

Pole / Wall Mount Outdoor UPS

Nominal Voltage: 240VAC

Nominal Frequency: 50/60HZ



Wide input
Range

Power
Factor

Double
Conversion

Selectable
Output

Interface
(optional)

Netcon's Pole Mount Outdoor UPS is designed to provide reliable backup power for outdoor applications such as telecom towers, surveillance systems, traffic management, and IoT infrastructure. It is built to withstand harsh environmental conditions, ensuring uninterrupted operation in extreme weather.

Features:

- | The drawer-type control unit is easier to install and maintain.
- | Boost and buck AVR for voltage stabilization.
- | Auto restart while AC is recovering.
- | Excellent microprocessor control optimizes reliability.
- | Lightning protection.
- | Built-in Network Monitor Card for remote monitoring.
- | Built-in super smart charger, shorten charging time.
- | Weatherproof & Rugged Design – IP-rated enclosure for protection against dust, water, and extreme temperatures.
- | Lithium-Ion or VRLA Battery Options – Offers flexibility based on power backup requirements.
- | Easy Installation & Maintenance – Designed for quick deployment on poles or walls.



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Technical Specifications:

Model	NTW110	
Capacity	1kVA/0.8kW	
Input		
Nominal Voltage	208/220/230/240VAC, L+N+PE	
Voltage Range	100-300VAC	
Frequency	40-70Hz	
Power Factor	>0.90	
THDi	≤4% (linear load); ≤5% (non-linear load)	
Output		
Nominal Voltage	208/220/230/240VAC, L+N+PE	
Voltage Regulation	±1%	
Frequency	50/60Hz±0.1%	
Crest Ratio	3:1	
THDu	≤2% (linear load); ≤5% (non-linear load)	
Transfer Time	Line mode to battery mode, 0ms; inverter to bypass, 4ms (typical)	
Waveform	Pure sine wave	
Overload Time	Line mode: 30min@102%-110% load 10 min@110-130% load 30s@130%-150% load 200ms@>150% load	Battery mode: 1min@102%-110% load 10s@110-130% load 3s@130%-150% load 200ms@>150% load
Efficiency		
Line Mode	94.5%	
Battery Mode	88.5% (36VDC)	
ECO Mode	98%	
Battery		
Type	Lithium-Ion / VRLA battery	
Voltage	36VDC	
Battery Number	8Ah*3pcs Internal	
Charging Current	4A	
Charging Mode	Two/Three-period charging	
Management		
Intelligent Port	RS232/USB port/SNMP card (optional)/Dry contact kit (optional)	
Environment		
Operation Temperature	0-55°C	
Relative Humidity	0-95% (non-vcondensing)	
Noise	<50dB@1 meter	
Altitude	Up to 1000m without derating	



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The outdoor UPS system has good protection function: such as heat insulation, dust-proof, damp proof, waterproof etc.

► Double conversion on line technology, which enables the UPS to provide a pure sine wave voltage, with constant frequency, constant voltage, low noise and no interruption, no matter the utility power fluctuation. It protects the user's equipment ideally all the time.

► The system has one door; you can open the front door to operate the system. There are two layers inside the system, the first layer is used to hold batteries; The second floor installation lightning protection device, power distribution equipment etc. The UPS module is hanged on the door.

► This UPS is a precision piece of equipment with 16 bit microprocessor and advanced software programming technology. High frequency SPWM is created to control the inverter of UPS. The simplified control circuit, enhances the stability of UPS and real-time performance. That makes UPS respond the variety of external environment rapidly and ensures the control is compact and reliable.

► Advanced voltage compensation technique, makes the input voltage range from 115VAC to 295VAC, using batteries less, enhancing the adaptability against the bad power condition.

► Advanced wide input frequency technique, makes the input frequency range from 45Hz to 55Hz, compatible with generator under variable circumstance.

► The advanced PFC technology, improves the input power factor close to utility, raises the power efficiency, removes the harmonic noise from UPS to utility, lowers UPS operational cost, it's really a good environmental protection power supply.

► Standard bypass function, when the UPS faults, it can transfer to bypass mode and provide alarm signal.

► Smart management function. If main power blackout, ups will transfer to backup mode to supply loads. When battery voltage is low, ups would protect itself and shuts down. When the main power recovers, the UPS would check the main power itself, if the main power is also normal, ups would turn on automatically to supply loads; if main power is abnormal, UPS would just turn on charger to charge the battery until the main power is normal.

► DC start function, when there is no main power; UPS can be turned on by battery, to meet the user's emergency needs. The cold start function is quite strong. UPS can be cold started on full load situation.



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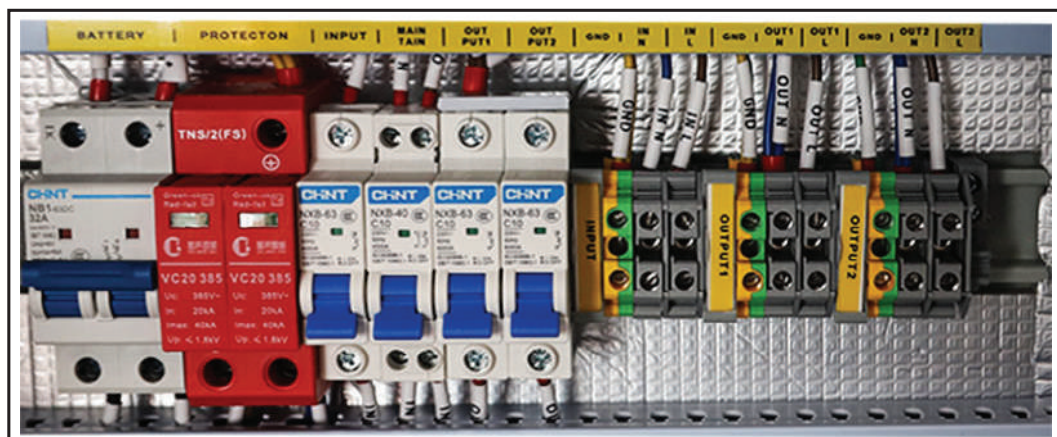
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Product structure Diagram



ORDERING INFORMATION

Part Number	Description
NTW110	Netcon, 1 KVA Outdoor UPS, PF 0.9, 1 PH, 240V AC, supports Lithium Ion and VRLA batteries, option of Pole / Wall mount type



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