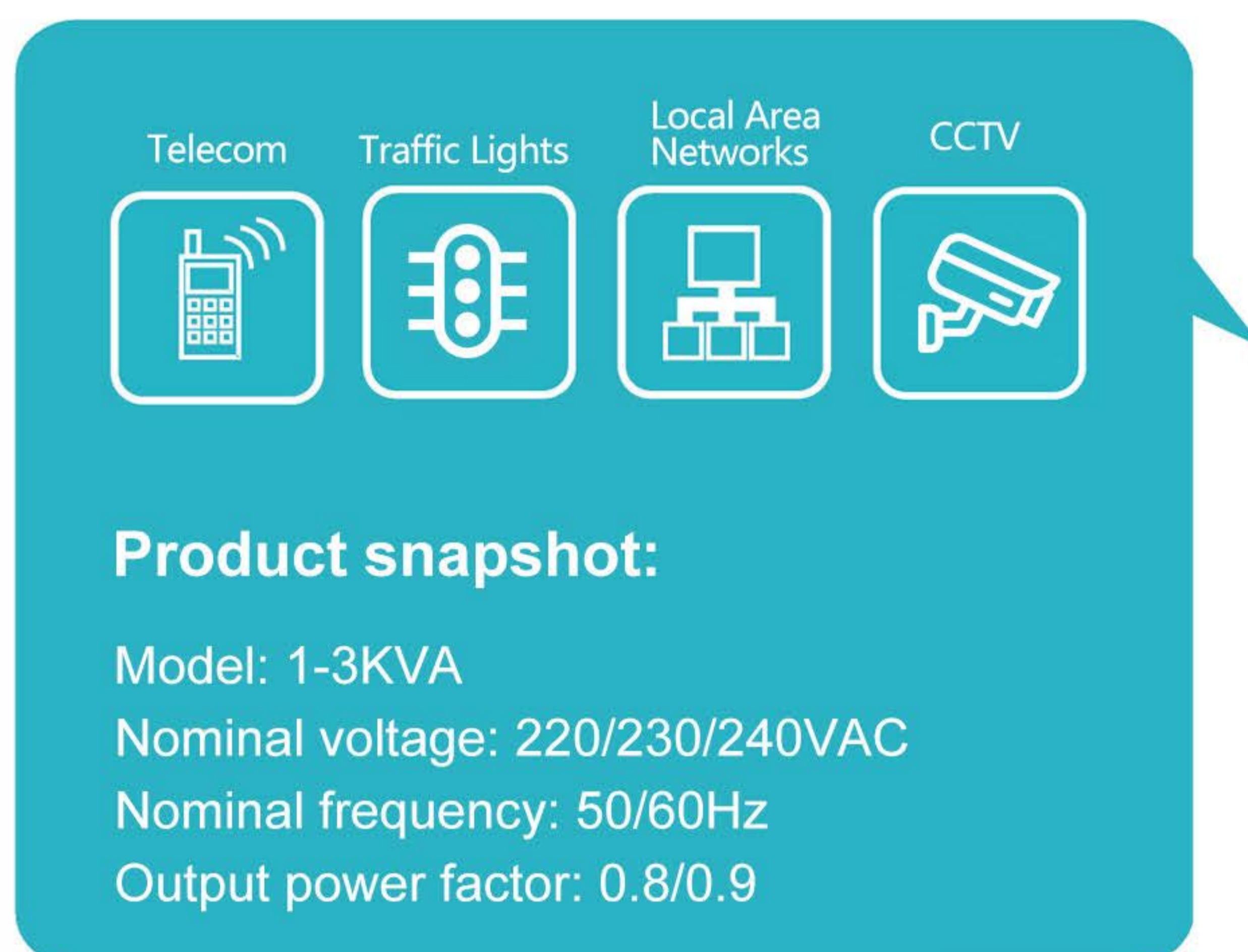


GREEN  
**ENERGY SAVING**  
ENVIRONMENTAL  
**PROTECTION**



# Integrated Outdoor Online UPS 1-3KVA with Lithium Battery

CNW110L Series



Telecom    Traffic Lights    Local Area Networks    CCTV

**Product snapshot:**

Model: 1-3KVA  
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).

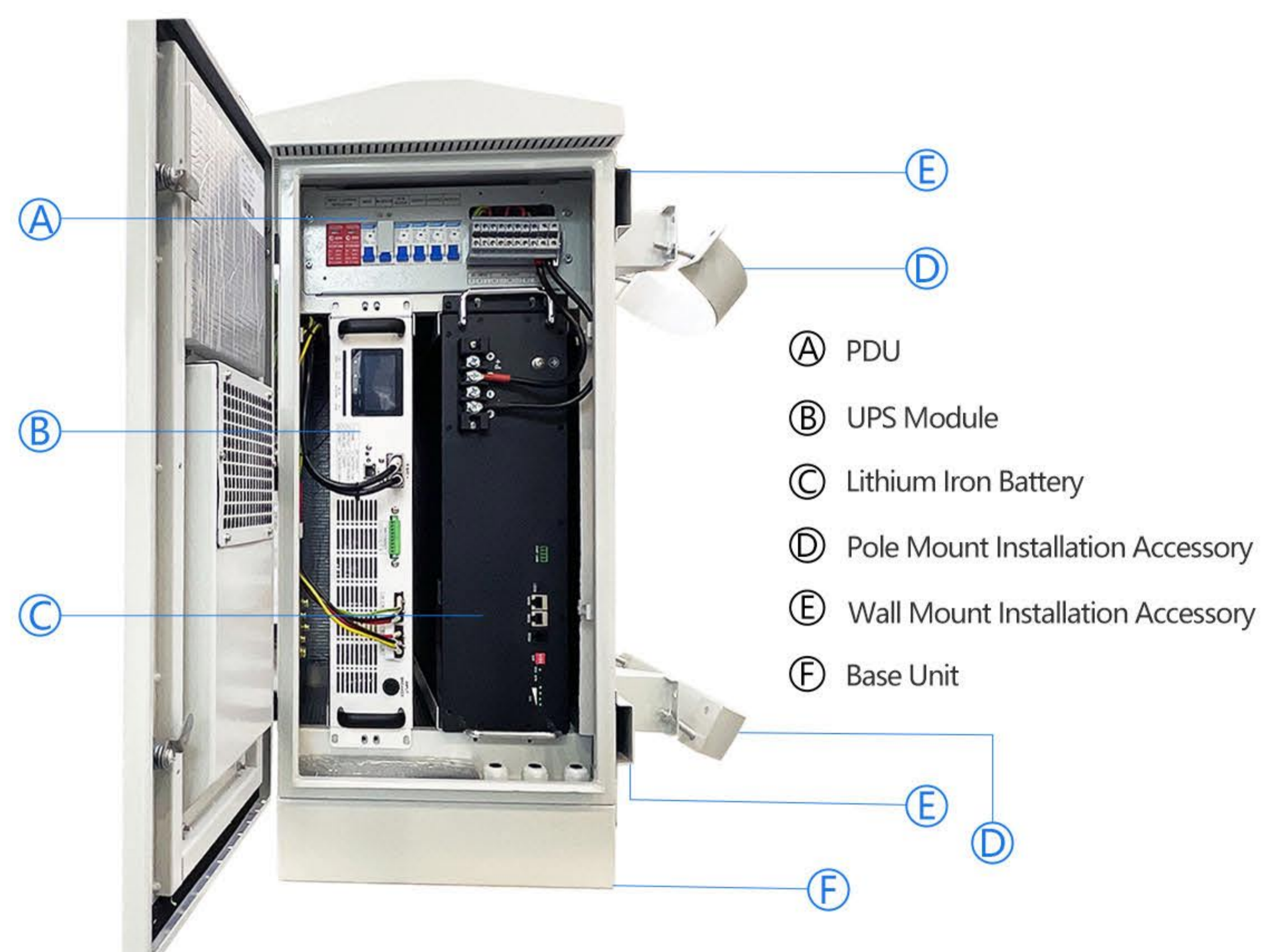
## Reliable power supply:

CNW110L 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.

# CNW110L SERIES

## Key Features:

- The CONSNANT Outdoor Intelligent High Frequency Online UPS provides continuous pure sine wave AC power supply for outside communication/network equipment.
- Double-conversion online design, high temperature resistance, low temperature resistance, sealing level IP55; With a wide range of input voltage and frequency input window (-45% ~ +35% rated voltage and  $\pm 10\%$  rated frequency), suitable for many remote areas where the power grid is under going severe test.



## 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	CNW110L-1KVA	CNW110L-2KVA	CNW110L-3KVA
Capacity	1KVA/0.8KW	2KVA/1.6KW	3KVA/2.4KW
Nominal Voltage	220/230/240VAC		
Frequency	50Hz/60Hz		
<b>Input</b>			
Voltage Range	115-295VAC ( $\pm 3$ VAC)		
Frequency Range	50Hz (46-54 Hz); 60Hz (56-64 Hz)		
Soft Start	0-100% 5sec		
Power Factor	0.98		
<b>Output</b>			
Voltage Precision	220/230/240VAC X ( $1 \pm 2\%$ )VAC		
Frequency Precision	50Hz/60Hz $\pm 0.05$ Hz		
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	0 ms (AC to DC)		
DC Supply Voltage	48VDC	48VDC	48VDC
Charging Current	4A/8A (optional)	4A/8A (optional)	4A/8A (optional)
<b>Internal Battery Capacity</b>			
Internal Battery Capacity	LifePo4 battery pack 48VDC 50AH or 48VDC 100AH		
<b>Panel Display</b>			
LCD	Load level, Battery level, Battery indicator, Utility power, Inverter, Bypass, Overload, Fault		
<b>Communications</b>			
Communicate Interface	RS232, SNMP card (optional)		
<b>Work Environment</b>			
Temperature	-40 °C~55 °C		
Humidity	0-95% (Non-condensing)		
Storage Temperature	-25 °C~55 °C		
Elevation	<1500m		
<b>Physical Characteristics</b>			
Net Weight (without battery)	85KG	85KG	85KG
Dimensions: (WxDxH)mm	542*332*626	542*332*626	542*332*626