

MAX-POWER SERIES

20kVA Online Transformerless UPS



Norden's Maxpower Series 20 kVA UPS is an online double conversion UPS that features a single phase in both input and output, and an output power factor of 0.9. This UPS has a flexible battery configuration and redundant design for increased availability.



General Features

- Online double conversion with DSP control
- Wide input range: 208~478Vac
- Wide input frequency range: 40~70Hz
- Support parallel function (Optional)
- Optimization battery group, the quantity of battery: 16/18/20pcs
- Support 3/1 and 1/1 operation
- Maximum charging current up to 16A (Settable)
- ECO mode operation for energy saving
- Cold start
- Intelligent fan speed regulation
- Self-testing when UPS start-up

SPECIFICATIONS

MODEL		CN7320MP	
Capacity	VA	20000	
	Watts	18000	
Input	Normal Voltage	380/400/415Vac; (3Ph+N+PE), 220/230/240Vac (L+N+PE)	
	Operating voltage range	208~478Vac, 120~276Vac	
	Operating frequency range	40~70Hz (50/60Hz Auto-Sensing)	
	Power factor	≥0.99	
	Bypass voltage range	Max.voltage: 220V: +25%(optional +10%,+15%,+20%) 230V: +20% (optional +10%,+15%) 240V: +15% (optional +10%) Min.voltage: -45% (optional -20%,-30%)	
	Bypass frequency range	Frequency protection range: ±10%	
Output	Generator input	Yes	
	Rated voltage	220/230/240Vac	
	Power factor	0.9	
	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	>94%		
Battery	Battery voltage	192/216/240Vdc	
	Capacity (Standard unit)	12V/7Ah/9Ah	
	Typical recharging time	6~8 hours (to 90% of full capacity)	
	Charging current	2.7A (standard unit) ; Max.current 18A(Long run unit)	

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MODEL		CN7320MP	
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	125A(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, USB, SNMP card (optional), Parallel board (optional), Relay card (optional)	
Environment	Operating temperature	0-40°C	
	Storage temperature	-25-55°C	
	Humidity range	0-95% (Non-condensing)	
	Altitude	<1500m	
	Noise level	<58dB at 1 Meter	
Physical	Dimension W x D x H (mm)	E: 220 x 531 x 450 ; I:250 x 900 x 868	
	Net Weight (kg)	28/171	

*Specifications are subject to change without prior notice.

STANDARDS		
	Safety	IEC/EN62040-1, IEC/EN60950-1
	EMC	IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8

ORDERING INFORMATION

Part Number	Description
CN7320MP	20kVA Double Conversion Transformer-less 3/1 UPS (External Battery)

COMPATIBLE ACCESSORIES

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