

DCDC Converter DCDC900-110-30-K1

DC Converter for Accumulator charge in 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 Accu. charging
temperature depending charging-
characteristics (programmable)

Stability +/-1%

Efficiency >85%

Maximum output power 900W

Output current 30A

Current limitation constant current, without discon-
nection, but temperature limited

Overvoltage protection two-stage, redundant and diverse
DC_{OUT} OVP 31,8V (software)
DC_{OUT} OVP 31,6V (hardware)

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

Temperature sensor PT100, for battery temperature
potential free

Alarm contact bridge between pins 4 + 5
(external relay)

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. 6,5kg

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 1 mm²

Output: -X3 Harting HANQ5, female, Ag 2,5 mm²

Signal 2: -X4 D-SUB 9-pole, female

Grounding

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.

Input and output of the device are isolated
to chassis.

Warranty

24 months

Order code

DCDC900-110-30-K1

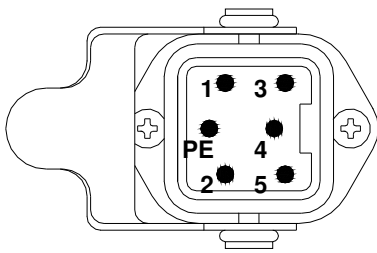
DC-DC Converter DCDC900-110-30-K1

DC Converter for Accumulators charging in Rail-Applications

Specification

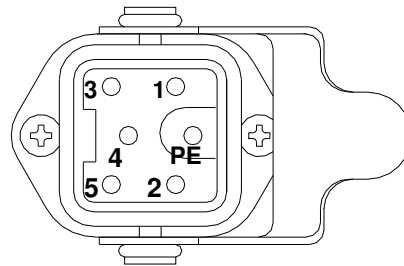
Input: -X1

1	Input voltage reference 0V
2	Input voltage reference 0V
3	Input voltage positive +U _{IN}
4	n.c.
5	Input voltage positive +U _{IN}
PE	protectiv earth



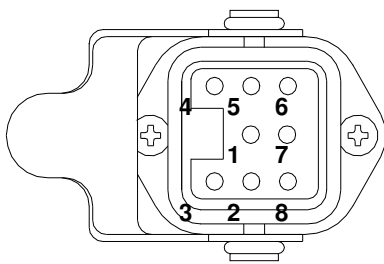
Output: -X3

1	Output voltage reference 0V
2	Output voltage reference 0V
3	Output voltage positive +24V
4	n.c.
5	Output voltage positive +24V
PE	protective earth



Signal 1: -X2

1	Alarm common (C)
2	Temperature sensor
3	Temperature sensor
4	Remote ON/OFF pull up (for external relay: 5V/0,5mA)
5	Remote ON/OFFreference
6	Alarm normal open (NO, converter off)
7	Alarm normal close (NC, converter on)
8	n.c.



Signal 2: -X4

Standard RS232 interface
(without figure)

