

## **CNG310 Series Technical Specifications**

		CN	IG310 10-1	00KVA		1			
Model	10KVA	15KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	
Capacity	8KW	12 KW	16 KW	24 KW	32 KW	48 KW	64 KW	80 KW	
Input									
Rated voltage	380/400/4	15 Vac three	e-phase						
Voltage range	±20%								
Frequency range	45-65Hz								
Power factor	>0.92 with harmonic filter								
Current harmonic distortion	<5% with harmonic filter								
Soft Start	0 -100% in 10"								
Bypass Input									
Rated voltage	230Vac single-phase								
Permitted voltage range	±15%(selectable from ±10% to ±25% from front panel)								
Rated frequency	50/60Hz								
Permitted frequency range	±2%(selectable from ±1% to ±5% from front panel)								
Standard features	BackFeed portection; split bypass line								
Batteries	24511 000								
Type	Maintena	nce-free lead	-acid VRLA	AGM / GEL ·N	NICd				
	384VDC	Maintenance-free lead-acid VRLA AGM / GEL;NICd							
Battery Voltage	0.2 X C10								
Maximum recharge current(A)	<1%								
AC ripple voltage	<170								
Inverter output	401010	451014	001/0 (A	2010.0	401014	C010 (A	001/1/0	4001014	
Rated power(kVA)	10KVA	15KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	
Active power(kW)	8KW	12 KW	16 KW	24 KW	32 KW	48 KW	64 KW	80 KW	
Number of phases	1								
Rated voltage(V)		ingle-phase							
Regulation of the output voltage		220 ~ 244Vac phase/neutral(from control panel)							
Crest factor(Ipeak/Irms)		3:1							
Static stability	±1%	±1%							
Dynamic stability	±5%								
Frequency	50/60Hz (	50/60Hz configurable							
Overload	110% 125	110% 125% 150% of the rated current for 5h/10'/1'							
Frequency stability	±0.05% o	n mains failu	re		1		1		
System	10KVA	15KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	
Remote signaling	Volt free contacts								
Remote controls	EPO and Bypass								
Communication	RS232 + romote contacts								
Operation temperature	0°C to +40°C								
Relative humidity	<95% non condensing								
Colour	Light grey (RAL 7035)								
Noise	54dBA at 1m 60dBA at 1m 65dBA at 1m								
Protection degree	IP20								
Efficiency Smart Mode	up to 98%	Ď							
Compliance	•		Directive 200	6/95/EC); EN	/IC:6200-2(D	irective 2004	/108/EC)		
Weight(KG)N.W	176	220	205	213	295	440	520	770	
<b>č</b> ( )	-	-	555*730*121			-	30*1400	1115*730*140	
Dimensions:(WxDxH)mm									

(6 🙃 💮 🚾 🏦 🧕

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

# CONSNANT Constant Electric Power

# CNG330 Series Technical Specifications

					CNG3	30 10-6	
Model	10KVA	20KVA	30KVA	40KVA	60KVA	80KV/	
Capacity	8KW	16 KW	24 KW	32 KW	48 KW	64 KV	
Input							
Rated voltage	400 Va	c three-	phase				
Voltage range	380/40	0/415VA	AC(+25%	6,Can b	e set thi	ough th	
Frequency range	40-70H	lz(Autor	natically	select s	synchro	nization	
Range(HZ)	50±5%	(±10%)	Bypass s	synchro	nization	trackin	
Rectifying pulse number		6 puls	e rectific	ation			
Phase system	3 \[0 4W]	+PE(Th	ree phas	se five w	vire syst	em)	
Battery voltage(VDC)							
Battery quantity(section)	Standa	rd with	32(30~3	4, can b	e set th	rough t	
Output							
Power factor	0.8/0.9	optiona	I)				
Voltage(V)	L-N: 22	0±1%	L-L: 380:	±1%			
Three-phase 100% load	≤2%,A	llow 100	% imbal	ance			
unbalance voltage stability							
Frequency(HZ)	Normal	power,	tracking	the freq	uency o	f power	
Transfer time(ms)	0						
Parallel operation mode	8 parall	el mach	ine				
(parallel type)							
Waveform distortion			D<3%;I				
Overload capacity			10 minute restore th			o full loa	
Crest factor	>3:1	-					
Others	-						
Index	Standar	d with n	io transfe	er time r	naintena	ance by	
Communication function	Provides dry contract communication and RS2						
	al SNM	SNMP option to achieve intelligent m					
Panel display	LED displays working status and fault indication						
	input frequency, three-phase output voltage, lo						
	current,	etc					
Display	LCD 7"	touch s	creen di	splay			
The audio noise(dB)	<65(wit	hin 1 m	eter)				
Alarm function	Battery low voltage, abnormal power supply, or						
Protection	Input ov	ver volta	ige, batte	ery unde	er voltag	e, over	
Cooling way	Forced	cooling					
Operating temperature(℃)	0~40						
Humidity	0~95%,	non-co	ndensing	]			
electromagnetic compatibility	Conform	n GB72	60.2				
Size(W*D*H)(mm)		540*6	60*1135		1100*80	00*180	
Weight	196	233	276	329	461	547.5	
STANDA D: Conform to GB/IEC r	egulation	n: EMC:	GB7260	.2/IEC62	2040-2	-GB/17	

A D: Conform to GB/IEC regulation: EMC:GB/260.2/IEC62040-2 -GB Note: Product specifications are subject to change without further notice.

-60	OKVA								
VA	100KVA	120KVA	160KVA	200KVA	250KVA	300KVA	400KVA	500KVA	600KVA
W	80 KW	96 KW	128 KW	160 KW	200KW	240KW	320KW	400KW	480KW
	LCD pa	,	1						
	ange ac	coraing	to grid f	requenc	;y)				
ing	6/12 p	ulaa raati	fication			10 -		tifior	
	0/12 pt	ilse recti	lication			12	oulse red		
	384							48	30
the	e LCD p	anel) S	tandard	40 knot	s(38~42	knots,ca	an be se	et by LC	D panel
		,						,	
er,	Grid abr	ormal. 5	50±0.2%						
	,								
5%		ito and th	en switch	to hunon	0.000000	upply off	orroduo	na tha lay	ad a
auı		ite and th	enswitch	to bypas	s power s	uppiy, an		ily ille loa	40
ура	ass swite	ch							
23	2/RS485	5,							
moi	nitoring	of UPS.							
ion	LCD di	splays tł	nree-pha	ise input	t voltage	,			
oad	,batter	y voltage	e, battery	/ charge	and dis	charge			
		<b>DO ( )</b>							
			re, over		-				
PLO	ad, snor	t circuit,	over ten	nperatur	e protec	tion			
00	0 800*800*1900 1200			0*850*1900			600*110	0*2000	
.5	643	754			1375				646
		EC6100	0-4-2~5		TY:GB49	943			-
	(	E			TI	2 4		5	
				Course of	TL.	У тй	IV 🚯		







# CNG310 & CNG330 Series

Low Frequency Online UPS 10-600KVA



#### **Product snapshot:**

Model:CNG310 10-100KVA(3Ph/1Ph) Model:CNG330 10-200KVA(3Ph/3Ph) Nominal Input Voltage: 380/400/415VAC Output Power Factor: 0.8/0.9 (optional) Parallel: Maximum 8PCS UPS Battery can be shared in parallel mode



### High intelligence and reliable power supply:

Due to its outstanding mechanical and electrical design,CNG310\330 series UPS provides maximum protection for vital mission-critical networks, security applications (electro-medical) and industrial applications. The load is powered continuously by the inverter with a filtered, stabilized and regulated sinewave supply. The input and output EMI filters considerably increase the immunity of the load to mains disturbances and surges. The CNG310/CNG330 uses on-line double conversion technology (VFI) with isolation transformer on the inverter output.

The CNG310/CNG330 is supplied with Watch & Save 3000 software as standard and can be remotely monitored using the Power NetGuard system from anywhere in the world. Additional battery extension packs allow the standard battery runtime to be extended up to several hours.

### **Application:**

Servers Local area Network(LAN) Data centers Telecommunications Electro-medical equipment

#### MINIMUM IMPACT ON SUPPLIES EASY SOURSE:

Input current distortion <4% for the CNG310/CNG330 with filter with sinusoidal absorption to remove the risk of resonance with other input supply users or phase shift capacitor sets. The absorbed current distortion is independent of input supply parameters such as impedance. This enable CNG310/CNG330 to deliver maximum performance levels regardless of the installation environment. With these input features CNG310/CNG330 can achieve significant savings in terms of sizing and power supply courcesiso- ation transformers and generators over less sophisticated power systems.

#### SIMPLE TO INSTALL:

Capability to install the UPS into any distribution system(neutral not required on rectifier input);

Capability to separate the rectifier/bypass power networks and to power them from two separate sources, without Galvanic isolation (Necessary on UPS without an output transformer).

#### **HIGH RELIABILITY:**

Extremely high short-circuit current to ensure compatibility with the most difficult transformer applications (lighting, drives and industrial processes) and an isolation transformer on the inverter output;

Full microprocessor control with no-break static and manual bypasses;

IGBT technology.

#### **OTHER CHARACTERISTICS:**

0.8 power factor makes CNG310/CNG330 suitable for powering ICT and Industrial loads;

High level diagnostics: event log with 128 messages, states, measurements and alarms - available from the built-in LCD with several languages;

BACK FEED protection: to avoid energy feeding back into the mains supply cause a fault occur.

#### MAXIMUM RELIABILITY AND AVAILABILITY:

Connect up to 6 units in parallel or N+1 redundancy, even of different power ratings. The UPS continue to work in parallel even if one of the interconnecting communication cables is disconnected (CLOSED LOOP).



#### MAXIMUM BATTERY CARE:

Battery deep discharge protection;

- Temperature compensating charger;
- Built-in automatic and manual battery test feature.

#### LOW CONSUMPTION LEVELS:

CNG310/CNG330 can achieve efficiencies >98% thanks to selectable Economy Mode which can be used in stable electrical environments to provide power supply continuity when the mains fail.

#### **ADVANCE COMMUNICATION:**

Compatible with TeleNetGuard for remote maintenance;

Advanced, multi-platform communication for all operation systems and network environments: Watch & Save 3000

monitoring and shut-down software included, with SNMP agent, for Windows 2008, Vista, 2003, XP; Mac OS X, Linux, Novell and most popular Unix operatingsystems;

The UPS is supplied with a cable for direct connection to the PC(Plug and Play)

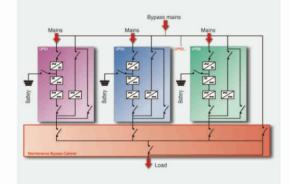
RS232 double Serial port Installation slot for an Emergency Power Off (EPO) interface to allow the UPS to be switched off remotely in an emergency

Generator interface: enables desynchronisation of the UPS output from a generator supply which may be subject to phase and frequency variations. The interface also enables more economic use of the battery charge.

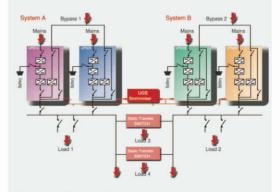
#### **EXPANDABILITY:**

The units can be connected in parallel up to 8 units to increase power availability or redundancy. The single module or the system can be expanded any time to suit power requirements without influencing the initial investment.

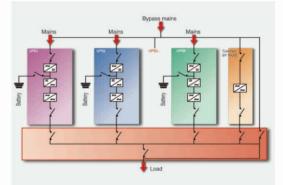
Thanks to the peculiarity of the "Hot System Expansion" feature, the additional unit can be connected in parallel while the other units are on-line and supplying regular power to the load. The new UPS is on-line and will be set up automatically.



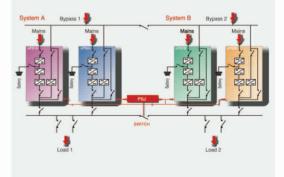
Parallel configuration of up to 8 units with distributed bypass Parallel architecture which guarantees the redundancy of the power source. + Flexibility and modularity



Dynamic dual bus configurati Solution which ensures redundancy until the distribution of the power supply to the loads + Downstream fault discrimination



Parallel configuration of up to 8 units with common bypass Parallel architecture which guarantees the redundancy of the power source, with autonomous bypass management. + Selectivity tream faults in bypass mode



Dual bus system configuration Solution which guarantees the redundancy of the power supply even during maintenance + High levels of availability and redundancy