

Norden's Ultra power series 50-80 kVA UPS is an online double conversion UPS that features three-phase in both input and output and a unity output power factor. This has a tower design which features strict voltage regulation and parallel operation of 6 units that makes it ideal for data centers and other critical business 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
- 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 1.0, and can be meet 100% unbalanced load
- Support USB, RS485, RS232
- SNMP and relay card (Optional)

### SPECIFICATIONS

MODEL		CN93350U/CN93350U-5L	CN93360U/CN93360U-5L	CN93380U/CN93380U-5L
Capacity	kVA	50	60	80
	kW	50	60	80
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	±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional)		
		50/60(±0.1)Hz		
	Crest factor	3:1		
	Harmonic distortion (THDv)	≤2% with linear load, ≤4% with non-linear load		
	Efficiency	95.5%		
Battery	Output Waveform	Pure Sine Wave		
	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)	20A		

# ULTRA-POWER SERIES

## 50-80kVA Double Conversion Transformer-less UPS



MODEL		CN93350U/CN93350U-5L	CN93360U/CN93360U-5L	CN93380U/CN93380U-5L
System Features	Transfer time	Mains to battery:0ms; Inverter to bypass:0ms		
	Overload	Line mode	≤110%: Overload 60min, ≤150%: Overload 1min, >150% 1.2s turn to bypass mode immediately	
		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	
Environment	Communication		USB, RS232, RS485, Parallel port, Intelligent slot, LBS, SNMP card (optional) , Relay card (optional)	
	Operating temperature		0~40°C	
	Storage temperature		-25~55°C	
	Humidity range		0~95% (Non-condensing)	
	Altitude		<1500m	
	Noise level		<55dB	<60dB
Physical	IP Rating		IP 20	
	Dimension W x D x H (mm)		250x828x868	442x850x1200
	Net Weight (kg)		80	114
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 61000-4-8, IEC61000-4-11)	

\*Product specifications and appearances are subject to change without prior notice.

### ORDERING INFORMATION

Part Number	Description
CN93350U	50kVA Double Conversion Tower Type 3/3 UPS (External Battery)
CN93360U	60kVA Double Conversion Tower Type 3/3 UPS (External Battery)
CN93380U	80kVA Double Conversion Tower Type 3/3 UPS (External Battery)
CN93350U-5L	50kVA Double Conversion Tower Type 3/3 UPS with 5inch LCD display (External Battery)
CN93360U-5L	60kVA Double Conversion Tower Type 3/3 UPS with 5inch LCD display (External Battery)
CN93380U-5L	80kVA Double Conversion Tower Type 3/3 UPS with 5inch LCD display (External Battery)

### COMPATIBLE ACCESSORIES

Part Number	Description
CNS01	SNMP Card

