

MAX-POWER PRO SERIES

20kVA Online Transformerless Rack Mount UPS



Norden's Maxpower Pro Series 20 kVA UPS is an online double conversion UPS that features 3/3, 3/1 operation and a unity output power factor. This model features a convertible rack-tower design and parallel redundancy capabilities, making it ideal for data center applications.



General Features

- LCD support Rack/Tower convertible design
- N+X parallel redundancy, support maximum 4 units in parallel
- Online double conversion with full digital control
- Wide input frequency range 40~70Hz
- Wide input voltage range:208~478Vac
- Input current harmonic:<3%
- Maximum Charging current up to 20A(Settable)
- Dual Input Sources
- ECO mode operation for energy saving
- Support 3/3 , 3/1 and 1/1 operation
- Generator compatible
- Cold Start
- Self-testing when UPS start-up
- 50/60Hz Frequency converter mode
- Intelligent fan speed regulation
- The quantity of battery:30-50pcs is settable

SPECIFICATIONS

MODEL		CN5320MP-RM	
Capacity	kVA	20	
	kW	20	
Input	Normal Voltage	380/400/415Vac (3Ph+N+PE) 220/230/240Vac (L+N+PE)	
	Operating voltage range	208~478Vac	
	Operating frequency range	40~70Hz (50/60Hz Auto-Sensing)	
	Power factor	≥0.99	
	Bypass voltage range	Max.voltage:220V:+25% (Optional+10%,+15%,+20%) 240V:+15% (Optional+10%) Min.voltage:-45% (Optional-20%,-30%), 230V:+20% (Optional+10%,+15%)	
	ECO range	Same as the bypass	
	Generator input	Support	
Output	Rated voltage	380/400/415Vac (3Ph+N+PE) 220/230/240Vac (L+N+PE)	
	Power factor	1.0	
	Voltage regulation	±1%	
	Frequency	Line mode	±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional)
		Bat. mode	50/60(±0.1)Hz
	Crest factor	3:1	
	Harmonic distortion (THDv)	≤2% with linear load, ≤5% with non-linear load	
	Efficiency	95%	
	Output Waveform	Pure Sine Wave	
Battery	Battery Numbers	30/32/34/36/38/40/42/44/46/48/50pcs with Neutral	
	Charging current	20A Max.(charge current can be set according to battery capacity installed)	

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MODEL		CN5320MP-RM	
System Features	Transfer time	Mains to battery:0ms; Mains to bypass:0ms	
	Overload	Line mode	Load≤110%: last 60min, ≤125%: last 10min, ≤150%: last 1min, >150% turn to bypass mode immediately
		Bypass mode	40A(Breaker)
	Short circuit	Hold whole system	
	Overheat	Line mode: Turn to bypass; Backup mode: shut down UPS immediately	
	Battery low	Alarm and switch off	
	Self-diagnostics	Upon power on and software control	
	Battery	Advanced battery management	
	Audible & Visual alarms	Line failure, Battery under voltage, Overload, System fault	
	LED & LCD display	Line mode, Bat. mode, Eco mode, Bypass mode, Battery under voltage, Overload & UPS Fault	
	LCD display	Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Battery voltage, Inner temperature & Remaining battery backup time	
Communication interface	RS232, RS485, Parallel, Intelligent Slot(SNMP card/ Relaycard (Optional)),BMS (Optional),EPO port Output port, MAINTAIN-AUXSWS port		
Environment	Operating temperature	0~40°C	
	Storage temperature	-25~55°C	
	Humidity range	0~95% (Non-condensing)	
	Altitude	<1500m	
	Noise level	<58dB	
Standards	Safety	IEC/EN62040-1,IEC/EN62477-1	
	EMC	IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8	
Physical	Dimension WxDxH (mm)	443 x 580 x 131	
	Net Weight (kg)	32	

*Product specifications are subject to change without further notice.

EXTERNAL BATTERY PACK

MODEL		CNBN20240CR
BATTERY SYSTEM		
Battery type	VRLA (Lead acid maintenance free battery)	
Typical battery recharging time	6~8 hours (to 90% of full capacity)	
Typical battery life	3~5 years, depend on discharging cycle and ambient temperature	
System voltage	±240Vdc	
Battery quantity	1*±20 PCS	
Capacity	7Ah/9Ah (12V)	
PHYSICAL		
Dimension W x D x H (mm)	443x861.5x175	
Net weight (kg)	114/123	
ENVIRONMENT		
Safety	CE	
Operating environment	0°C~40°C	
Relative humidity	0~95% (Non condensing)	
Noise level	<40dB at 1 Meter	

ORDERING INFORMATION

Part Number	Description
CN5320MP-RM	20kVA Double Conversion Transformer-less Rack Mount UPS (External Battery)
CNBN20240CR	240VDC Rack Mount Battery Pack

COMPATIBLE ACCESSORIES

Part Number	Description
CNS01	SNMP Card for 10-80kVA 3/1 and 3/3