

DC-DC CONVERTER 24/24 V DC

24/24 V DC, 10 A

CD10.241
POWER SUPPLY 24/24 VDC 10A

- 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.

SPECIFICATIONS

| | |
|----------------------|--------------------|
| Input voltage DC | 24 V |
| Input voltage dc min | 18 V DC |
| Input voltage dc max | 35 V DC |
| Input Capacitance | 4300 µF |
| Inrush current | Typ. 6 A @ 24 V DC |
| Max entrance tripple | 5 V pp |
| Type Power Supply | DC-DC |
| Start-Up Delay | 200 ms |
| Output voltage | 24 V DC |

| | |
|---|---------------------------------|
| Output voltage min | 24 V DC |
| Output voltage max | 28 V DC |
| Output Current | 10 A |
| Effect | 240 W |
| Power Reduction Of 60 To 70 ° C | 6 W/°C |
| Ripple. max | 50 mV pp |
| Temperature Range Without Derating From | -25 °C |
| Temperature Range Without Derating To | 60 °C |
| Efficiency | 94,2 % |
| Life span | 103000 h @ 24 V DC, 10 A, 40 °C |
| MTBF (IEC 61709) | 731000 h @ 24 V DC, 10 A, 40 °C |
| Width | 42 mm |
| Height | 124 mm |
| Depth | 117 mm |
| Weight | 0,5 kg |
| Clamp type | Screw |
| Series | Dimension C |
| Approvals | CE, UL |
| Material Protection | Aluminium |
| Keep time | Typ. 4 ms @ 24 V DC |
| IP Class | IP20 |

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

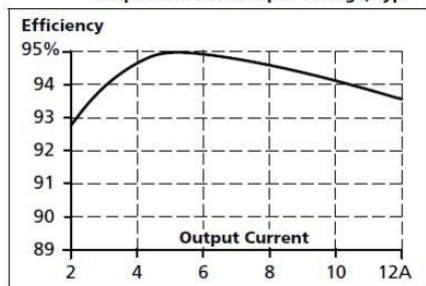
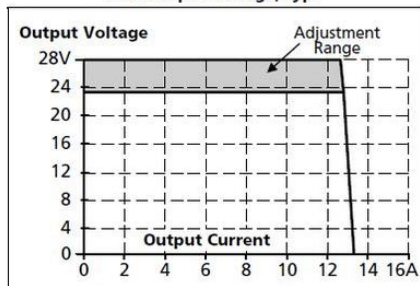


Fig. 5-1 Output voltage vs. output current at 24Vdc input voltage, typ.



Allowable Output Current at 24V

