Power Innovation
Stromversorgungstechnik GmbH

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DCDC Converter DCDC900-110-30-K2

Ultracap Charger for Rail and Industrial 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 Ultracap. charging

Nominal voltage	29,5V_{DC} (10-30V programmable)
Recharge voltage	27,5V_{DC} (17,5-29,5V programmable)
Stability	+/-1%
Efficiency	>88%
Maximum output power	1450W
Max. Output current	50A
Current limitation	constant current, without disconnection, but temperature limited

Ultracap Protection two-stage, redundant and divers

Environmental conditions

Ambient temperature	-40 to +70°C, according to EN50155
Relative humidity	<75% average per year
Shock and vibration	according to EN50155

EMV according to EN50121-3-2

Isolation

Input	1500 V
Output	500 V
Input to output	1500 V

Signals

Test port	1/3 Output voltage (0-10V) current limited by Poly-Switch 0,1 A, RXE 010
Alarm contact	potential free
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 plug) 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. A cable diameter of at least 4 mm²
	Input an output of the device are isolated to chassis.

Warranty 24 months

Order Code DCDC900-110-30-K2

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

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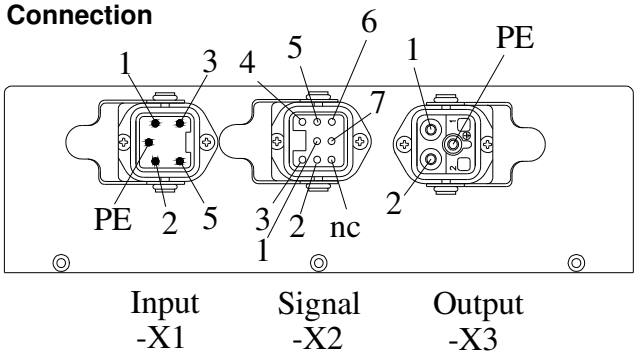
DCDC Konverter DCDC900-110-30-K2

DC Converter for Accumulator charge in 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 normal open (NO, device off)
7	Alarm normal close (NC, device on)
1	Alarm common (C)

Output: -X3

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

Signal 2: -X4

RS232 interface for parameterization of the voltage thresholds.

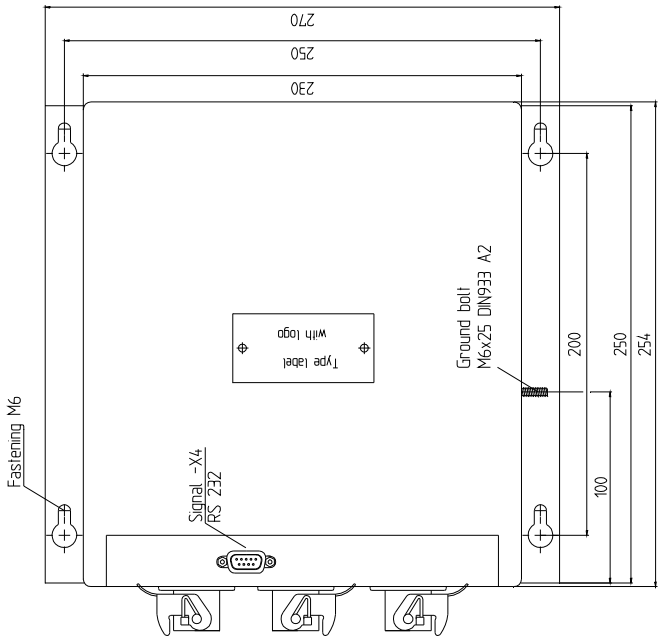
Mounting direction

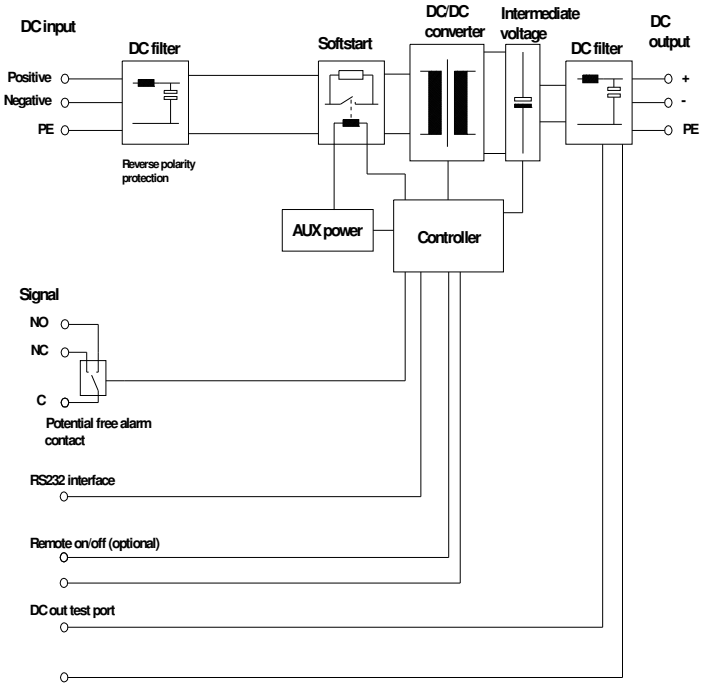
The cooling fins must run vertically to guarantee an optimal air flow and the circuit points -x1, -x2 and -x3 come off downward.

Ground bolt

The DCDC converter has a ground bolt M6 x 25 on the case's side. A cable diameter of at least 4 mm^2 is recommended for the connection. The ground bolt is not connected to the negative pole of the device.

Mechanical Data





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