

Off Grid Solar Inverter
CNS110
Series

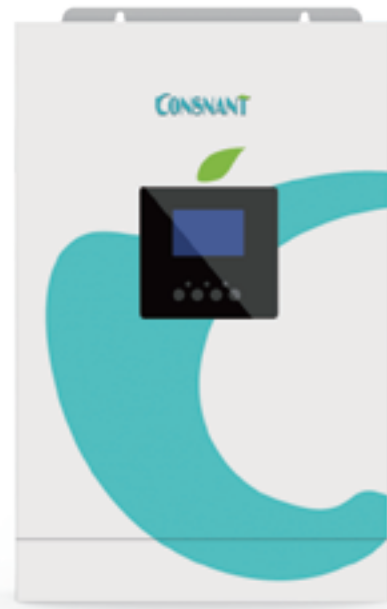


CONSNANT

Constant Electric Power
www.consnant.com



CNS 110 OFF-GRID INVERTER



PERFORMANCE AND FUNCTIONALITY

- Pure sine wave off-grid type optical storage integrated machine
- Output power factor 1
- Up to 6 units can be Paralleled
- Wide PV input voltage range (120–500VDC)
- It can work normally without a battery
- Built-in 100A MPPT solar charger
- Battery balancing feature optimizes battery performance and extends life
- Built-in dust screen for use in harsh environments

SCENARIOS

Mainly used in household solar power generation, used to drive household small power load of electrical appliances.



Farm



Family



Outdoors



Villa



COMSAT Station



Grassland

PRODUCT PARAMETERS

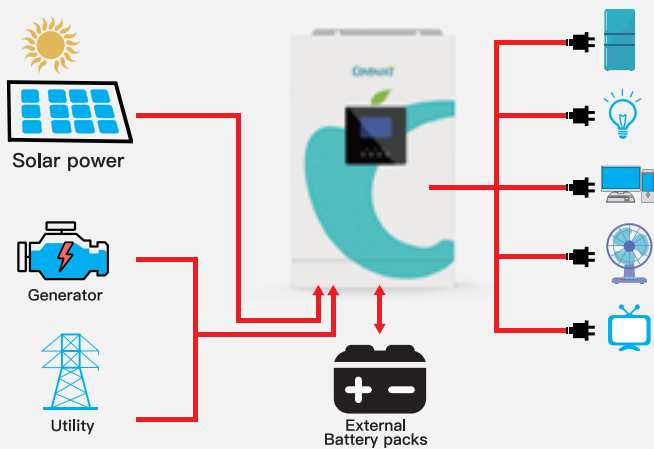
Model	CNS110 3500–24	CNS110 5500–48
Rated power	3500VA/3500W	5500VA/5500W
Input		
Voltage	230VAC	
Voltage range	170–280VAC (Suitable for personal computers) 90–280VAC (Suitable for household appliances)	
Frequency range	50Hz/60Hz (Automatic adaptation)	
Output		
Grid voltage regulation (battery mode)	230VAC±5%	
Surge power	7000VA	11000VA
Peak Efficiency	>93.6%	
Switch time	10ms	
Waveform	Pure sine wave	
Battery		
Battery voltage	24VDC	48VDC
Float charge voltage	27VDC	54VDC
Overcharge protection	33VDC	63VDC
PV Charge & AC Charge		
PV maximum open circuit voltage	500VDC	500VDC
PV maximum power	5000W	6000W
Maximum AC charge current	80A	80A
MPPT operating voltage range	120VDC–450VDC	120VDC–450VDC
Maximum PV charge current	100A	100A
Physical properties		
Size(mm)	300*110*462	
Net weight (kg)	10.5	11.5
Communication interface	USB/RS232 (Standard) WiFi (Optional)	
Environment		
Humidity	5% to 95% Relative humidity (non-condensing)	
Operating temperature	–10℃–50℃	
Storage temperature	–15℃–60℃	



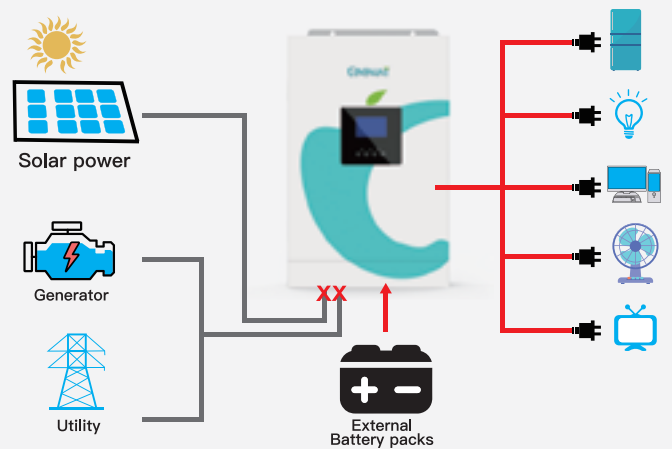
SYSTEM DIAGRAM

OPERATION WITH BATTERY CONNECTED

1 Solar Power and AC Power available

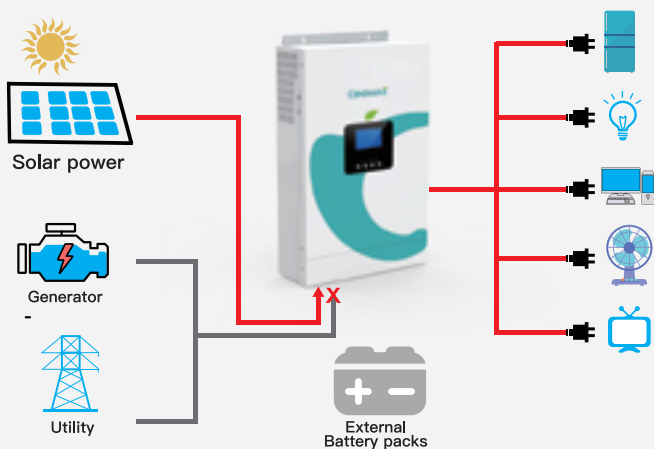


2 Solar Power and AC Power not available

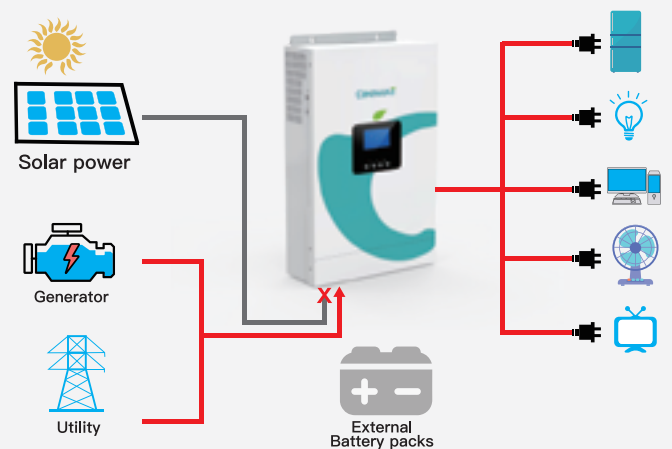


OPERATION WITHOUT BATTERY CONNECTED

3 Solar Power available



4 AC Power available



PARALLEL FUNCTION

- Single phase output up to 33KW using 6 units



- Three phase output using either 3units (16.5KW) or max 6units (33KW)

