



DC/DC CONVERTER

- Wide Range DC Input (36-60Vdc)
- Isolated 24Vdc Output
- Efficiency up to 90.3%
- Width only 32mm
- 20% Output Power Reserves
- Full Output Power Between -25°C and +60°C
- Soft-start Function Included
- Minimal Inrush Current Surge
- Reverse Input Polarity Protection
- 3 Year Warranty

1. GENERAL DESCRIPTION

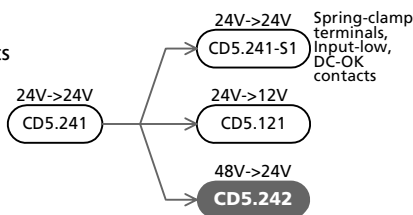
The Dimension CD5-Series offers a range of DIN-rail mountable DC/DC-converters in a very compact housing.

The CD5.242 converts a 48V voltage to a 24V voltage. The input source can be a battery, a solar panel or any other 48V sources.

The CD5.242 includes all the essential basic functions and has a power reserve of 20% included. This extra power can be used continuously up to +45°C.

The output is electrically isolated from the input in a safe way. The input is protected against reversed voltages and contains a soft start function.

CD-Series Related products



2. SHORT-FORM DATA

Output voltage	DC 24V	
Adjustment range	23 - 28V	
Output current	5 - 4.3A	Ambient <60°C
	6 - 5.1A	Ambient <45°C
Output power	120W	Ambient <60°C
	144W	Ambient <45°C
Output ripple	< 50mVpp	20Hz to 20MHz
Input voltage	DC 48V	36 to 60Vdc (30.5 to 36Vdc with derating)
Input current	typ. 2.75A	At 48Vdc input
Input inrush current	typ. 0.6A peak	
Efficiency	typ. 90.3%	At 48Vdc input
Losses	typ. 12.9W	At 48Vdc input
Hold-up time	typ. 5.6ms	At 48Vdc input
Temperature range	-25°C to +70°C	Operational
Derating	3W/°C	+60 to +70°C
Dimensions	32x124x102mm	WxHxD

3. ORDER NUMBERS

DC/DC Converter	CD5.242	Standard unit
Accessories	ZM1.WALL	Wall mount bracket
	ZM11.SIDE	Side mount bracket
	YRM2.DIODE	Redundancy module
	YR2.DIODE	Decoupling module

4. MARKINGS

