

DCDC Converter DCDC900-110-30-K3

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

Nominal voltage $24V_{DC}$ (20-30V programmable)
Stability $\pm 1\%$
Efficiency $> 88\%$
Maximum output power $900W (=U_{OUT}=30V \text{ and } I_{OUT}=30A)$
Max. Output current 30A

Current limitation constant current, without disconnection, but temperature limited

Ultracap Protection two-stage, redundant and divers

Environmental conditions

Ambient temperature -40 to $+70^\circ C$, 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

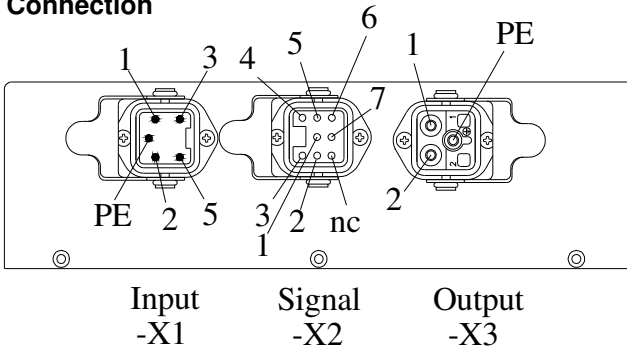
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DCDC Konverter DCDC900-110-30-K3

Ultracap Charger for Rail and Industrial 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 point -x1, -x2 and -x3 comes 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 mm² is recommended for the connection. The ground bolt is not connected to the negative pole of the device.

Mechanical Data

