

Modular Online UPS 100-1200KVA

CNM331

Series

GREEN
ENERGY SAVING
ENVIRONMENTAL PROTECTION

CONSANT

Constant Electric Power
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CNM331 SERIES MODULAR ONLINE UPS 100-1200kVA

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Introduction

CNM330 100-1200kVA is a newest generation of centralized bypass three-in-three-out modular UPS. The product adopts digital control, modular design and N+X parallel redundancy technology. One power module capacity is 100kW. The capacity covers all power sections between 100kVA to 1200kVA, which is convenient for users to configure flexibly and gradually invest. It can be 4 units in parallel.

Scenarios

Large and medium centers, server rooms, Financial centers, government, enterprise IT rooms, medical education and other mission-critical applications

Features

Advanced Technology

- DSP control technology, excellent performance, high stability system
- Three phase Vienna and three-level technology with 97% efficiency
- The output can be connected to a completely unbalanced load. When the output is connected to unbalanced load, the three-phase input current is balanced, which can balance the load of the three-phase grid.
- Output power factor 1.0

High Reliability

- Centralized control redundancy, N+X parallel redundancy up to 99.999%
- Centralized bypass improves the power supply ability
- Decentralized control, centralized management, each module operates independently, and failure of one module does not affect the operation of the entire system
- With EPO and REPO function

Strong Convenience

- Modular design, adjustable power module quantity
- Hot-swappable module, short maintenance time
- 10 inches color touch screen, providing abundant UPS status

Smart Design

- Battery capacity and charging current can be configured via LCD panel
- Intelligent charging makes fast charging and extends battery life
- The number of redundant UPS modules can be set arbitrarily
- UPS working in parallel can share batteries
- Multiple optional parts, such as SNMP, relay, dry contact card, etc

Green Concept

- 3U modular design saves machine room's space
- Parallel shared battery technology reduces battery investment
- Optional 30-50pcs batteries without N line leads flexible configuration

CNM331 100-1200KVA			
Model	600K	800K	1200K
Cabinet Capacity (VA/W)	100K/600K	100K/800K	100K/1200K
Module Capacity (VA/W)	100k/100k		
Max. Module Number	6	8	12
Main Input			
Rated Voltage	380/400/415Vac		
Voltage Range	138~485Vac; 305~485Vac (no derated load), 138~305Vac (derated load)		
Phase	3 Phase 5 Wire		
Frequency Range	40-70Hz		
Power Factor	≥0.99		
Current THDi	≤3% (100% Linear load)		
Bypass Input			
Rated Voltage	380/400/415Vac		
Phase	3 Phase 5 Wire		
Bypass Voltage Range	220VAC Upper limit voltage: 25% (optional +10%,+15%,+20%); 230VAC Upper limit voltage: 20%(optional+10%,+15%); 240VAC Upper limit voltage: 15%(optional +10%) Lower limit voltage: -45%(optional -10%,-20%,-30%)		
Bypass Synchronous Tracking Range	±10%		
Power Walking In	Yes		
Bypass Back Irrigation	Yes		
Generator Access	Yes		
Output			
Voltage	380/400/415Vac±1%		
Power Factor	1		
Frequency (Utility Mode)	±1%/±2%/±4%/±5%/±10% of the rated frequency (settable)		
Frequency (Battery Mode)	(50/60±0.1%)Hz		
Wave Form	Pure Sine Wave		
Crest Factor	3:1		
THDV	≤1% with linear load ≤3% with non linear load		
Transfer Time (ms)	Utility to Bypass: 0ms; Utility to Battery: 0ms		
Effieiciency (%)	96%		
Overload	load ≤ 110%: transfer to bypass after 60 min; 110% < load ≤ 125%: transfer to bypass after 10 min; 125% < load ≤ 150%: transfer to bypass mode after 1 min.		
Battery			
Modular Charge Current	Max 20A		
Voltage	Optional voltage: 360V - 600Vdc (30 - 50 pcs optional); (The default is 40 pcs. 36~50pcs, the output power does not decrease; 32~34pcs, the output power decreases to 0.9; 30pcs, the output power decreases to 0.8.)		
Environment			
Operating Temperature	0℃~40℃		
Storage Temperature	-25℃ ~ 55℃		
Humidity	0~95% (no condensing)		
Altitude	<1500m (over 1500m, derating use)		
Noise (dB) (1m distance)	<70dB		
Others			
Alarm	Overload, utility abnormal, UPS fault, battery low ,etc		
Protection	short circuit, overload, over temperature, battery low, fan falut alarm, bypass back irrigation, lightning protection		
Communication Interface	CAN, RS485, FE, LBS, Parallel, Relay card, SNMP card(optional)		
Cabinet Dimensions (W*D*H)	1000*800*2000	1000*2000*2000	1000*1600*2000
Module Dimensions (W*D*H)mm	750*442*130		
Cabinet Weight (Kg)	410	440	/
Module Weight (Kg)	50		
Safety Conformance	CE,EN/IEC 62040-3,EN/IEC 62040-1-1		