let's talk!

Power Innovation
Stromversorgungstechnik GmbH

DC-AC Converter INVBR4000-110-230-K1

Inverter for Sub-Chassis mounting in Rail Applications

Specifications

General

Electrical safety	according to EN 50124 overload and short-circuit proof
Efficiency	> 88 % at nominal load
Electrical isolation (primary/secondary)	3.75 kV_{DC}
EMC	according to EN 50121
Operating temperature	-25°C to +55°C, according to EN 50155 category T1
Rel. humidity	according to EN 50155
Shock and vibration	according to EN 61373

Input DC

Nominal voltage	U_N = 110 V_{DC}
Voltage range	77 – 150 V_{DC}

Input AC

Nominal voltage	230 V_{AC}, +10 %/-15 %
Type of network	TT grid
Frequency range	47 – 53 Hz, sinusoidal
Mains connection	1-phase
AC input fuse	25 A fast acting

Output AC

Nominal voltage	230 V_{AC}, 1-phase
Voltage stability	+/- 5 %
Frequency	50 Hz sine wave processor controlled
Max. output power	4000 VA / 3200 W
Output current	maximum 26 A
Short-circuit current	I_{sc} = 35 A
Power factor	+0.8 … -0.8
Load range	0 – 100 %
Crest factor	> 2
Harmonic distortion	< 5 %
Overload capability	1.50 x P_{Nom} for 3 seconds
Restart after overload shutdown	after 30 seconds

Signals

Control voltage	110 V_{DC}, 0.5 A +/-30 %
Signal voltage	18 – 150 V_{DC}, nominal value 5 mA
Signal inputs	3 potential-free inputs
Signal outputs	5 x 1-pole relay, (ohmic load) max. current 0.2 A at 110 V_{DC} max. voltage 150 V_{DC}
Display	LED display 7 segment, 4-digit
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

Picture may differ from actual device

Operation

Signal inputs	inverter release and fan operation
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	steel plate, galvanized
Dimensions	(W x D x H) 650 x 480 x 340 mm
Weight	37 kg
Ingress protection class	IP 54
Cooling	2 internal fans, 2 external fans built into the rear panel (external control is possible)

Connecting terminals

Input DC	HAN Modular 100 A 2-pole
Input AC	HAN Q5
Signal	HAN EEE 20-pole
Output AC	HAN Q2
Grounding bolt	2 x M10
LAN	RJ45

Special features

Inverter with integrated static bypass for automatic load switching from mains to inverter or vice versa, switching time typically 4 ms.

Warranty 24 months

Order Code INVBR4000-110-230-K1

Power Innovation GmbH
Rehland 2
28832 Achim

Telefon: +49 (0) 4202 5117-0
eMail: Info@powerinnovation.com
Internet: www.powerinnovation.com

Amtsgericht Walsrode
HRB 121695
Steuer Nr. 48-201-24705
UST-ID DE 114 426 732

Geschäftsführer:
Dipl.-Ing. Bernhard Böden