







CNW4850L Series Technical Specifications

Model	CNW4850L-3KW		CNW4850L-3KWL	CNW4850L-5KW
Inverter				
Output voltage waveform	Pure sine wave			
Rated output power (W)	3000	3000	5000	
Rated output voltage(Vac)	230	120	230	
Power factor	1			
Output frequency range	50Hz ± 0.3Hz / 60Hz ± 0.3Hz			
Bypass circuit breaker	63A			
Rated battery input voltage	48V (minimum starting voltage 44V)			
Battery voltage range	48VDC			
Operating temperature range	-15°C to 55°C			
Storage temperature range	-25°C ~ 60°C			
Communication interface	USB/RS485 (WiFi/GPRS)/Dry Node Control			
Dimensions (L*W*D)	482*425*133mm			
Weight (kg)	13.3			
AC Charge				
Battery type	Lithium Battery			
Maximum charge current	0-60A	0-40A	0-60A	
Charge voltage range	40 - 58Vdc	40 - 60Vdc	40 - 58Vdc	
Overcharge protection	Alarm and turn off charging in 1 minute.			
DC Charge				
Maximum PV open circuit voltage	145Vdc			
PV operating voltage range	60-145Vdc			
MPPT voltage range	60-115Vdc			
Battery voltage range	40-60Vdc			
Maximum output power	4200W			
PV charge current range (settable)	0-80A			
Lithium Battery Pack				
Rated Capacity	50Ah	Nominal Voltage	48VDC / 51.2VDC	
Cell Resistance 1Khz	≤0.8mΩ	Charge Voltage	3.65V	
Working environment temperature	Charge: 0℃~55℃ Discharge: -10℃~55℃	Elevation	Less than 2000m	
Cycle life	2500cycles≥80%			

STANDARD: Conform to GB/EC regulation: EMC:GB7260.2/EC62040-2 -GB/17626.2~5/EC61000-4-2~5 SAFETY:GB4943
 Note: Product specifications are subject to change without further notice.

Integrated outdoor solar power system
 3KW/5KW 2.56KWH

CNW4850L
 Series

GREEN
 ENERGY SAVING
 ENVIRONMENTAL PROTECTION





CNW4850L Series

Integrated outdoor solar power system
3KW/5KW 2.56KWH



Product snapshot:

Model: CNW4850L
Nominal voltage: 120/230VAC
Nominal frequency: 50/60Hz
Output Power factor: 1



Cooling System
PDU

Lithium Battery Pack 48VDC 50Ah

Horizontal Type All-in-one Solar Charger Inverter

Inlet and outlet holes

Characterization:

- The whole system integration includes an off-grid solar inverter module, lithium iron phosphate battery pack, PDU, and outdoor cabinet.
- The system is commonly used in the corner of the city, remote roads, mountains, bad environments, dust, moisture, rain, mist-erosion, very poor power quality in the area.
- The system provides a continuous pure sine wave AC power supply for outside communications/network equipment.

Environmental Adaptability

- Wide input voltage, avoids frequent switching to battery power because of large power grid voltage, reduce battery failure probability, adapt to the power environment in poor areas.
- The environment which require higher IP level, we use heat exchanger to effectively reduce the temperature of box inside and improve IP protection level .

Key Feature:

- It adopts full-digital double closed-loop control, combined with advanced SPWM technology to output pure sine waves.
- Two output modes: mains electricity bypass and inverter output; uninterrupted power supply.
- Four charging modes: PV Only, Mains Electricity Priority, PV Priority, and PV&Mains Electricity hybrid charging.
- Advanced MPPT technology with 99.9% efficiency.
- Comes with an LCD display and 3 LED indicators that can clearly indicate the status and data.
- Power saving mode, reduce no-load loss.



- Intelligent variable-speed fan to efficiently dissipate heat and extend system lifespan.

- It comes with double lithium battery activation modes: mains and PV, and supports lithium battery access.

- All-round protection for solar panels includes overload and short circuit protection, under-voltage and over-voltage protection, and reverse polarity protection.

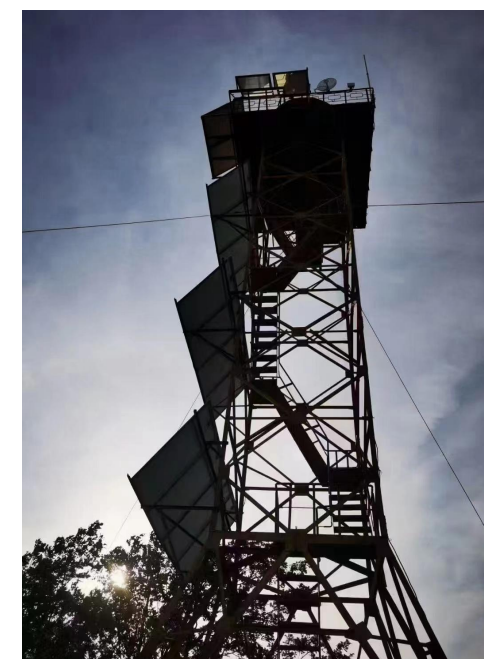
- With sun protection, heat insulation, roof ventilation.

- With waterproof and the filtration dust inlet.

- The cabinet body is designed for the IP55 protection level. The cabinet front door shutters with waterproof design, on the back of welding outdoor cabinet.

- Modular design is easy to maintain.

- System configuration AC and DC lightning protection.



Remark:

- Long-term storage of the battery needs to be placed in a dry, clean, dark, and well-ventilated indoor environment. The suitable storage temperature range is -20~35° C.
- Batteries must be stored and transported in a state close to 50% SOC.
- For long-term storage, the electricity needs to be cycled every 6 months.
- When loading and unloading the battery during transportation, please be careful not to drop it, do not stack it over 4 layers, or place it upside down, and ensure that the front is facing up.

