

Let's talk!

DC-AC-Converter INVR6000-110-230-K1

Inverter for Sub-Chassis mounting in Rail Applications

Specifications

General

Electrical safety	according to EN50124 overload and short-circuit proof
Efficiency	> 88 % at nominal load
Electrical isolation (primary/secondary)	3.75 kV _{DC}
EMC (emission)	according to EN50121-3-2, additional EMC according to specification A6Z00031726842A
Operating temperature	-40°C to +60°C, according to EN50155 Category T2
Relative humidity	according to EN50155
Shock and vibration	according to EN61373 / Gost 17516.1



Picture may differ from actual device

Input DC

Nominal voltage	$U_N = 110 \text{ V}_{DC}$
Voltage range	$77 - 154 \text{ V}_{DC} (0.7 - 1.4 \times U_N)$

Output AC

Nominal voltage	230 V _{AC} , 1-phase, "floating"
Voltage stability	+/- 5 %
Frequency	50 Hz, sine wave processor controlled

Max. output power	6000 VA / 3600 W
Output current	nominal 21 A
Short-circuit current	$I_{sc} = 50 \text{ A}$
DC Offset	+/-50 mV
Power factor	+0.6 ... -0.6
Load range	0 - 100 %
Crest factor	> 2
Harmonic distortion	< 3 %
Overload capability	1.5 x P _{Nom} for 60 seconds 2 x P _{Nom} for 10 seconds

3 x restart after overload shutdown	after 120 seconds
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Signals

Control voltage	110 V _{DC} , 0.5 A +/-30 %
Signal voltage	18 - 150 V _{DC} , 5 mA
Signal inputs	3 potential-free inputs
Signal outputs	6 x 1-pole relay (ohmic load), max. current 0.2 A at 110 V _{DC} , max. voltage 150 V _{DC}

Display	7 segment, 4-digit, specifically for use at low temperatures
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LAN	IEEE 802.3™ compatible Ethernet Controller, 10/100Base-T Port, compatible with 10/100/1000Base-T, supported network protocols: IPv4, http, DHCP, NTP, ICMP
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Operation

Control	DC relay for ON/OFF function of the inverter
Keys	„i“ for information, „P“ for test run, „L“ for manual restart / reset
Web interface	data retrieval, parameter setting, firmware update

Mechanical data

Case material	galvanized sheet steel
Dimensions	(W x D x H) 650 x 400 x 400 mm
Weight	approx. 45 kg
Protection class	IP 20, additional protection against contamination
Cooling	2 internal fans; 2 external fans built into the rear panel (externally controlled)

Connecting terminals

Input DC	HAN Modular 100 A 2-pole
Input AC (supply of external fans)	HAN Q5
Signal	HAN EEE 20-pole
Output AC	HAN Q2
Grounding bolt	2 x M10
LAN	RJ45

Warranty

24 months

Order Code

INVR6000-110-230-K1