

Norden's Ultra power series 100-200kVA UPS is an online Transformer-based UPS which has three phase in both input and output and an output power factor of 0.9. This UPS Features an isolation transformer in the output side to provide galvanic isolation for the load connected and a 6 pulse rectifier and an optional 12 pulse rectifier model which can reduce the harmonic currents and increase the power factor considerably by reducing the amount of reactive power consumed.



### General Features

- Online Double Conversion
- Full DSP Control
- High Power Factor
- Wide input adaptability
- Optimized battery management
- N+X parallel redundancy
- Strong overload capability
- Multi-protection
- 6 Pulse and 12 Pulse Rectifier (Optional)
- EPO function

### SPECIFICATIONS

MODEL		CN433100TU	CN433120TU	CN433160TU	CN433200TU
Capacity	kVA	100kVA	120kVA	160kVA	200kVA
	Watts	90kW	108kW	144kW	180kW
Input	Normal voltage	380/400/415Vac (3Ph+N+PE) (-25% +20%)			
	Harmonic distortion(THDi)	<3%(100% linear load)			
	Operating frequency range	50/60Hz (±5Hz)			
	Power factor	0.98 (with filter)			
	Bypass voltage range	Upper limit:+20%(+10%,+15%,+20% adjustable) Lower limit:-40%(-10%,-20%,-30%,-40% adjustable)			
	Bypass Frequency range	±10%(±2.5%,±5%,±10%,±20% adjustable)			
Output	Rated voltage	380/400/415Vac (3Ph+N+PE)			
	Power factor	0.9			
	Voltage regulation	±1%			
	Frequency	50/60(±0.1)Hz			
	Crest factor	3:1			
	Harmonic distortion (THDv)	≤2% with linear load			
	Efficiency	>92%		>92.5%	
Battery	Output Waveform	Pure Sine Wave			
	Battery voltage	384Vdc (30/32/34pcs)			

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System Features	Transfer time	Mains to battery:0ms;		
	Overload	110%- 60min, 125%- 10min, 150%- 1min		
	LED Display	Input,Inverter,Bypass,Battery,Output,Status		
	LCD Display	I/O voltage,frequency,power,power factor,battery voltage,current,battery status,load percentage, UPS status,history record,settings		
	Communication	USB, RS232, RS485, Parallel port,dry contact, Intelligent slot, LBS, SNMP card (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	<65dB		
Physical	Dimension WxDxH(mm)	1160x805x1600 (6P)/1520x830x1600 (12P)		1200x800x1600 (6P)/1400x1000x1900 (12P)
	Net Weight (kg)	800/1100	903/1250	980/1645 1030/1715
Standards	Safety	IEC/EN62040-1,IEC/EN60950-1		
	EMC	IEC/EN 62040-2;IEC 61000-2-2;IEC 61000-4-2;IEC 61000-4-3;IEC 61000-4-4 IEC 61000-4-5;IEC 61000-4-6;IEC 61000-4-8;IEC 61000-4-11		
	Performance	IEC62040-3		

### ORDERING INFORMATION

Part Number	Description
CN433100TU	100kVA Double Conversion Transformer-Based 3/3 UPS (External Battery)
CN433120TU	120kVA Double Conversion Transformer-Based 3/3 UPS (External Battery)
CN433160TU	160kVA Double Conversion Transformer-Based 3/3 UPS (External Battery)
CN433200TU	200kVA Double Conversion Transformer-Based 3/3 UPS (External Battery)

### COMPATIBLE ACCESSORIES

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