

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	Line mode	±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional)	
		Bat. mode	50/60(±0.1)Hz	
	Crest factor	3:1		
	Harmonic distortion (THDv)	≤2% with linear load, ≤5% with non-linear load		
Efficiency	94.5%			
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)	20A		

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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 7inch 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 7inch LCD display (External Battery)

COMPATIBLE ACCESSORIES

Part Number	Description
CNS01	SNMP Card

