

Let's talk!

DC-AC Converter INVR2000-24-230-K4

Inverter for Rail Applications

Specification

General

Insulation coordination EN 50124
Electrical safety overload- and short circuit protected

Electrical data

Input

Nominal input voltage $U_N = 24 \text{ V}_{\text{DC}}$
Voltage range 17 to 33 V_{DC}

Output

Nominal output voltage 230 V_{AC} , single-phase

Output frequency 50 Hz, sine wave
processor controlled

Voltage stability $\pm 5 \%$

Efficiency $> 88 \%$

Output power max. 2000 VA / 1600 W

Output current nominal 6.95 A

Short circuit current $I_{\text{sc}} \Rightarrow 18 \text{ A}$

Power factor 0.8

Load range 0 – 100 %

Crest factor > 2.5

Harmonic distortion $< 3 \%$

Overload capability 1.50 x P_{NOM} for 3 seconds

Restart after overload 3 times after 3 seconds, then after 60 seconds

Ambient conditions

Operating temperature -25°C to $+70^\circ\text{C}$, acc. to EN50155

Rel. humidity $< 75 \%$ average per year

Shock and vibration according to EN61373 B

EMC

according to EN50121-3-2



Picture may differ from actual device

Signals

Remote on/off potential-free, 16–34 V_{DC} / $< 10 \text{ mA}$

Signal contact single-pole switch,
max. 250 V_{AC} / 1 A

LED green power good
LED red overvoltage, fan failure, excess
temperature and short circuit

Mechanical data

Case material sheet steel, zinc-plated

Dimensions 460 x 300 x 120 mm (W x D x H)

Weight approx. 12 kg

Protection class IP 22

Mounting position horizontal and vertical

Cooling forced ventilation,
temperature-controlled

Connecting terminals

Input DC: -X1 Phoenix PC 35, 3-pole

Remote on/off: -X2 Phoenix DFK MC1.5, 6-pole

Signal: -X2.1 Phoenix DFK MC1.5, 6-pole

Output AC: -X3 Phoenix PC4, 6-pole

Order Code INVR2000-24-230-K4

Warranty 24 months

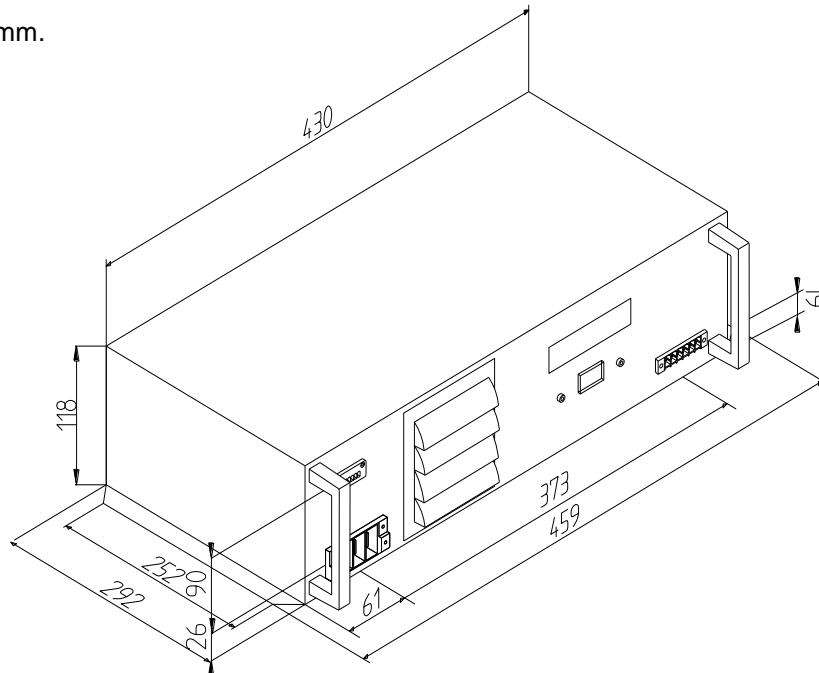
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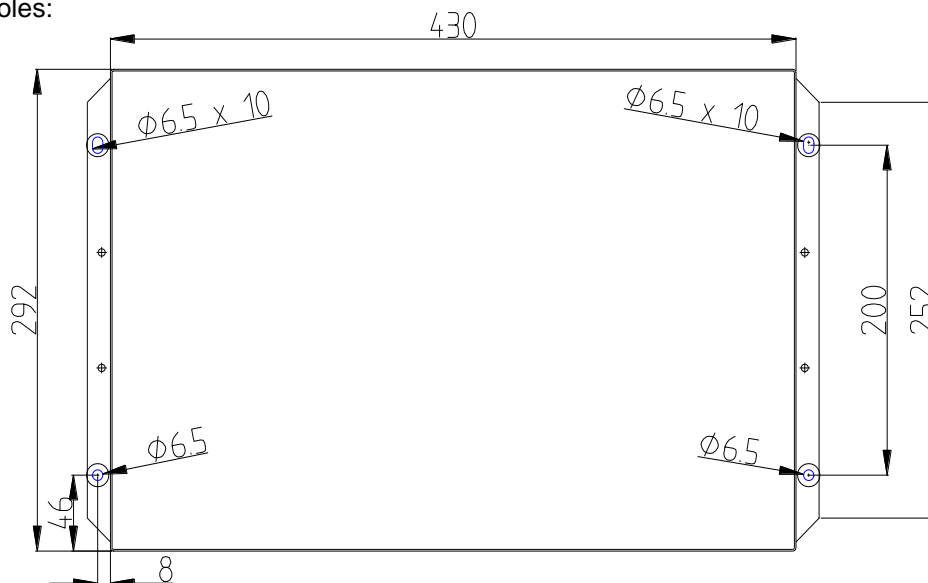
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Mechanical data

All dimensions in mm.



Mounting holes:



In order to fasten the device, self-locking nuts must be used. These nuts must be tightened to a maximum torque of 8 Nm.