

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 1.0, 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 | 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) | 40A | | 60A |

| MODEL | | CN933100U / CN933100U-5L | CN933120U / CN933120U-5L | CN933150U / CN933150U-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,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 |
| Physical | Dimension W x D x H (mm) | 828x250x868 | | 850x442x1200 |
| | Net Weight (kg) | 147 | 152 | 190 |
| 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 | | |

*Specifications are subject to change without prior notice.

ORDERING INFORMATION

| Part Number | Description |
|--------------|---|
| CN933100U | 100kVA Double Conversion Transformer-less 3/3 UPS (External Battery) |
| CN933100U-5L | 100kVA Double Conversion Transformer-less 3/3 UPS with 5inch LCD display (External Battery) |
| CN933120U | 120kVA Double Conversion Transformer-less 3/3 UPS (External Battery) |
| CN933120U-5L | 120kVA Double Conversion Transformer-less 3/3 UPS with 5inch LCD display (External Battery) |
| CN933150U | 150kVA Double Conversion Transformer-less 3/3 UPS (External Battery) |
| CN933150U-5L | 150kVA 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 |

