









Wide input Range	
Power Factor	<b>1.0 PFC</b>
Double Conversion	<b>VFI TYPE</b>
Long Back-up	
IFR	
ECO	
Interface SNMP	
Hot swappable	

Transformer based design UPS are Low frequency UPS systems, which provides better compatibility with various types of loads and ensures higher levels of reliability and efficiency. They are often used in applications where reliability and performance are critical, such as data centres, medical facilities, and industrial environments. Netcon Low frequency UPS has salient features like Higher Power Capacity compared to High frequency UPS, better compatibility with wide range of loads, greater surge capacity to handle sudden spike in power demand, Improved Voltage Regulation to regulate voltage more effectively, providing a stable and clean power supply to connected equipment, enhanced reliability less prone to failure and can withstand harsh operating conditions. Overall, low frequency UPS systems are preferred in applications where reliability, capacity, and compatibility with various loads are paramount.

## FEATURES

### High reliability design

Double Conversion on-line design, which makes the output a pure sine wave source with tracking frequency, phase-lock and voltage regulation, low distortion and without power fluctuation interference, providing the load with more comprehensive protection.

### Battery cold start function

The UPS can be start directly by battery group when no utility access in, which meets the emergent needs of user. Strong cold start ability, which can do the cold start operation when full load.

### Wide input range

Wide input voltage range up to: 304~456Vac, avoid frequently switching to battery mode, which adapt to the areas with harsh environment.

Wide input frequency range, ensure all types of fuel generators connected work stable.

### Optimization of high-performance battery

Adapt intelligent battery management (ABM technology, thus extending battery life and reducing battery maintenance times.

Advanced floating switching and charging technology. maximums the activation of the battery, thus saves the charging time and extends the battery life.

THDi <3% (100% linear load).

The UPS will work in sleeping mode when the load is very small.

### Strong protection for load

Built-in isolation transformer, strong anti-interference ability, provide more comprehensive protection.

### Comprehensive and reliable protection

Self-diagnosis function before start-up, avoid the risks that maybe lead to the failure.

The multi-protections such as overload, short-circuit, over-temperature, battery under voltage, battery over-charge and so on greatly ensure the system stability and reliability.

Advanced phase-locked synchronization technology and dual electronic static output switches, ensure the switching operation between bypass and inverter without any disturbance.

When UPS fails, it can transfer to bypass without interruption to provide AC power to load and provide the alarm information as well. DC start function.

The UPS can be started directly without AC, which meet the emergent needs of the user.

### User-friendly network management

Chinese and English language selectable via LCD panel. RS232 communication interface.

RS485 communication interface (Support MODBUS protocol).

SNMP card (Optional).

Events log can be record in the LCD panel.

Dry contact signal port are available.

## SPECIFICATIONS

MODEL	NTM6KL	NTM8KL	NTM10KL	NTM15KL	NTM20KL	NTM30KL	NTM40KL
Capacity	6kVA/4.8kW	8kVA/6.4kW	10kVA/8kW	15kVA/12kW	20kVA/16kW	30kVA/24kW	40kVA/32kW
INPUT							
Operating voltage range	380/400Vac ( ± 20%), (3Ph + N + PE)						
Operating frequency range	50/60Hz ( ± 5%)						
Power factor	≥0.97 *						
OUTPUT							
Output voltage	220Vac ( ± 0.5%)/230Vac ( ± 0.5%)						
Output frequency	50/60Hz ( ± 0.5%)						
Efficiency	86%					88%	
Harmonic distortion (THDv)	≤2% (Linear load)						
Crest factor	3:1 (Max)						
BATTERY							
Battery voltage	192Vdc					240Vdc	
SYSTEM FEATURES							
Transfer time	0 ms (Line mode → Battery mode)						
Overload	110%≤Load≤150%/1min; > 150%/200ms, to Bypass						
LED display	Battery low, Mains status, Inverter, Bypass, UPS failure, Overload						
LCD display	I/O voltage, Frequency, Battery voltage, Load percentage, Internal temperature						
Communication interface	RS232, RS485, EPO, Dry contact, SNMP (Optional)						
ENVIRONMENTAL							
Operating temperature	0 ~ 40℃						
Storage temperature	-25 ~ 55℃						
Humidity range	0 ~ 95% (Non-condensing)						
Altitude	<1500m						
Noise level	<60dB					<65dB	
PHYSICAL							
Dimension W × D × H (mm)	305 × 585 × 864					350 × 650 × 1050	
Net weight (kg)	100	110	115	130	145	205	255
Shipping weight (kg)	110	120	125	140	155	220	270
STANDARDS							
Safety	IEC/EN 62040-1; IEC 62477-1						
EMC	IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2)						
Performance	IEC/EN 62040-3						

\* With optional filter

1. Specifications are subject to change without prior notice 2. Data above are typical values for reference only, not as a basis for engineering design

## ORDERING INFORMATION

Part No.	Description
NTV6MS	6KVA, 3:1 Ph, PF0.8 transformer UPS, with energy backfilling protection function, Touch screen
NTV8MS	8KVA, 3:1 Ph, PF0.8 transformer UPS, with energy backfilling protection function, Touch screen
NTV10MS	10KVA, 3:1 Ph, PF0.8 transformer UPS, with energy backfilling protection function, Touch screen
NTV15MS	15KVA, 3:1 Ph, PF0.8 transformer UPS, with energy backfilling protection function, Touch screen
NTV20MS	20KVA, 3:1 Ph, PF0.8 transformer UPS, with energy backfilling protection function, Touch screen
NTV30MS	30KVA, 3:1 Ph, PF0.8 transformer UPS, with energy backfilling protection function, Touch screen
NTV40MS	40KVA, 3:1 Ph, PF0.8 transformer UPS, with energy backfilling protection function, Touch screen