Power Innovation
Stromversorgungstechnik GmbH

let's talk!

DCDC Converter DCDC900-110-30-K3

DC Converter for Rail Applications

Specification

General

Electrical safety	EN 60950, VDE 0805 overload- and short-circuit protected

Electrical Data

Input

Nominal voltage	U_N = 110 (77-143) V_{DC}

Output

Nominal voltage	$24V_{DC}$ factory setting (10 – 30V programmable)
Stability	+/-1%
Efficiency	>88%
Maximum output power	900W (=U_{OUT}=30V and I_{OUT}=30A)
Max. Output current	30A
Current limitation	constant current, without shutdown, but temperature limited

Environmental conditions

Ambient temperature	-40 to +70°C, according to EN 50155
Relative humidity	<75% average per year
Shock and vibration	according to EN 61373 Cat. 1B

EMC

according to EN 50121-3-2

Isolation

Input	1500 V
Output	500 V
Input to output	1500 V

Signals

Measurement output	1/3 Output voltage (0-10V) current limited by Poly-Switch 0,1 A, RXE 010
Alarm contact	potential-free, Power Good contact load: 140 V / 0,4 A
Interface	RS232 interface

Picture may differ from actual device

Mechanical Data

Case material	stainless steel
Size	(W x D x H) 270 x 254 x 115 mm
Weight	approx. 6.5 kg
Classification	IP 54
Cooling	convection via heat sink on wall side. The cooling fins must run vertically to guarantee an optimal air flow.
Connector height	The extent of the connector plugs (incl. mating plugs) is 90 mm + bending radius of the connecting cables.

Connection

Input: -X1	Harting HANQ5, male, Ag 2,5 mm²
Signal 1: -X2	Harting HAN8U, female, Au 0,75 mm²
Output: -X3	Harting HANQ2, female, 4-6mm²
Signal 2: -X4	D-SUB 9-pole, female
Grounding	M6 x 25 on the case´s side. cable cross-section of at least 4 mm²
	Input an output of the device are isolated from chassis.

Warranty

24 months

Order Code

DCDC900-110-30-K3

Power Innovation Stromversorgungstechnik GmbH, Rehland 2, 28832 Achim, Germany
Tel.: +49 (0)4202 5117-0, Fax.: +49 (0)4202 5117-70, E-Mail: sales@powerinnovation.com, http://www.powerinnovation.com

Power Innovation
Stromversorgungstechnik GmbH

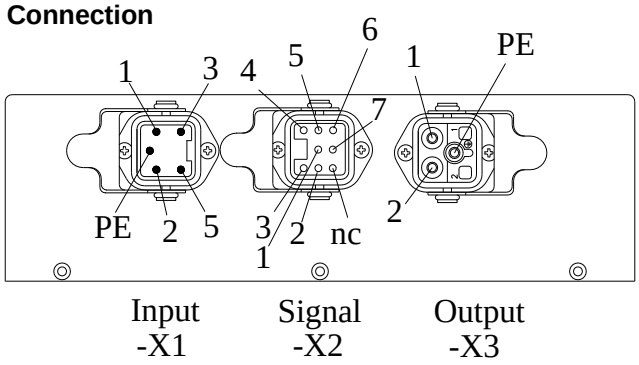
let's talk!

DCDC Konverter DCDC900-110-30-K3

DC Converter for Rail Applications

Specification

Connection



Input and output of the device are not connected to the case.

Input: -X1

1	Input voltage reference 0V
2	Input voltage reference 0V
3	Input voltage positive +U_{IN}
5	Input voltage positive +U_{IN}

Signal 1: -X2

2	Measurement voltage converter output reference (I<100 mA)
3	Measurement voltage converter output positive (I<100 mA)
4	Not connected
5	Not connected
6	Alarm normally closed (NC*, device off)
7	Alarm normally open (NO*, device off)
1	Alarm common (C)

* The contact designations for the alarm contacts refer to the idle position of the currentless relay. During fault-free operation of the converter, the alarm relay is energized.

Output: -X3

1	Output voltage reference 0V
2	Output voltage positive +U_{OUT}

Signal 2: -X4

RS232 interface for parameterization of the voltage thresholds.

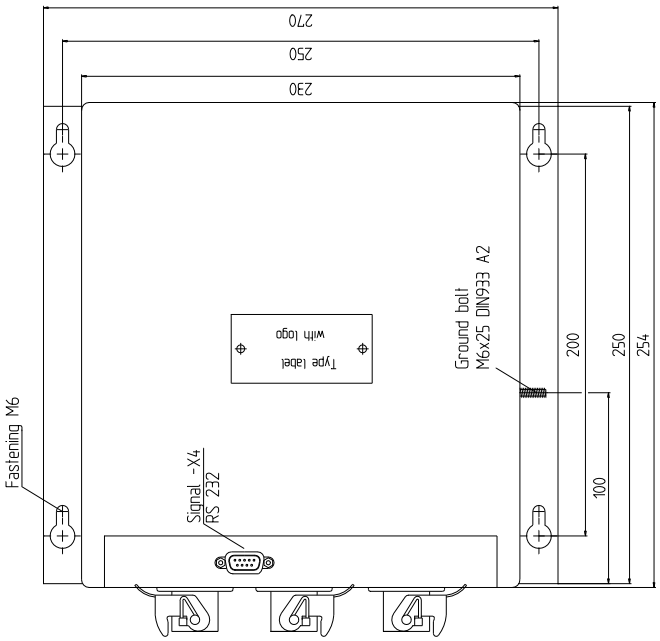
Mounting direction

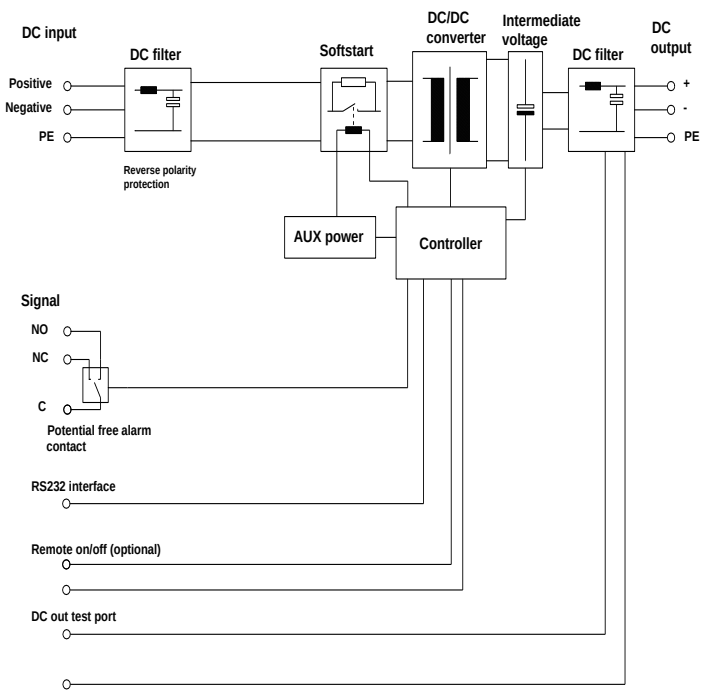
The cooling fins must run vertically to guarantee an optimal air flow and the connections -x1, -x2 and -x3 must point downwards.

Ground bolt

The DCDC converter has a ground bolt M6 x 25 on the case's side. A cable diameter of at least 4 mm² is recommended for the connection. The ground bolt is not connected to the negative pole of the device.

Mechanical Data





Power Innovation Stromversorgungstechnik GmbH, Rehland 2, 28832 Achim, Germany
Tel.: +49 (0)4202 5117-0, Fax.: +49 (0)4202 5117-70, E-Mail: sales@powerinnovation.com, http://www.powerinnovation.com