

NETCON 800 Series UPS

1:1 Phase PF 0.8, 1~20 KVA



Netcon 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: 165~275Vac, 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

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

► Strong protection for load

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

► Comprehensive and reliable protection

Self-diagnosis function before start-up, avoid the risks that the failure may lead to:

The multi-protections such as overload, short-circuit, over-temperature, battery under voltage, battery overcharge and so on greatly ensure the system stability and reliability. Built-in static electronic bypass switch, when UPS fails, it can transfer to bypass mode and continue to provide power for load by AC.

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

► User-friendly network management

Communication with computer can be realized by RS232 with corresponding monitoring software. The various parameters can be shown on the communication interface.

External is optional The UPS with remote network management capability can provide real-time data for communication and management through a variety of network management systems.

Technical Specifications

MODEL	NTGP801L	NTGP802L	NTGP803L	NTGP804L	NTGP801L	NTGP801L	NTGP801L	NTGP801L	NTGP801L	NTGP801L
Capacity	1kVA/0.8kW	2kVA/1.6kW	3kVA/2.4kW	4kVA/3.2kW	6kVA/4.8kW	8kVA/6.4kW	10kVA/8kW	12kVA/9.6kW	15kVA/12kW	20kVA/16kW
INPUT										
Nominal voltage	220/230Vac									
Operating voltage range	165 ~ 275Vac									
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%)									
Crest factor	3:1 (Max)									
Efficiency	82%		84%				85%			
Harmonic distortion (THDv)	≤2% (Linear load)									
BATTERY										
Battery voltage	48Vdc or 192Vdc				192Vdc					
SYSTEM FEATURES										
Transfer time	0 ms (Line mode → Battery mode)									
Overload	110%≤Load≤150%/1min; > 150%/200ms, to Bypass									
Communication interface	RS232, RS485 (Optional), EPO (Optional), Dry contact (Optional), 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)	230 × 580 × 720 (S)/250 × 500 × 635 (H)					250 x 500 x 635		305 x 585 x 864		
Net weight (S/H) (kg)	80/32	85/36	99/40	102/45	108/50	60	65	115	130	145
Shipping weight (S/H) (kg)	88/40	93/44	107/48	110/53	116/58	68	73	125	140	155
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

Model No.	Description
NTGP801L	Netcon 1kVA/0.8 KW 1:1 phase PF: 0.8, 50/60Hz, with robust Output Isolation transformer UPS
NTGP802L	Netcon 2kVA/1.6 KW 1:1 phase PF: 0.8, 50/60Hz, with robust Output Isolation transformer UPS
NTGP803L	Netcon 3kVA/2.4 KW 1:1 phase PF: 0.8, 50/60Hz, with robust Output Isolation transformer UPS
NTGP804L	Netcon 4kVA/3.2 KW 1:1 phase PF: 0.8, 50/60Hz, with robust Output Isolation transformer UPS
NTGP806L	Netcon 6kVA/4.8 KW 1:1 phase PF: 0.8, 50/60Hz, with robust Output Isolation transformer UPS
NTGP808L	Netcon 8kVA/6.4 KW 1:1 phase PF: 0.8, 50/60Hz, with robust Output Isolation transformer UPS
NTGP810L	Netcon 10kVA/8k KW 1:1 phase PF: 0.8, 50/60Hz, with robust Output Isolation transformer UPS
NTGP812L	Netcon 12kVA/9.6 KW 1:1 phase PF: 0.8, 50/60Hz, with robust Output Isolation transformer UPS
NTGP815L	Netcon 15kVA/12 KW 1:1 phase PF: 0.8, 50/60Hz, with robust Output Isolation transformer UPS
NTGP820L	Netcon 20kVA/16 KW 1:1 phase PF: 0.8, 50/60Hz, with robust Output Isolation transformer UPS

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