

Norden's Ultra power series 100-150 kVA UPS is an online double conversion UPS that features three-phase in both input and output and a unity output power factor. This tower design allows for maximum parallel operation of up to 6 units, making it perfect for industrial and other critical business applications with strict voltage regulation.



### 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           |  | CN933100U / CN933100U-5L  | CN933120U / CN933120U-5L                               | CN933150U / CN933150U-5L |  |
|-----------------|--|---|--|--------------------------|--|
| Capacity        | kVA  | 100   | 120  | 150                      |  |
|                 | kW   | 100   | 120  | 150                      |  |
| 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%)<br>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   | ±1%/±2%/±4%/±5%/±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) | 40A   |  | 60A                      |  |

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|-----------------|--|---|---|--------------------------|
| 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   |   |                          |
| 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  | <62dB   | <63dB   |                          |
| IP Rating       | IP 20  |   |   |                          |
| Physical        | Dimension W x D x H (mm)   | 442x850x1200  |   | 442x850x1200             |
|                 | Net Weight (kg)  | 160   | 170   | 200                      |
| 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   |
|--------------|---|
| CN933100U    | 100kVA Double Conversion Tower Type 3/3 UPS (External Battery)                        |
| CN933100U-5L | 100kVA Double Conversion Tower Type 3/3 UPS with 7inch LCD display (External Battery) |
| CN933120U    | 120kVA Double Conversion Tower Type 3/3 UPS (External Battery)                        |
| CN933120U-5L | 120kVA Double Conversion Tower Type 3/3 UPS with 7inch LCD display (External Battery) |
| CN933150U    | 150kVA Double Conversion Tower Type 3/3 UPS (External Battery)                        |
| CN933150U-5L | 150kVA Double Conversion Tower Type 3/3 UPS with 7inch LCD display (External Battery) |

### COMPATIBLE ACCESSORIES

| Part Number | Description |
|-------------|-------------|
| CNS01       | SNMP Card   |