

## DC-DC CONVERTER 48/24 V DC & 12/24 V DC

48/24 V DC, 5 A & 12/24V DC, 4A

CD5.242 DC-DC converter 48/24 VDC. 5A

- Only 32 mm wide
- · Isolated output voltage
- Wide input voltage range
- 20% Power Reserve



## PRODUCT DESCRIPTION

Puls Dimension DC-DC converters have a high efficiency, very compact and mounted on a DIN rail.

The input voltage can for example. come from power supplies, batteries, solar panels, etc.. The output is galvanically isolated from the input. Typical applications are mounting at the end of a long cable to stabilize the voltage, convert one voltage to another or to isolate specific loads. Can also be used in conjunction with batteries to get a constant output voltage even though the battery voltage drops.

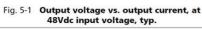
DC-DC converters are equipped with a soft start function which means that the stream gradually rises to the nominal value. This is avoided with high starting currents that can cause a voltage drop on the primary side and give boot problems.

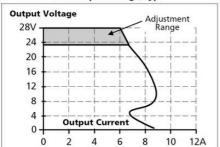
A power reserve of 20% gives additional power resources at the temporary power peaks.

## **SPECIFICATIONS**

Input voltage DC	48 V
Input voltage dc min	36 V DC
Input voltage dc max	60 V DC
Input Capacitance	800 μF
Inrush current	Typ. 0,6 A @ 48 V DC
Max entrance tripple	5 V pp
Type Power Supply	DC-DC
Start-Up Delay	670 ms
Output voltage	24 V DC
Output voltage min	24 V DC

Output voltage max	28 V DC
Output Current	5 A
Effect	120 W
Power Reduction Of 60 To 70 ° C	3 W/°C
Ripple. max	50 mV pp
Temperature Range Without Derating From	-25 °C
Temperature Range Without Derating To	60 °C
Efficiency	90,3 %
Linciency	90,3 //
Life span	64000 h @ 24 V DC, 5 A, 40 °C
MTBF (IEC 61709)	951000 h @ 24 V DC, 5 A, 40 °C
Width	20
width	32 mm
Height	124 mm
Depth	102 mm
Weight	0,425 kg
Clamp type	Screw on
Series	Dimension C
Approvals	ABS, ATEX, CB, CE, CSA, GL, IECEx, UL
Material Protection	Aluminium
Keep time	Typ. 5,6 ms @ 48 V DC
IP Class	IP20





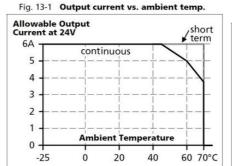


Fig. 7-1 Efficiency vs. output current at 24V output and 48Vdc input voltage, typ.

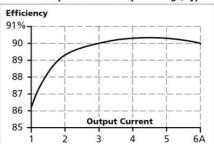


Fig. 7-2 Losses vs. output current at 24V output and 48Vdc input voltage, typ.

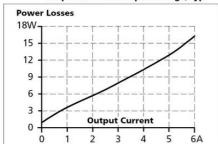


Fig. 9-1 Front side



