ULTRA-POWER SERIES





Norden's Ultra power series 160-200 kVA UPS is an online double conversion UPS that has three-phase in both input and output and a unity output power factor. This features a maximum parallel expanded operation of up to 6 units and has an inverter efficiency upto 96% makes it suitable for data center applications.



General Features

- Wide input voltage range 140~485Vac (Phase voltage 80~280Vac)
- High input power factor, can be up to 0.99
- Three-level inverter topology, the efficiency can be up to 96%
- Support parallel expanded operation: maximum is 6 units
- Input current harmonic: <3%
- Large charging current
- High adaptability for the load it can connect full inductive load or capacitive load
- Power Walk in function, it can reduce the star current impact to the system and reduce the capacity of the generator
- Optimized battery group, the quantity of battery:30-50pcs
- LBS function can realize 2 independent UPS systems work in synchronization enhancing the reliability of the system
- The output factor is 1, and can be meet 100% unbalanced load
- Support USB,RS485,RS232,SNMP,dry contact card

SPECIFICATIONS

MODEL	MODEL		CN933160U / CN933160U-5L	CN933180U / CN933180U-5L	CN933200U / CN933200U-5L	
Capacity	kVA		160	180	200	
	kW		160	180	200	
Input	Normal Voltage		380/400/415Vac (3Ph+N+PE)			
	Operating voltage range		138~305Vac for 40% Load; 305~485Vac for Full Load			
	Harmonic distortion(THDi)		<3%(100% linear load)			
	Operating frequency range		40~70Hz			
	Power factor		≥0.99			
	Bypass voltage range		220Vac Max.Voltage:+25% (optional +10%,+15%,+20%) 230Vac Max.Voltage:+20%(optional +10%,+15%)			
			240Vac Max.Voltage:+15%(optional +10%) Min.Voltage:-45%(optional -15%,-20%,-30%)			
	Bypass Frequency range		Frequency synchronize tracing range:±10%			
	Generator input		Yes			
Output	Rated voltage		380/400/415Vac (3Ph+N+PE)			
	Power factor		1			
	Voltage regulation		±1%			
	Frequency	Line mode	$\pm 1\%/\pm 2\%/\pm 4\%/\pm 5\%/\pm 10\%$ of the rated frequency (Optional)			
		Bat. mode	50/60(±0.2%)Hz			
	Crest factor		3:1			
	Harmonic distortion (THDv)		≤2% with linear load, ≤4% with non-linear load			
	Efficiency		95.5%			
	Output Waveform		Pure Sine Wave			
Battery	Battery voltage		±180/±192/±204/±216/±228/±240/±252/±264/±276/±288/±300Vdc(30/32/34/36/38/40/42/44/46/48/50pcs)			
	Charging current (Charging current can be set according to the battery capacity installed)		60A		80A	

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ULTRA-POWER SERIES



160-200kVADouble ConversiorTransformer-less UPS

MODEL			CN933160U / CN933160U-5L	CN933180U / CN933180U-5L	CN933200U / CN933200U-5L	
System Features	Transfer time		Mains to battery:0ms; Inverter to bypass:0ms			
	0 1 1	Line mode	≤110%: Overload 60min, ≤150%: Overload 1min, >150% 1.2s turn to bypass mode immediately			
	Overload	Bypass mode	30°C: 135% Overload long term; 40°C: 125% Overload long term >1000%, 100ms			
	Backfeed Protection		Yes			
	Alarm		Overload, utility abnormal, UPS fault, battery low, etc			
	Protection		Short circuit, overload, over-temperature, battery low, fan fault alarm			
	Remote LCD		Yes			
	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		<63dB	<64dB	<66dB	
	IP Rating		IP 20			
Physical	Dimension W x D x H (mm)		442x850x1200			
	Net Weight (kg)		200	220	280	
Standards	Safety		CE; IEC/EN62040-1,IEC/EN62477-1			
	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 IEC61000-4-11)			

^{*}Product specifications and appearances are subject to change without prior notice.

ORDERING INFORMATION

Part Number	Description			
CN933160U	160kVA Double Conversion Tower Type 3/3 UPS (External Battery)			
CN933160U-5L	160kVA Double Conversion Tower Type 3/3 UPS with 5inch LCD display (External Battery)			
CN933180U	180kVA Double Conversion Tower Type 3/3 UPS (External Battery)			
CN933180U-5L	180kVA Double Conversion Tower Type 3/3 UPS with 5inch LCD display (External Battery)			
CN933200U	200kVA Double Conversion Tower Type 3/3 UPS (External Battery)			
CN933200U-5L	200kVA Double Conversion Tower Type 3/3 UPS with 5inch LCD display (External Battery)			

COMPATIBLE ACCESSORIES

Part Number	Description
CNS01	SNMP Card