

DC-DC CONVERTER 48/48 V DC

48/48 V DC, 5 A

CD10.482

DC/DC Converter 48/48 V DC, 5 A

- Width 42 mm
- 95,1% efficiency
- 20% power reserve
- Galvanically separated SELV/PELV output



PRODUCT DESCRIPTION

The CD10.482 is a DIN-rail mountable DC/DC converter of the DIMENSION series which provides a floating, stabilized and galvanically separated SELV/PELV output voltage.

The CD-Series is part of the DIMENSION power supply family. The most outstanding features of CD10.482 are the high efficiency, the small size and the wide operational temperature range.

The CD-Series includes all the essential basic functions. The devices have a power reserve of 20% included, which may even be used continuously at temperatures up to +45°C.

High immunity to transients and power surges as well as low electromagnetic emission and a large international approval package for a variety of applications makes this unit suitable for nearly every situation.

TECHNICAL DATA

INPUT DATA

Max entrance tripple	10 V pp
Inrush current	Typ. 7 A @ 48 V DC
Input voltage dc max	60 V DC
Input voltage dc	48 V
Input capacitance	1650 µF
Input voltage dc min	36 V DC

OUTPUT DATA

Output voltage min	48 V DC
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Output voltage	48 V DC
Output voltage max	56 V DC
Power	240 W
Output current	5 A

EFFICIENCY / LIFETIME / MTBF

Life span	160 000 h @ 48 V DC, 5 A, 40 °C
Efficiency	95,1 %
MTBF (IEC 61709)	tbd

DIMENSIONS

Weight	0,5 kg
Depth	117 mm
Width	42 mm
Height	124 mm

OTHER

IP class	IP20
Startup delay	350 ms
Ripple max	50 mV pp
Power drop from +60 °C to +70 °C	6 W/°C
Clamp type	Screw
Temperature min without derating	-25 °C
Series	Dimension C
Keep time	Typ. 7,7 ms @ 48 V DC
Approvals	CE, UL
Temperature max without derating	60 °C
Material protection	Aluminium
Type Power Supply	DC-DC

Fig. 15-1 Output current vs. ambient temp.

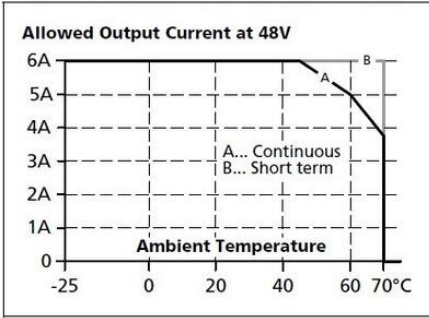


Fig. 8-1 Efficiency vs. output current at 48V output and 48Vdc input voltage, typ.

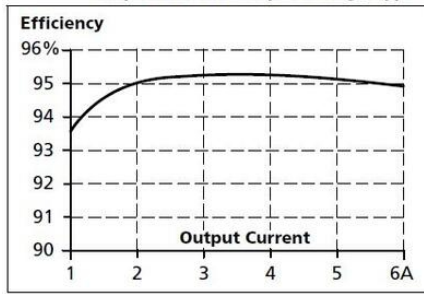


Fig. 10-1 Front side



Fig. 20-1 Front view

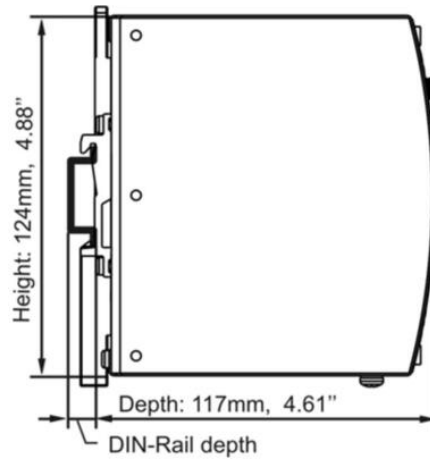
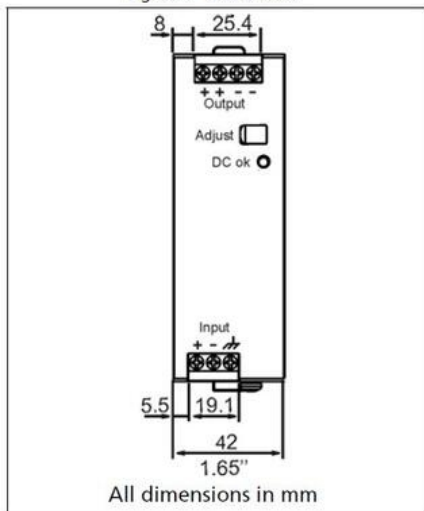


Fig. 15-1 Output current vs. ambient temp.

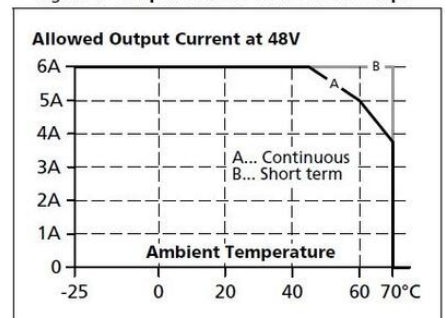


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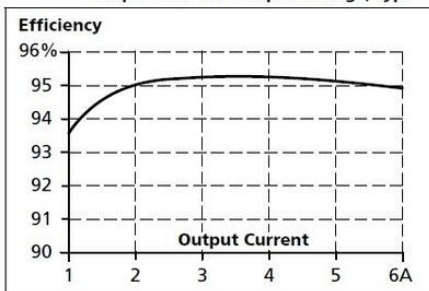


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