity	105% long term operation							
	110% , convey to bypass after 1hour							
	125% convey to bypass after 10mins							
	150% convey to bypass after 1minute							
	>150%, convey to bypass after 200ms							
<b>System</b>								
System efficiency	City electricity mode: >96%							
	Battery mode: >96%							
	ECO mode: ≥99%							
Battery configuration	12V、 40 batteries (32~44 optional)							
Display	LCD+LED+ colorful touch screen							
EMC	IEC62040-2							
	IEC61000-4-2(ESD)							
	IEC61000-4-3(RS)							
	IEC61000-4-4(EFT)							
	IEC61000-4-5(Surge)							
Insulation resistance	>2MΩ(500VDC)							
Insulating strength	(Ground input and output)2820Vdc, Leakage current less than 3.5mA, 1 minute non arcing							
Surge protection	Reach to IEC60664-1 specified IV series installation requirement, that is 1.2/50us+8/20us combination wave less than 6kV/3kA							
Protection grade	IP20							
Communication interface	Rs232, RS485, dry contact, SNMP, EPO, connector							
Connection mode	support up and down inlet line							
Working temperature	0~40℃							
Relative humidity	0-95% Non-Condensing							
Noise (dB)	<58dB							
Size(W*D*H)(mm)	250*660*530		250*680*770		250*836*770	600*980*950	600*980*1150	600*980*1400
Weight(kg)	30		51	52	61	170	210	232

# Specification

Model	CN-UTL	33100	33120	33150	33200	33250	33300	33400	33500
Capacity		100kVA	120kVA	150kVA	200kVA	250kVA	300kVA	400kVA	500kVA
<b>Main Input</b>									
Input Voltage	380/400/415VAC (line voltage) 、 50/60Hz								
Connection mode	Three-phase five-wire system								
Voltage range	285~520VAC (line voltage) , Full load: 216~285VAC (line voltage) , ,load linearly derated from 100% to 75%								
Frequency range	40~70Hz								
Power factor	>0.99								
Current distortion factor	<3%								
<b>Bypass input</b>									
Input voltage	380/400/415VAC								
Voltage range	Adjustable voltage, default -20%~+15%; upper limit: +10%, +15%, +20%, +25%; lower limit -10%, -15%, -20%, -30%, -40%								
Frequency range	Adjustable frequency, $\pm 1\text{Hz}$ , $\pm 3\text{Hz}$ , $\pm 5\text{Hz}$ ., etc.								
<b>Output</b>									
Rated output voltage	380/400/415VAC(Line Voltage)								
Rated output frequency	50/60Hz								
Voltage accuracy	$\pm 1\%$								
Frequency accuracy	$\pm 0.01\%$								
Total harmonic distortion(THD)	THD<1% (Linear load) , THD<3% (Non-linear load)								
Power factor	$\geq 0.9$								
Frequency tracking accuracy	50/60Hz $\pm 3\text{Hz}$ (adjustable $\pm 0.5\text{Hz} \sim \pm 5\text{Hz}$ )								
Three phase position accuracy	$120^\circ \pm 0.5^\circ$								
Frequency tracking rate	0.1Hz/s to 5Hz/s(adjustable,default 2Hz/s)								
Crest factor	$\geq 3:1$								
Voltage unbalance rate (100%unbalance load)	$\leq 3\%$								
Overload capacity	105%,long term operation								
	110% , convey to bypass after 1hour								
	125% , convey to bypass after 10min								
	150% , convey to bypass after 1minute								
	>150% , convey to bypass after 200ms								
<b>System</b>									
System efficiency	City electricity mode: >96%								
	Battery mode: >96%								
	ECO mode: $\geq 99\%$								
Battery configuration	12V, 40 batteries (32~44 optional)								
Display	LCD+ LED+ colorful touch screen								
EMC	IEC62040-2								
	IEC61000-4-2(ESD)								
	IEC61000-4-3(RS)								
	IEC61000-4-4(EFT)								
	IEC61000-4-5(Surge)								
Insulation resistance	>2M $\Omega$ (500VDC)								
Dielectric strength	(Ground input and output)2820Vdc, Leakage current less than 3.5mA, 1 minute non arcing								
Surge protection	Reach to IEC60664-1 specified IV series installation requirement, that is 1.2/50us+8/20us combination wave less than 6kV/3kA								
Protection grade	IP20								
Communication interface	Rs232, RS485, dry contact, SNMP, EPO, generator connector								
Connection mode	Support up and down inlet line								
Operating temperature	0~40 $^\circ\text{C}$								
Relative humidity	0~95%(Non-Condensing)								
Noise (dB)	<68dB								
Size W*D*H(mm)	600*980*1150	600*980*1400	650*960*1600			650*960*2000		1300*1100*2000	
Weight(kg)	210	267	306	350	445	490	810	900	