

MAX-POWER SERIES

2kVA Online Transformerless UPS



Norden's Maxpower Series 2 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 tower-type UPS is designed to be used in commercial buildings and offices, and can be connected to desktops and servers.



General Features

- High power density
- Online double conversion with full digital control
- Selectable output voltage:220/230/240Vac
- Wide input voltage range:110~300Vac
- Input power factor 0.99 with PFC
- Maximum charging current up to 12A (long run unit)
- Emergency power off function
- ECO mode operation for energy saving
- Multiple communication interface:RS232 (USB/Dry contact/SNMP card optional)
- Self-testing when UPS start-up
- Generator compatible
- Cold start
- Intelligent fan speed regulation
- Outlet socket universal (optional)

SPECIFICATIONS

MODEL		CN7002MPI/CN7002MPE		
Capacity	VA	2000		
	Watts	1800		
	Phase	Single phase with ground		
Input	Normal Voltage	208/220/230/240Vac		
	Operating Voltage Range	110~300Vac		
	Frequency Range	45~55Hz/55~65Hz (Auto-detect)		
	Power Factor	≥0.99 @Nominal voltage(100% load)		
Output	Output Voltage	208/220/230/240Vac		
	Power Factor	0.9		
	Voltage Regulation	±1%		
	Frequency	Line mode (Synchronized range)	45~55Hz / 56~64Hz	
		Bat. mode	50Hz / 60Hz ±0.1Hz	
	Crest Factor	3 : 1		
	Harmonic Distortion (THDv)	≤3% THD(Linear load)		
		≤5% THD(Non-linear load)		
	Transfer time	AC to DC	Zero	
		Inverter to bypass	4ms(Typical)	
Waveform	Pure sinewave			
Efficiency	AC mode	90%		
	Battery mode	87%		
Battery	Internal	Battery type	12V/9AH	
		Numbers	4	6
		Typical recharging time	4 hours recover to 90% capacity	
		Charging current(max.)	1.0A	
	External	Charging voltage	54.7Vdc ±1%	82.1Vdc ±1%
		Battery Numbers	4	6
		Charging Voltage	54.7Vdc ±1%	82.1Vdc ±1%
		Backup time	6A/12A	6A/12A

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MODEL		CN7002MPI/CN7002MPE	
Indicators	LCD	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators	
Alarm	Battery mode	Beeping every 4 seconds	
	Battery low	Beeping every second	
	Overload	Beeping twice every second	
	Fault	Continuously beeping	
Physical	Dimension W x D x H (mm)	Standard model	191x460x337
		Long run model	191x460x337
	Weight (kg)	Standard model	20/25
		Long run model	10
Environment	Humidity	20-90% RH @ 0-40°C (Non-condensing)	
	Noise level	<50dB @ 1 Meter	
Management	Smart RS232/USB	Supports Windows® 7/8/10, Linux, FreeBSD and MAC	
	Optional SNMP	Power management from SNMP manager and web browser	
Standards	Safety	IEC/EN62040-1,IEC/EN62477-1	
	EMC	IEN/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8	

*Specifications are subject to change without prior notice.

EXTERNAL BATTERY PACK

MODEL	CNBC00248CT	CNBC00272CT
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	48Vdc	72Vdc
Charging current (Max)	1.4A	
Battery quantity	8	12
Capacity	9Ah/12V (7Ah/12V optional)	
PHYSICAL		
Dimension W x D x H (mm)	191 x 460 x 337	
Net weight (kg)	28.5	38.5
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
CN7002MPI	2kVA Online Transformer-less UPS (Internal Battery)
CN7002MPE	2kVA Online Transformer-less UPS (External Battery)
CNBC00248CT	48VDC Tower Mount Battery Pack
CNBC00272CT	72VDC Tower Mount Battery Pack

COMPATIBLE ACCESSORIES

Part Number	Description
CNS02	Mini SNMP Card for 1-10kVA UPS