

Let's talk!

DC-AC Converter INVR2000-24-230-K6

Inverter for Rail Applications

Technical Data

General

Insulation coordination	according to EN 50124-1
Electrical safety	overload- and short-circuit protected
Efficiency	> 88 %
Galvanic isolation	3.75 kV _{AC}
Railway applications	according to EN 50155

Electrical data – Input DC

Nominal voltage	U _{NOM} = 24 V _{DC}
Voltage range	19 – 31 V _{DC}

Electrical data – Output AC

Nominal voltage	230 V _{AC} , single-phase, floating
Fault tolerance	+/-5 %
Frequency	50 Hz, sine wave processor-controlled
Maximum output power	2000 VA / 1600 W
Short-circuit current	I _{SC} = 17 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	3x after 3 seconds, then after 60 seconds

Ambient conditions

Operation temperature	-25°C to +70°C, non-condensing
Relative humidity	< 75 % as an annual average
Shock and vibration	according to EN 61373 cat. 1B

EMC

according to EN 50121-3-2

Operation

Remote on/off	via optocoupler, U _R = 16 – 34 V _{DC} , < 10mA, reverse polarity protection
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Signalling

Electrical	1 x potential-free alarm contact, contact load: max. 31 V _{DC} , 1 A
Visual	LED green: „Power Good“; LED red: overload, short-circuit on the output, excess temperature, fan fail and AC OVP/UVP; LCD dot matrix display



Picture may differ from actual device

Housing

Dimensions	19", 3 U, depth 290 mm
Weight	approx. 11 kg
Classification	IP 20
Cooling	forced air cooling, temperature-controlled

Electrical connections

Input DC: -X1	Phoenix PC 35HC/3-GF-15, 3-pole
Remote on/off: -X2	Phoenix MC1,5/6-GF-3,81, 6-pole
Signal: -X2.1	Phoenix MC1,5/6-GF-3,81, 6-pole
Output AC: -X3	Phoenix PC4/6-G-7,62, 6-pole
Earth bolt	M6

Order Code

INVR2000-24-230-K6

Warranty

24 months

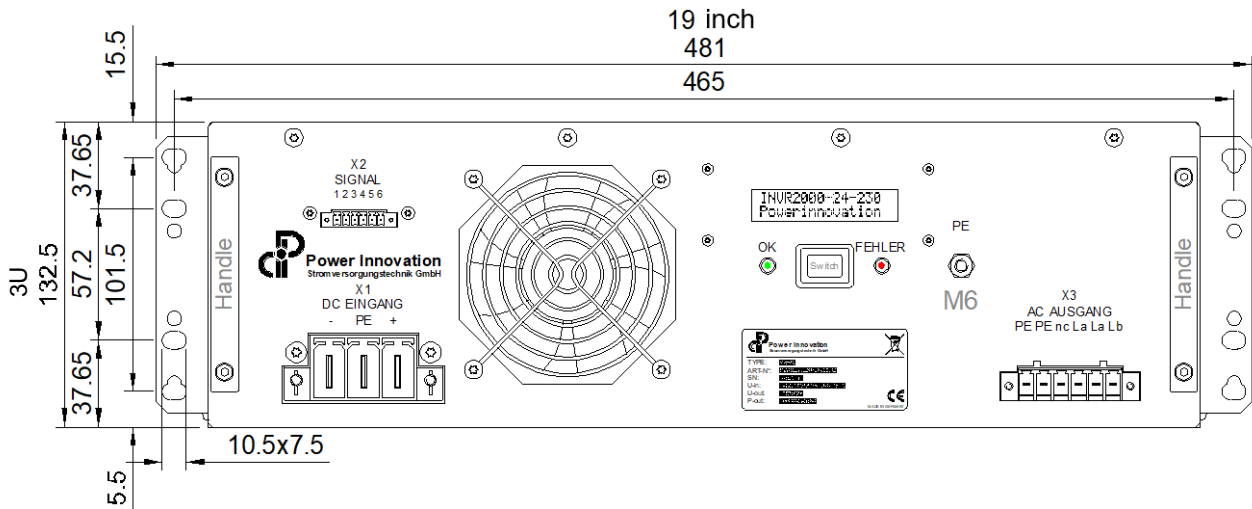
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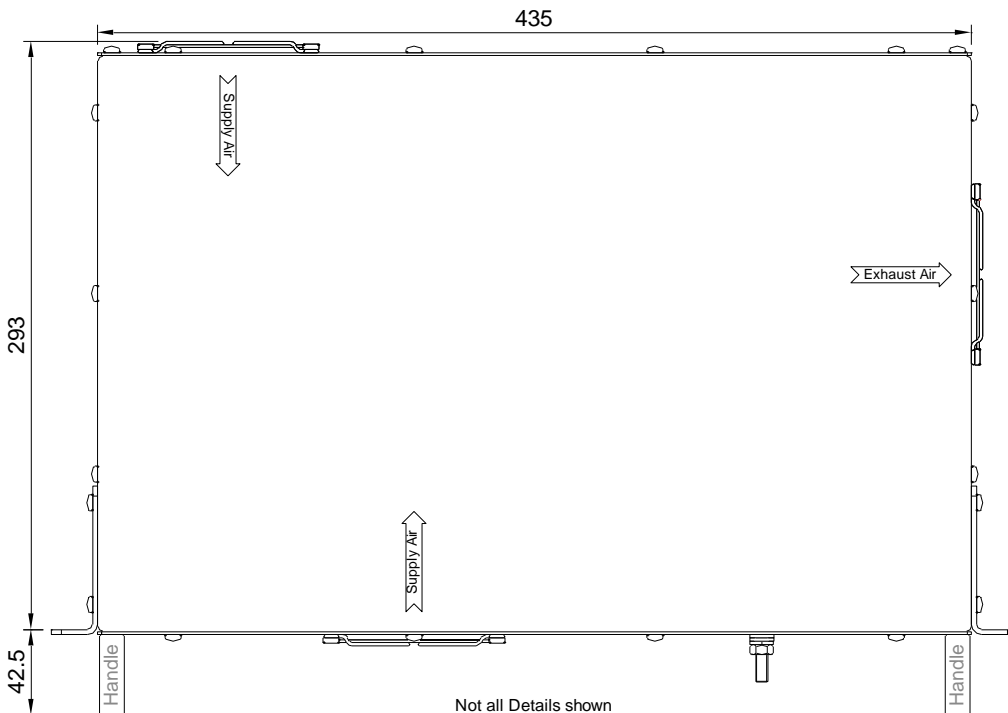
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Mechanical data

All dimensions in mm.



Front view



Top view

Subject to change without notice.

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Version 1.0

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