

# ULTRA-POWER SERIES

## 30-40kVA Double Conversion Transformer-less UPS



Norden's Ultra power series 30-40 kVA UPS is an online double conversion UPS that features three-phase in both input and output and an output power factor of 0.9 This tower model features a high-density design with parallel redundancy and ECO mode for power savings.



### General Features

- High power density design
- N+X parallel redundancy, support maximum 4 units in parallel
- Online double conversion with DSP control
- Input current harmonic: <3%
- Wide input voltage range: 208~478Vac
- Wide input frequency range: 40~70Hz
- Optimized battery group, the quantity of battery: 30~50pcs
- Maximum charging current up to 20A
- Generator compatible
- ECO mode operation for energy saving
- Intelligent fan speed regulation
- Self-testing when UPS startup
- 50/60Hz frequency converter mode

### SPECIFICATIONS

MODEL		CN93330U / CN93330U-5L	CN93340U / CN93340U-5L
Capacity	KVA	30	40
	kW	27	36
Input	Normal Voltage	380/400/415Vac (3Ph+N+PE)	
	Operating voltage range	305~478Vac(Full load); 208~478Vac(50% load)	
	Harmonic distortion(THDi)	<3%(linear load)	
	Operating frequency range	40~70Hz (50/60Hz Auto-Sensing)	
	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 -20%,-30%)	
	Bypass Frequency range	Frequency synchronize tracing range:±10%	
	Generator input	Yes	
Output	Rated voltage	380/400/415Vac (3Ph+N+PE)	
	Power factor	0.9	
	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, ≤5% with non-linear load	
	Efficiency	94.5%	
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

## 30-40kVA Double Conversion Transformer-less UPS



MODEL		CN93330U / CN93330U-5L	CN93340U / CN93340U-5L
System Features	Transfer time	Mains to battery:0ms; Inverter to bypass:0ms	
	Overload	Line mode	≤110%,last 60min; ≤125%,last 10min; ≤150%,last 1min; > 150% turn to bypass Immediately
		Bypass mode	≤110%,last 10min; ≤125%,last 1min; ≤150%,last 5s; > 150% turn to bypass Immediately
	Backfeed Protection		Yes
	Alarm		Overload, utility abnormal, UPS fault, battery low, etc
	Protection		Short circuit, overload, over-temperature, battery low, fan fault alarm
	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	<61dB	<64dB
	IP Rating		IP 20
Physical	Dimension W x D x H (mm)		250x580x655
	Net Weight (kg)	43	46
Standards	Safety		CE; IEC/EN62040-1,IEC/EN62477-1
	EMC		IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8

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

### ORDERING INFORMATION

Part Number	Description
CN93330U	30kVA Double Conversion Tower Type 3/3 UPS (External Battery)
CN93330U-5L	30kVA Double Conversion Tower Type 3/3 UPS with 5inch LCD display (External Battery)
CN93340U	40kVA Double Conversion Tower Type 3/3 UPS (External Battery)
CN93340U-5L	40kVA Double Conversion Tower Type 3/3 UPS with 5inch LCD display (External Battery)

### COMPATIBLE ACCESSORIES

Part Number	Description
CNS01	SNMP Card

