

Modular Online UPS 50-800KVA

CNM330

Series



GREEN
ENERGY SAVING
ENVIRONMENTAL PROTECTION

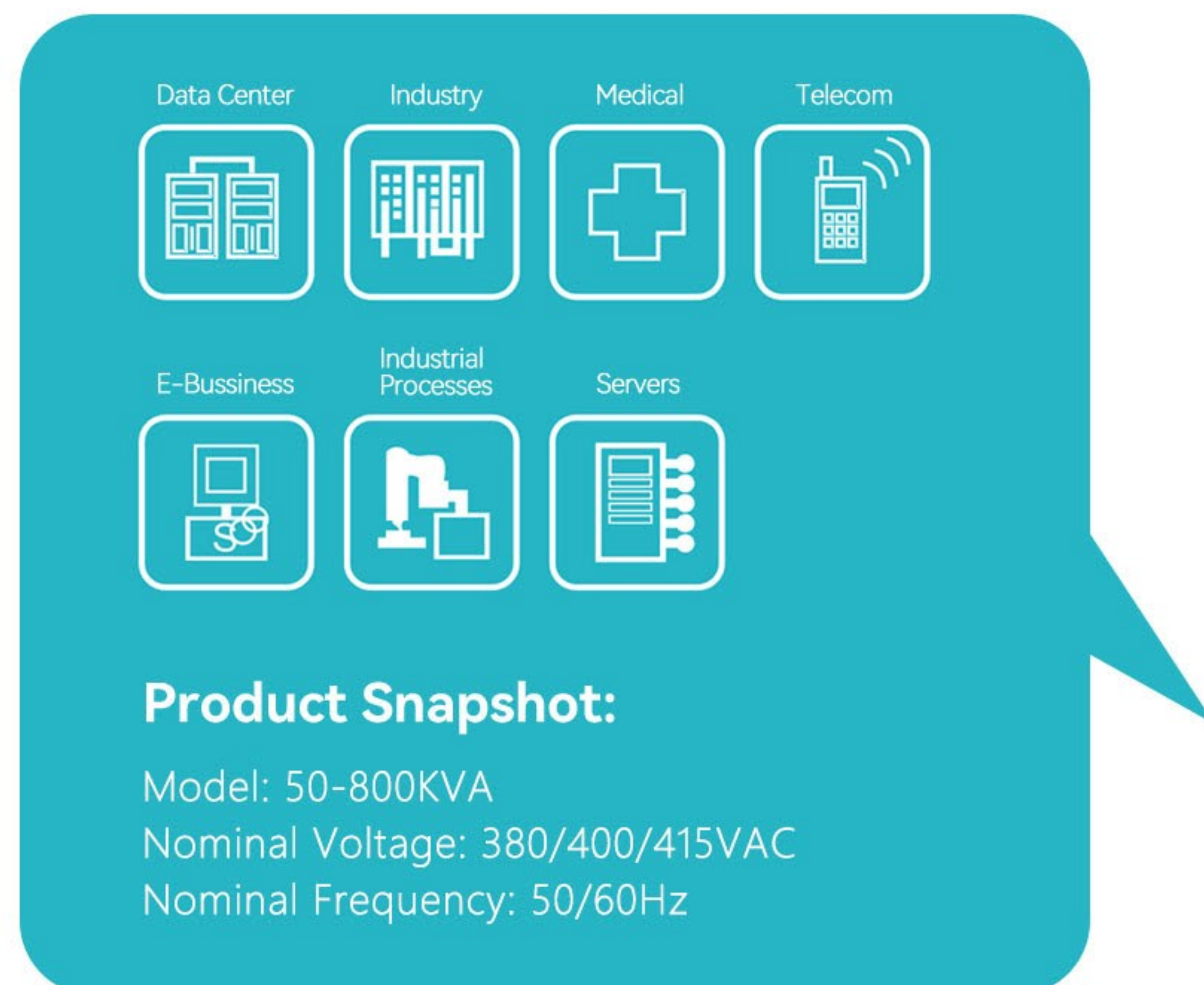
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Constant Electric Power
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CNM330 Series

Flexible Modular Parallel Redundancy UPS 50-800KVA



A blue callout box with a white border and a speech bubble tail pointing towards the right. It contains icons for various applications and technical specifications.

Product Snapshot:
Model: 50-800KVA
Nominal Voltage: 380/400/415VAC
Nominal Frequency: 50/60Hz

Applications shown with icons:
Data Center, Industry, Medical, Telecom, E-Business, Industrial Processes, Servers.



Summarization:

Our CNM330 Series is a kind of three-in-three-out high frequency online UPS, it provides three specifications: The 50~800kVA. The products are modularized and adopt the N+X redundancy. It can flexibly increase the number of the UPS modules according to the load capacity which is convenient for flexible allocation and gradually investment.

The UPS can solve most of the power supply problems, such as blackout, over-voltage, under-voltage sudden drop, oscillating of decreasing extent, high voltage pulse, voltage fluctuation, surge, inrush current, harmonic distortion (THD), noise interference, frequency fluctuation, etc..

This UPS can be applied to different applications from computer device, automatic equipment, communication system to industry equipment.

Key Features & Function:

- Digital control
- 19-inch standard cabinet (2-meter high cabiners are provided according to the user's requirement).
- Modularized design
- High power-density design, The height of the single module is 3U.

Key Features & Function:

■ N+X Parallel Redundancy

This series UPS adopts N+X parallel redundancy design, user can set different redundancy according to the importance of the load. While the redundancy modules are set more than two, the availability of UPS system will achieve 99.999%, which may satisfy the required reliability of the critical load connected. Through LCD display setting, you may configure the required quantity of the redundancy unit. When the load connected is over the number of the redundancy, the UPS will alert right away. The design of the MTBF (Meantime before failure) is up to 250,000 hours.

This series can set the number of redundancy modules. When the load exceeds the redundancy setting, the UPS can still work normally and simultaneously send out corresponding warning as long as the load doesn't exceed the total capacity of modules.

■ Parallel redundant control system

■ Optimizing distributed convergence for the cabinet

■ Centralized bypass

■ Common battery

■ Automatic charge current adjustment according to battery capacity connected.

■ 3-Stage intelligent charging

■ Touch-screen Super-large LCD display

■ Remote monitoring via SNMP

■ Optional Accessories available such as isolation transformer, distribution Panle, SNMP Card, Relay Contact Board, etc...

■ Equip with Maintenance Bypass Switch for easy maintenance purpose

■ Superior MTTR (Meantime to repair) & Short shutdown time in maintenance

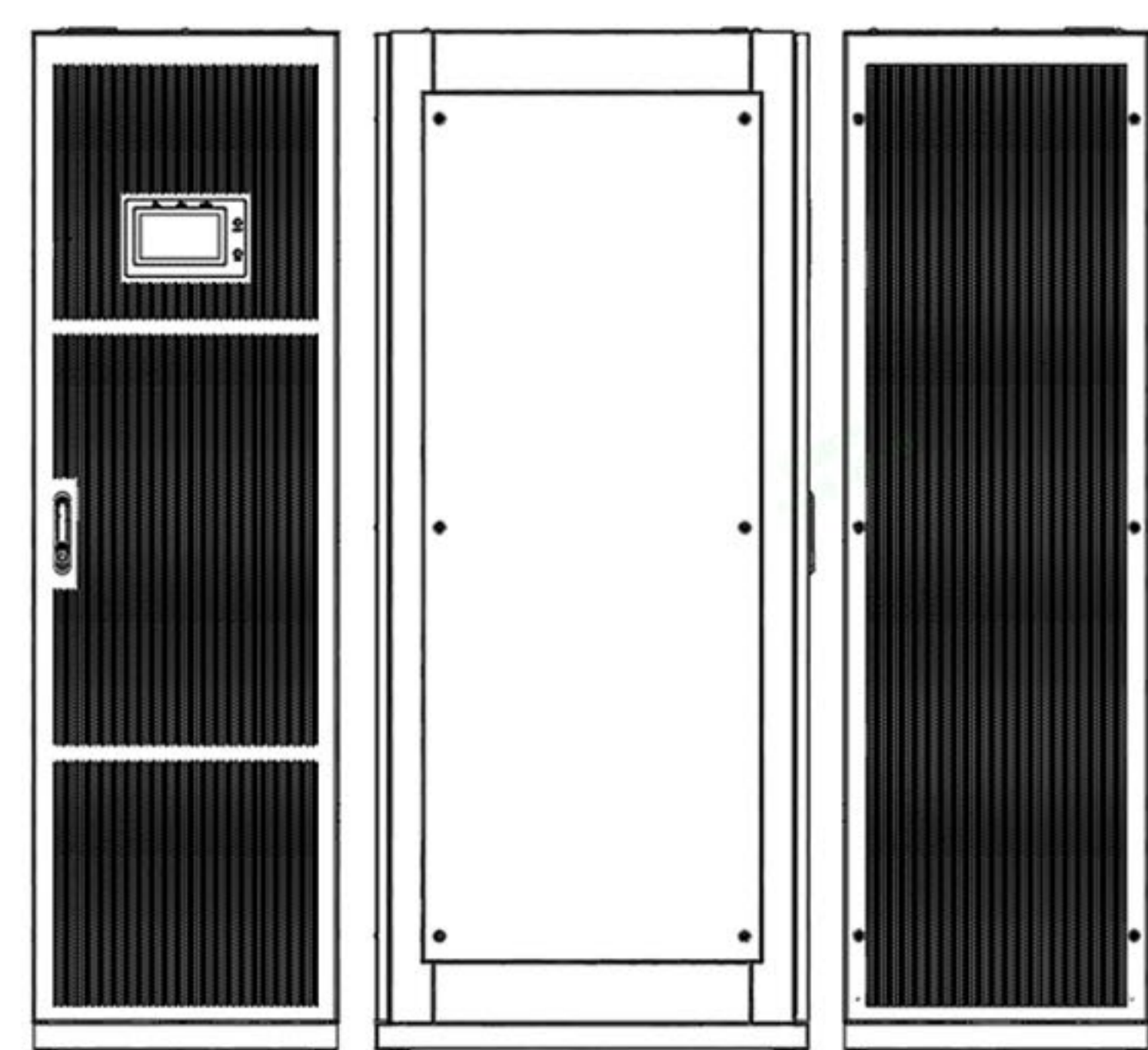
■ Centralized monitoring module is also available

■ EPO and REPO function



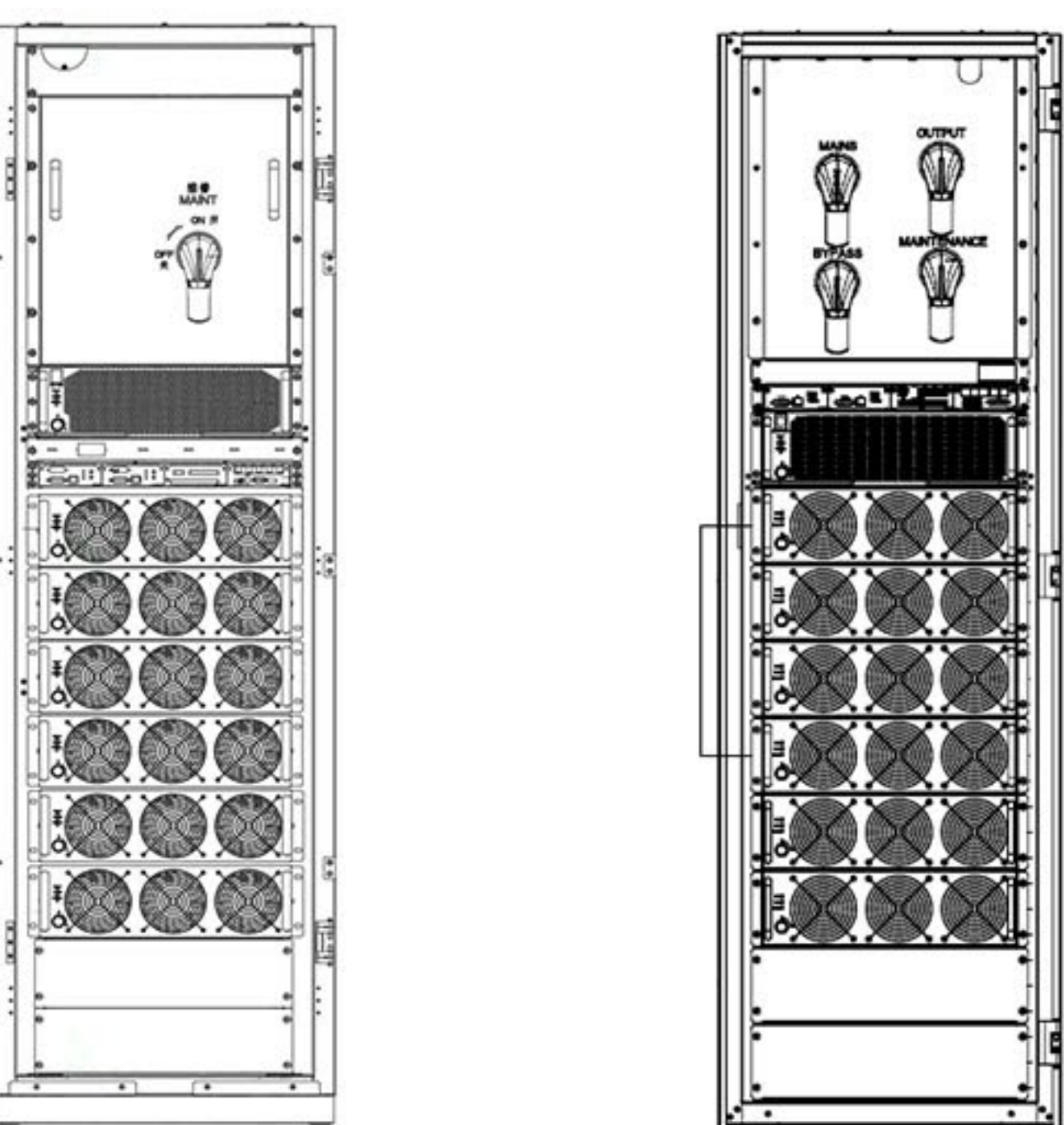
Appearance:

200/300kVA



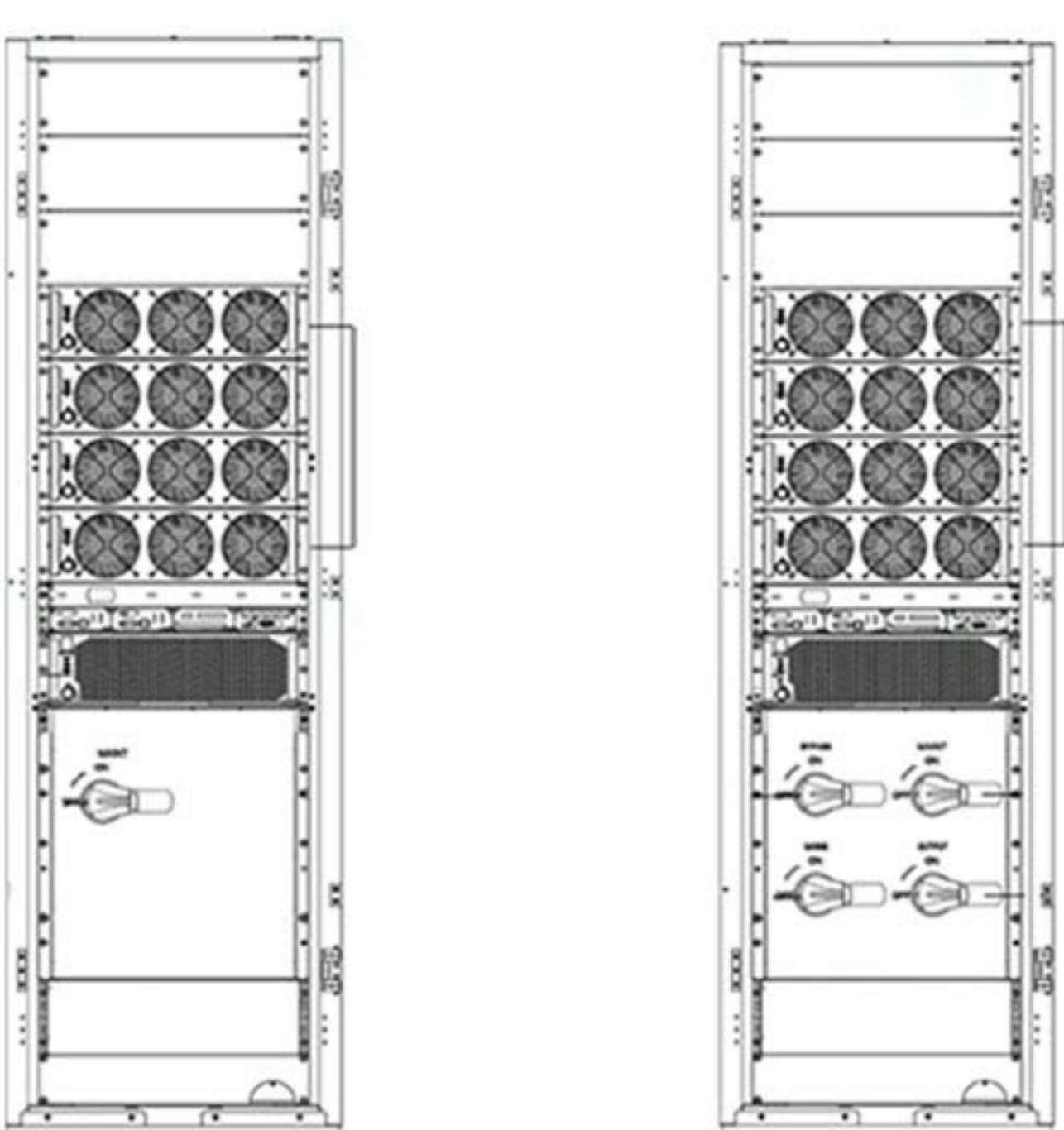
Front View Side View Rear View

Top Cable Entry:
Standard and fully configured versions



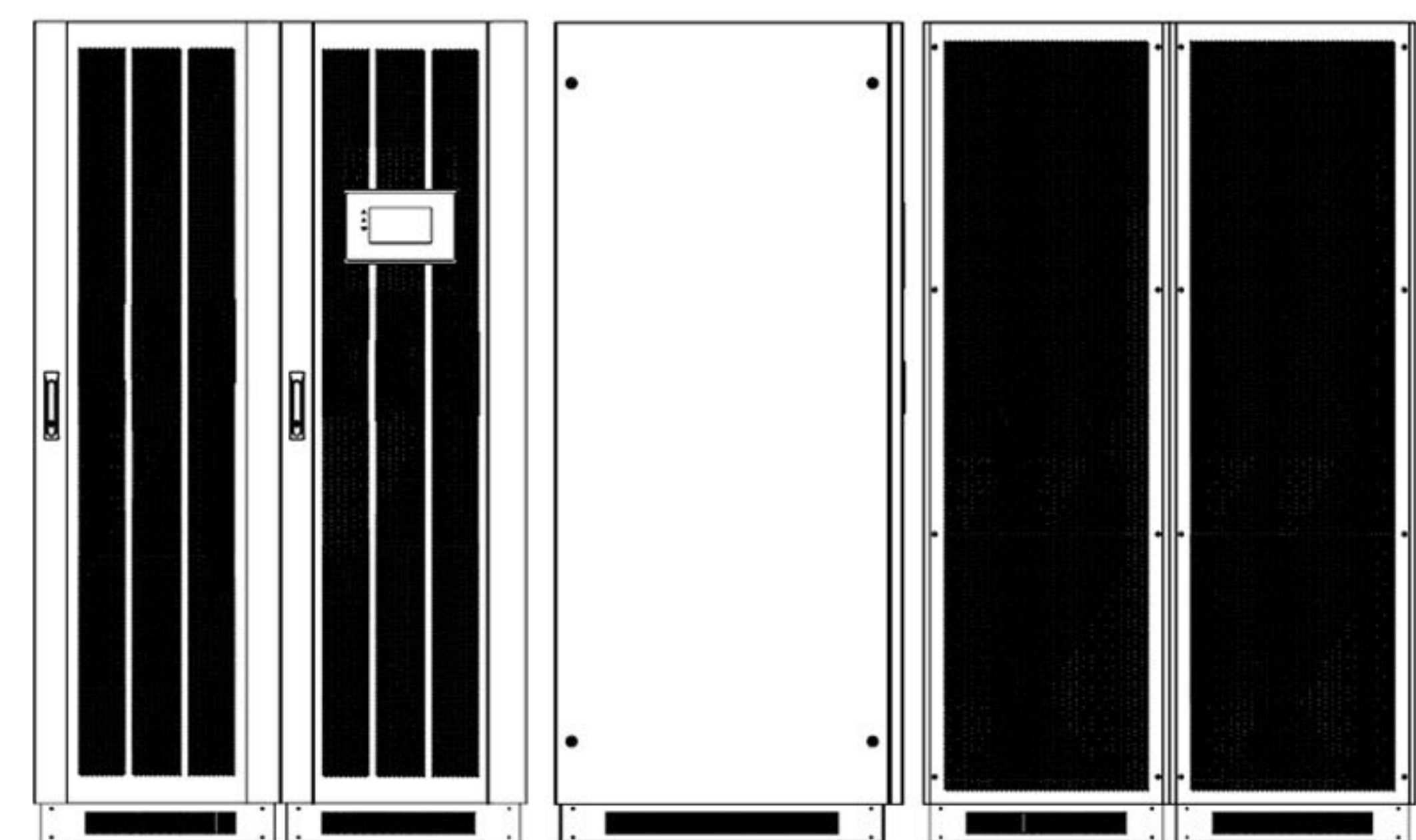
Front View: Standard configuration (door open) Front View: Full configuration (door open)

Bottom Cable Entry:
Standard and fully configured versions

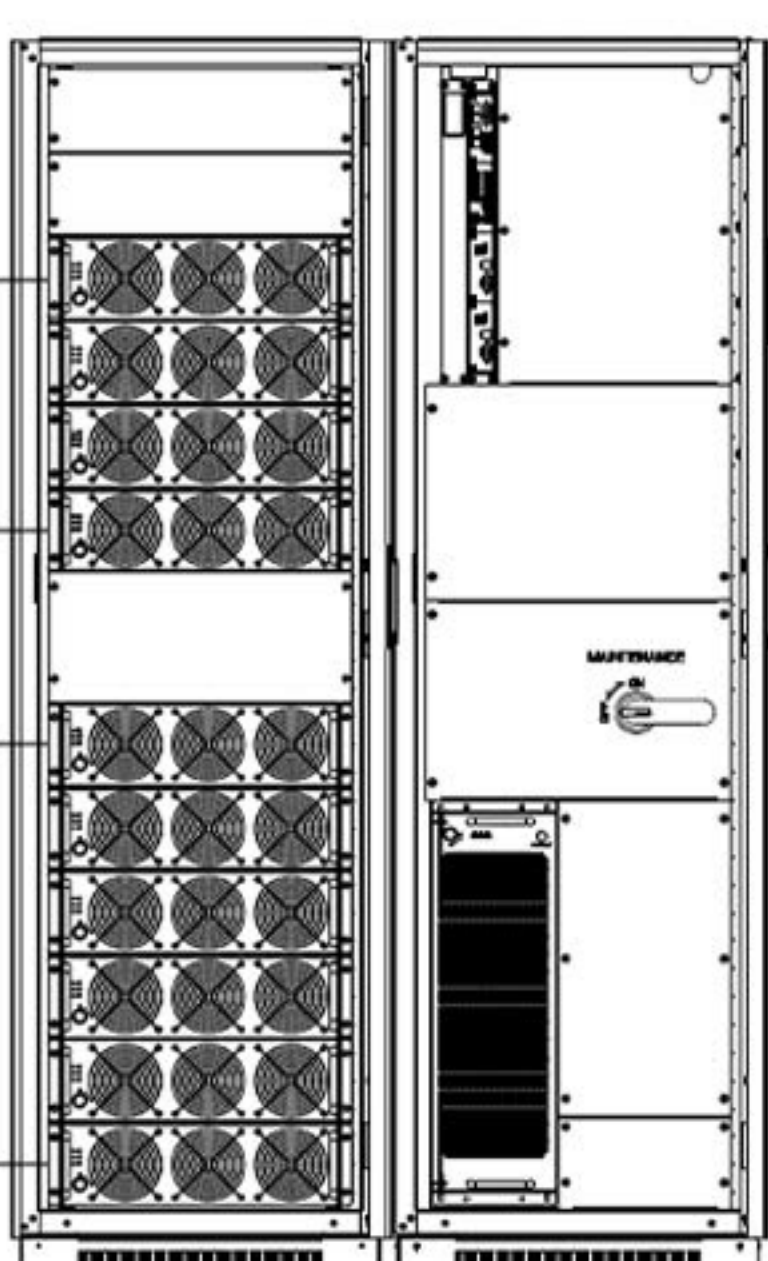


Front View: Standard configuration (door open) Front View: Full configuration (door open)

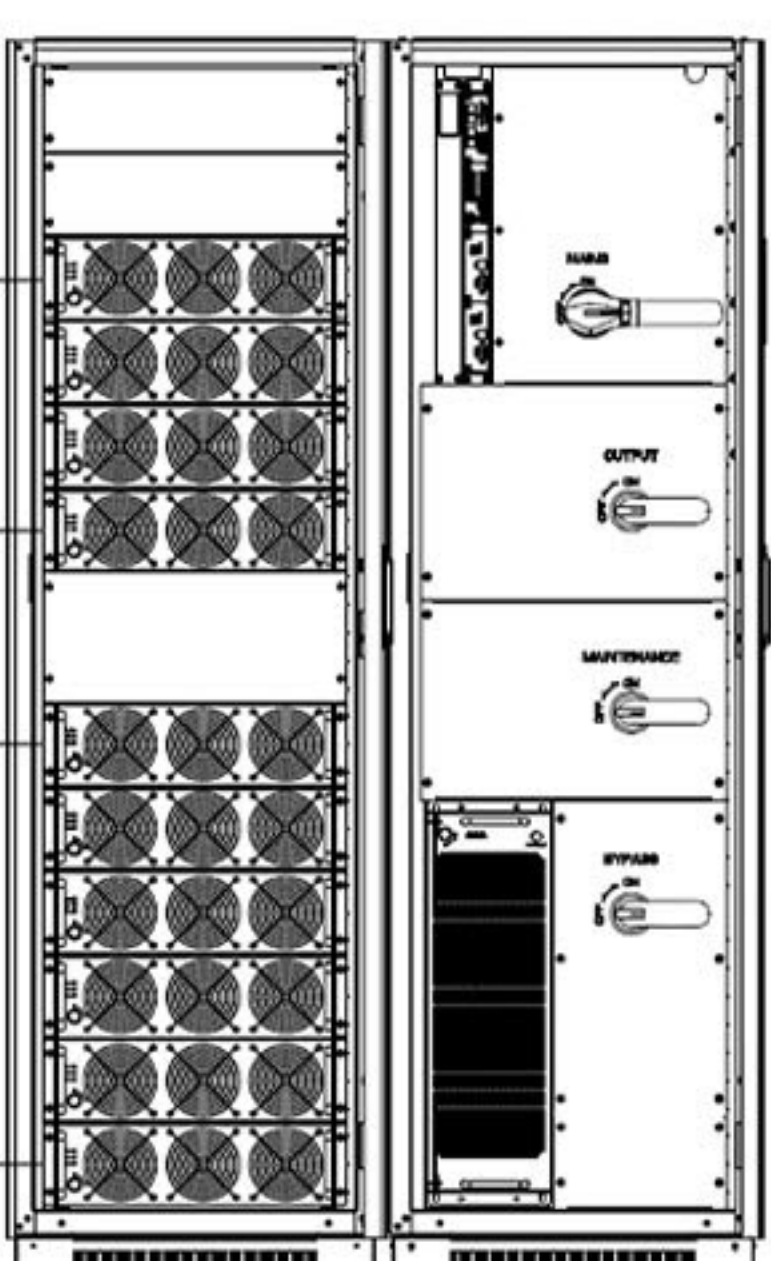
400/500/600kVA



Front View Side View Rear View

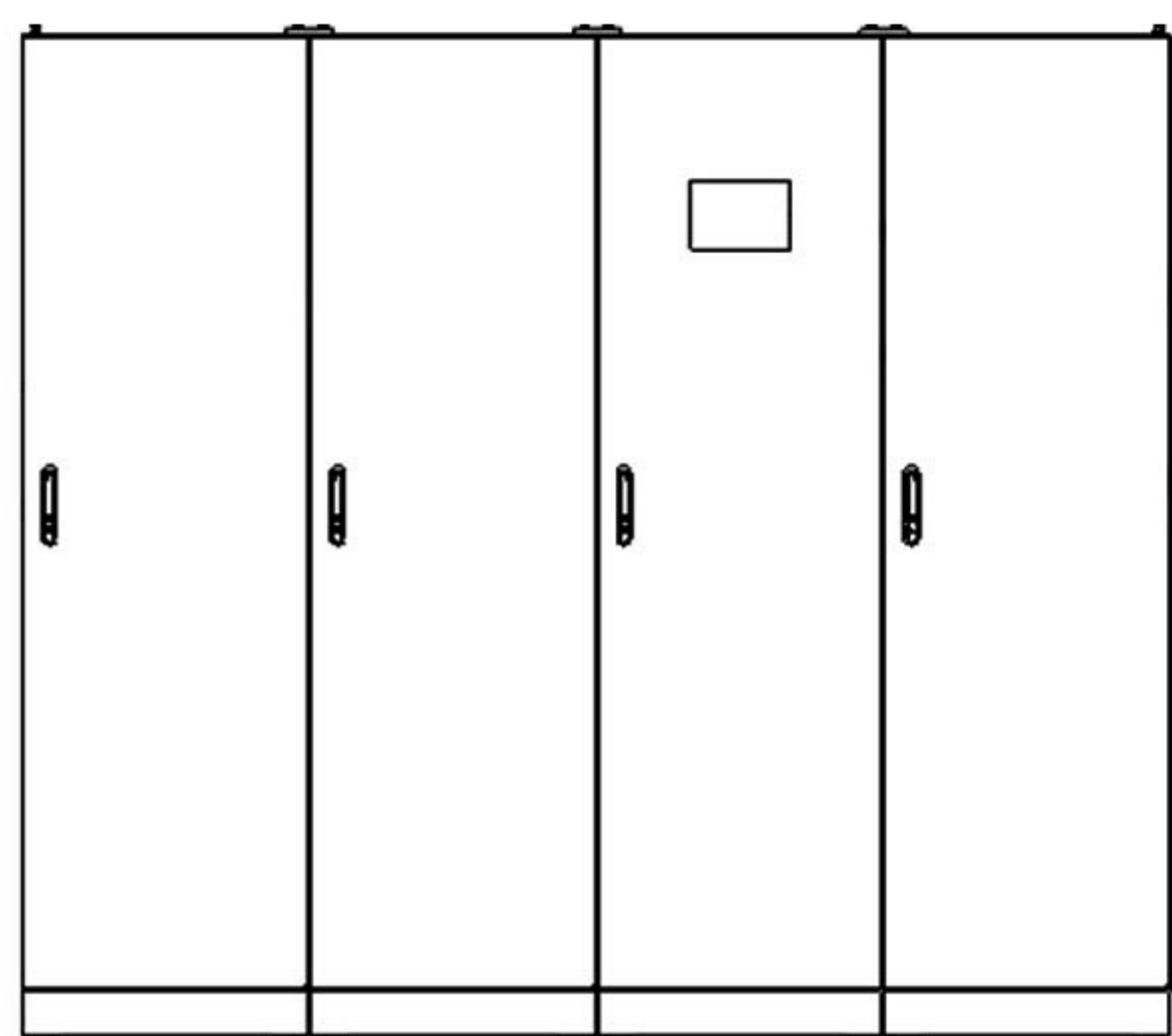


Front View: Standard configuration (door open)

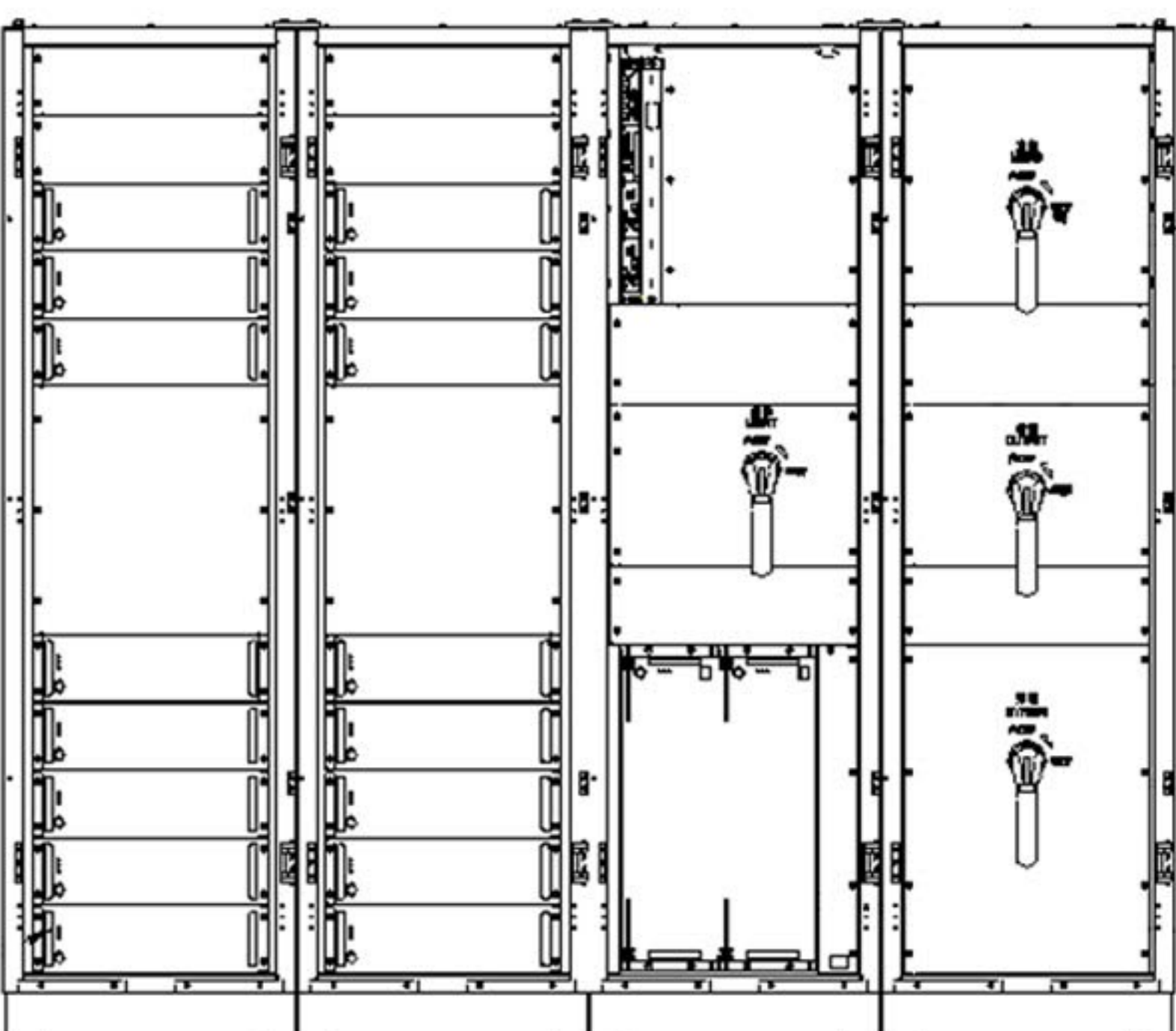


Front View: Full configuration (door open)

800kVA



Front View



Cabinet front structure and switch layout (door open)

Model	Configurations	Cable Routing
200kVA	50/100/150/200kVA	Supports cable routing from the top
300kVA	50/100/150/200/250/300kVA	Supports cable routing from the top and can support cable routing from the bottom if a cable entry cabinet is configured
400kVA	50/100/150/200/250/300/350/400kVA	Standard cabinet supports cable routing from the top. Full configuration cabinet supports cable routing from the bottom and top
500kVA	50/100/150/200/250/300/350/400/450/500kVA	Supports cable routing from the top
600kVA	50/100/150/200/250/300/350/400/450/500/550/600kVA	Supports cable routing from the top
800kVA	50/100/150/200/250/300/350/400/450/500/550/600k/800VA	Supports cable routing from the top and bottom

* Standard configuration: cabinet only with maintenance bypass switch
* Full configuration: cabinet with mains, bypass, maintenance and output switch

CNM330 Series Technical Specifications

CNM330 50 - 800KVA							
Model	200KVA		300KVA	400KVA	500KVA	600KVA	800KVA
System Capacity (VA/W)	50-200K		50-300K	50-400K	50-500K	50-600K	50-800K
Module Capacity (VA/W)	50K/50K						
Max. Module Number	4	6	8	10	12	16	
Main Input							
Wiring	3 Phase 5 Wires						
Rated Voltage	380/400/415Vac						
Voltage Range	138~485Vac; 305~485Vac no derating; 138~305Vac linear derating.						
Frequency Range	40Hz-70Hz						
Power Factor	≥0.99						
Current THDi	≤3% (100% linear load)						
Bypass Input							
Rated Input Voltage	380/400/415Vac						
Input Voltage Range	220Vac upper limited voltage: 25% (+10%、 +15%、 +20% optional); 230Vac upper limited voltage: 20% (+10%、 +15% optional); 240Vac upper limited voltage: 15% (+10% optional); Lower limited voltage: -45% (-10%、 -20%、 -30% optional)						
Wiring	3phase 5 wire						
Bypass Synchronous Tracking Range	±10Hz						
Output							
Wiring	3 Phase 5 Wires						
Rated Voltage	380/400/415Vac						
Power Factor	1						
Voltage Regulation	±1%						
Frequency	Utility Mode	±1%/±2%/±4%/±5%/±10% of the rated frequenct (settable)					
	Battery Mode	(50/60±0.1%)Hz					
Crest Factor	3:1						
THD	≤2% with linear load ≤3% with non linear load						
Overload	Inverter Overload Capability: • 105%<load≤110%: transfer to bypass mode after 60 min • 110%<load≤125%: transfer to bypass mode after 10 min • 125%<load≤150%: transfer to bypass mode after 1 min Bypass Overload Capability: • Temperature≤30℃, load≤135%: run for a long time • Temperature≤40℃, load≤125%: run for a long time • 1000% load: run for 100 ms						

CNM330 Series Technical Specifications

Battery						
Voltage	Optional Voltage: ±180V/192V/±204V/±216V/±228V/±240/±252/±264/±276/±288/±300Vdc (30/32/34/36/38/40/42/44/46/48/50pcs optional) (30 to 50 pcs are optional, 36pcs as default; 36~50pcs, the output power is not derate; 32~34pcs, the output power is derated to 0.9; 30pcs, the output power is derated to 0.8.)					
Max. Module Charge Current	20A					
Transfer Time						
Transfer Time	Utility to battery: 0ms; Utility to bypass: 0ms					
Protection						
Short Circuit	Hold Whole System					
Overheat	Line Mode: Switch to bypass; Backup Mode: Shut down UPS immediately					
Battery Low	Alarm and Switch off					
Self-diagnostics	Upon powe on and software control					
EPO	Shut down UPS immediately					
Battery	Advanced battery management					
Noise Suppression	Complies with EN62040-2					
Communication Interface						
Communication Interface	CAN, RS485, FE, LBS, Parallel, Relay Card, SNMP Card (optional)					
Environment						
Operating Temperature	0°C~40°C					
Storage Temperature	-25°C~55°C					
Humidity	0~95% non condensing					
Altitude	< 1500m (If above 1500m, derating to use)					
Display						
Audible & Visual	Line Failure, Battery Low, Overload, System Fault					
Status LED	UPS Fault, Alarm and normal					
Reading on the LCD	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Parameter set, History Record...					
Other						
Cabinet Dimensions (W*D*H)	600*850*2000	1200*850*2000			2400*850*2000	
Module Dimensions (W*D*H)mm	440*620*130					
Cabinet Weight(Kg)	203	235	407	443	513	1000
Module Weight(Kg)	33					
Safety Conformance	CE, EN/IEC 62040-3, EN/IEC					

STANDARD: Conform to GB/IEC regulation: EMC: GB7260.0/IEC62040-2-GB/17626.2~5/IEC61000-4-2~5 SAFETY: GB4943
Note: Product specifications are subject to change without further notice.

