

# CNB150 series 24VAC 150W Inverters



- Small Size solution to supply 24vac.
- Power rating : 150W
- Input voltage options: 12VDC 24VDC 48VDC
- Output voltage: 24VAC 50Hz Pure Sinewave
- Numerous applications in security and control systems



## Model Selection Table

Model Number	Description
CNB150-12	DC/AC Industrial Inverter Input: 12VDC ( 11VDC-14.5VDC) Output: 24VAC 150W 50Hz
CNB150-24	DC/AC Industrial Inverter Input: 24VDC ( 20VDC-30VDC) Output: 24VAC 150W 50Hz
CNB150-48	DC/AC Industrial Inverter Input: 48VDC ( 40VDC-60VDC) Output: 24VAC 150W 50Hz

## Description

The CNB150 series is a compact solution to convert low voltage dc to 24VAC to power 24VAC equipment up to 150W. The CNB150 series finds numerous applications in security systems , control systems etc. The output is a 24VAC pure sinewave.

## Specifications

<b>Output Power</b>	150W continuous (24VAC 6 Amps nominal)◇
<b>Input Voltage , Current</b>	12VDC Models: 10-15VDC Startup: 11- 14.5VDC 24VDC Models: 20-30VDC Startup: 22-29VDC 48VDC Models: 40-60VDC Startup: 44-58VDC
<b>Output Voltage / frequency</b>	24VAC / 50Hz
<b>Output voltage regulation</b>	+/- 10%
<b>Weight</b>	1.3 KG
<b>Dimensions</b>	L 247 * W 132 * H 68mm
<b>Isolation Voltage Input/Output</b>	100VDC
<b>Cooling</b>	Temperature controlled fan cooling
<b>Operating Temperature range</b>	-10 'C - 50 'C
<b>Safety Standards</b>	EN62368
<b>Protection</b>	Output short circuit Input reverse polarity Input undervoltage shutdown
<b>Efficiency</b>	Maximum 80%
<b>Standby power</b>	5W typical
<b>Input under voltage shutdwon</b>	12V input: Vin < 10VDC ±5%. Restart Vin > 11VDC◇ 24V input: Vin < 20VDC ±5%. Restart Vin > 22VDC 48V input: Vin < 40VDC ±5%. Restart Vin > 44VDC

## Installation

This inverter may be powered from any DC voltage source that can supply the required voltage and current, the connecting wire must of adequate size to assure a proper voltage and current is maintained at the input. The location of the inverter must be such that it meets all the requirements listed below and these requirement must be maintained during use:

- PLEASE BE CAREFUL WITH INPUT POLARITY , REVERSE POLARITY WILL DAMAGE UNIT WHICH IS NOT COVERED BY WARRANTY
- Inverter intended for indoor use only
- No direct sunlight or source of radiant heating falls on the inverter

- Keep away from a window that may be opened to avoid the possibility of rain falling on the unit
- No other source of heat in the immediate vicinity
- Please insure enough ventilation and there is no blockage of air flow around the inverter
- Mount securely to firm flat surface

The inverter does not require any maintenance, the only maintenance required is to wipe any accumulated dust or dirt which will block cooling of the device.

The inverter has no user serviceable parts.

## Troubleshooting

If the device being powered by the inverter is not operating correctly please check the following:

- Check to make sure proper power is available at the input terminals of the inverter
- Check that the power being supplied by the inverter to the load meets the load requirement. Measure the voltage at the inverter output and the load input and make sure it is the same value, otherwise there could be a bad connection between the inverter and load.

## Input Output Connection Picture



INPUT CONNECTION



OUTPUT CONNECTION

## Mechanical Drawing - CNB150

