

CONSNANT[®]

Integrated

Outdoor Online UPS 1-10KVA

CNW110 Series


GREEN
ENERGY SAVING
ENVIRONMENTAL
PROTECTION



Integrated Outdoor Online UPS 1-10KVA with Lead-acid Battery

CNW110 Series

Telecom Traffic Lights Local Area Networks CCTV



Product snapshot:

Model: 1-10KVA
Nominal voltage: 220/230/240VAC
Nominal frequency: 50/60Hz
Output power factor: 0.8/0.9



Application:

This UPS is commonly used in corners of the city, remote roads, mountains, bad environments such as high temperature (up to +50°C), low temperature (down to -40°C), severe dust, moisture, rain, mist erosion, and areas with very poor power quality (the voltage has been higher than 260V or lower than 160V for a long time, and the frequency has changed abnormally).

Reliable power supply:

CNW110 series communication edge network outdoor UPS is a high-performance integrated outdoor online uninterruptible power supply system specially designed for wireless communication system of outdoor microcellular base station, which has high technological advancement and practicability.

CNW110 SERIES



High Reliability of the UPS System

- Using microprocessor to control the UPS inverter that works on sinusoidal pulse width modulation (SPWM), simplifying the UPS control circuit, improving the stability, and achieving more real-time capability to quickly respond to changes in the external environment and ensure that the machine's control circuit is simpler and more reliable.

Robust Outdoor Structure

- Fine IP55/56 dustproof and waterproof design.
- Galvanized sheet ensures excellent corrosion resistance.
- With sun protection, heat insulation, roof ventilation.
- Special outdoor powder coating, high temperature and corrosion resistance.

Environmental Adaptability

- Wide input voltage, avoiding frequent switching to battery power supply due to excessive grid voltage, reducing the probability of battery failure, and adapting to the power environment in poor areas.
- The input frequency range is 45~55Hz, ensuring stable operation when connected to various fuel generators, and meeting the user's requirements for fuel engines.

Optional Accessories (Air-conditioner / Heat-exchanger)

We use air-conditioner / heat-exchanger to effectively reduce the temperature inside the cabinet and improve the IP protection level.

Heater and Temperature Controller

In response to low temperature climate impact on batteries and UPS, we adopt adjustable heating device to ensure lifespan of the UPS and battery in normal use.

TECHNICAL SPECIFICATIONS

Model	CNW110-1KVA	CNW110-2KVA	CNW110-3KVA	CNW110-6KVA	CNW110-10KVA
Capacity	1KVA/0.8KW	2KVA/1.6KW	3KVA/2.4KW	6KVA/4.8KW	10KVA/8KW
Nominal Voltage	220/230/240VAC				
Frequency	50Hz/60Hz				
Input					
Voltage Range	115~295VAC (±3VAC)			176~297VAC (±3VAC)	
Frequency Range	50Hz (46~54 Hz); 60Hz (56~64 Hz)				
Soft Start	0~100% 5sec				
Power factor	0.98				
Output					
Voltage Precision	220/230/240VAC x (1±2%) VAC				
Frequency Precision	50Hz/60Hz ±0.05Hz				
Power Factor	0.8/0.9 (optional), standard 0.8				
Wave Distortion	Linear load <3%, Non-linear load <6%				
Overload Capability	Overload (110~150%) for 30 seconds, automatically transfer to bypass. When the load is back to normal, it can automatically transfer to online mode.				
Crest Factor	3:1				
Transfer Time	0ms (AC to DC)				
DC Supply Voltage	36VDC	72VDC	96VDC	192VDC	240VDC
Charging Current	4A/8A (optional)	4A/8A (optional)	4A/8A (optional)	4.2A	4.2A
Internal Battery Capacity	(38/65/80/100AH) optional				
Panel Display					
LCD	Load level, Battery level, Battery indicator, Utility power, Inverter, Bypass, Overload, Fault				
Communications					
Communicate Interface	RS232, SNMP card (optional)				
Work Environment					
Temperature	-40°C~55°C				
Humidity	0~95% (Non-condensing)				
Storage Temperature	-25°C~55°C				
Elevation	<1500m				
Physical Characteristics					
Net Weight (without battery)	85KG	125KG	125KG	150KG	150KG
Dimensions: (WxDxH)mm	613*640*954	650*753*1227	650*753*1227	940*940*1770	940*940*1770

STANDARD: Conform to GB/IEC regulation: EMC: GB7260.2/IEC62040-2 -GB/17626.2 ~ 5/IEC61000-4-2 ~ 5 SAFETY:GB4943

Note: Product specifications are subject to change without further notice.

