

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



PULS

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.

TECHNICAL DATA

INPUT DATA

Max entrance tripple	5 V pp
Inrush current	Тур. 0,6 А @ 48 V DC
Input voltage dc max	60 V DC
Input voltage dc	48 V
Input capacitance	800 µF
Input voltage dc min	36 V DC
OUTPUT DATA	
Output voltage min	24 V DC
Output voltage	24 V DC
Output voltage max	28 V DC

Power	120 W
Output current	5 A
EFFICIENCY / LIFETIME / MTBF	
Life span	64000 h @ 24 V DC, 5 A, 40 °C
Efficiency	90,3 %
MTBF (IEC 61709)	951000 h @ 24 V DC, 5 A, 40 °C
DIMENSIONS	
Weight	0,425 kg
Depth	102 mm
Width	32 mm
Height	124 mm
OTHER	
IP class	IP20
Startup delay	670 ms
Ripple max	50 mV pp
Power drop from +60 °C to + 70 °C	3 W/°C
Clamp type	Screw on
Temperature min without derating	-25 °C
Series	Dimension C
Keep time	Typ. 5,6 ms @ 48 V DC
Approvals	ABS, ATEX, CB, CE, CSA, GL, IECEx, UL
Temperature max without derating	60 °C
Material protection	Aluminium
Type Power Supply	DC-DC

















