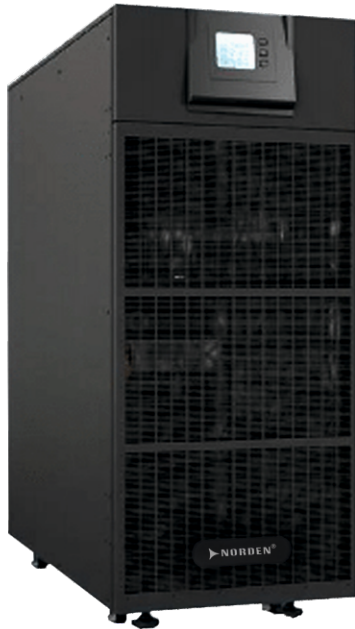


Norden's Ultra power series 50-80 kVA UPS is an online double conversion UPS that features three-phase in both input and output and a unity output power factor. This has a tower design which features strict voltage regulation and parallel operation of 6 units that makes it ideal for data centers and 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 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 1.0, 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 | 140~485Vac 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 -20%,-30%) | | | |
| | Bypass Frequency range | Frequency synchronize tracing range:±10% | | | |
| | Generator input | Yes | | | |
| Output | Rated voltage | 380/400/415Vac (3Ph+N+PE) | | | |
| | Power factor | 1.0 | | | |
| | 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, ≤4% with non-linear load | | | |
| | Efficiency | 96% | | | |
| 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 | | 40A | |

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; Mains to bypass:0ms | | |
| | Overload | Line mode | ≤110%: Overload 60min, ≤150%: Overload 1min, >150% turn to bypass mode immediately | |
| | | Bypass mode | 135% Overload long time; 170% Overload 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, 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 | <55dB | <58dB | <60dB |
| Physical | Dimension W x D x H (mm) | 828x250x868 | | 850x442x1200 |
| | Net Weight (kg) | 80 | 83 | 114 |
| Standards | Safety | IEC/EN62040-1,IEC/EN60950-1 | | |
| | EMC | IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8 | | |

ORDERING INFORMATION

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

COMPATIBLE ACCESSORIES

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

