

DC-DC CONVERTER 24/24 V DC

24/24 V DC, 10 A

CD10.241

DC/DC Converter 24/24 V DC, 10 A

- Width 42mm
- 94,2% efficiency
- 20% power reserve
- Galvanically separated SELV/PELV output

**PRODUCT DESCRIPTION**

The CD10.241 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 CD10.241 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	5 V pp
Inrush current	Typ. 6 A @ 24 V DC
Input voltage dc max	35 V DC
Input voltage dc	24 V
Input capacitance	4300 µF
Input voltage dc min	18 V DC

OUTPUT DATA

Output voltage min	24 V DC
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Output voltage	24 V DC
Output voltage max	28 V DC
Power	240 W
Output current	10 A

EFFICIENCY / LIFETIME / MTBF

Life span	103000 h @ 24 V DC, 10 A, 40 °C
Efficiency	94,2 %
MTBF (IEC 61709)	731000 h @ 24 V DC, 10 A, 40 °C

DIMENSIONS

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

OTHER

IP class	IP20
Startup delay	200 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. 4 ms @ 24 V DC
Approvals	CE, UL
Temperature max without derating	60 °C
Material protection	Aluminium
Type Power Supply	DC-DC

Fig. 7-1 Efficiency vs. output current at 24V output and 24Vdc input voltage, typ.

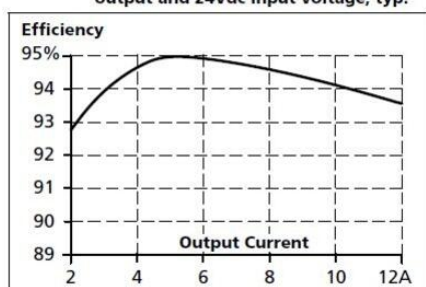
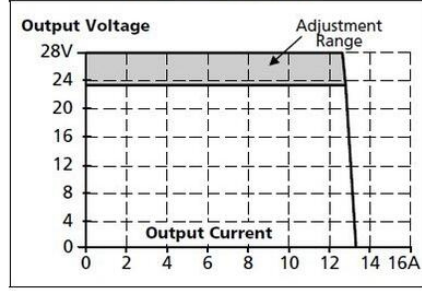


Fig. 5-1 Output voltage vs. output current at 24Vdc input voltage, typ.



Allowable Output Current at 24V

