



### DC/DC CONVERTER

- Wide Range DC Input (18-32.4Vdc)
- 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
- DC-OK and Input-low Relay Contact (CD5.241-S1)
- 3 Year Warranty

## 1. GENERAL DESCRIPTION

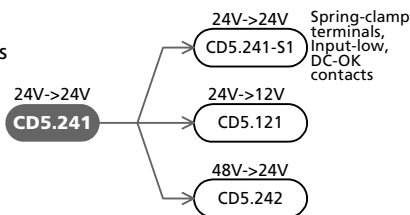
The Dimension CD5-series offer DIN-rail DC/DC converters in the 120W output power range in a very compact housing.

These DC/DC converters are allowed to run from a battery, can also be used to refresh and stabilize the 24Vdc on the end of a long cable or to isolate specific loads from the 24V bus voltage.

The CD5.241 includes all the essential basic functions while the CD5.241-S1 is equipped with quick-connect spring clamp terminals, a DC-OK-contact which monitors the output and an input-low-relay-contact. Both devices have a power reserve of 20% and this extra power can be used continuously up to +45°C.

#### 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 24V	18 to 32.4Vdc (14 to 18Vdc with derating)
		At 24Vdc input
Input current	typ. 5.5A	
Input Inrush current	typ. 1.2A peak	
Efficiency	typ. 90.3%	At 24Vdc input
Losses	typ. 12.9W	At 24Vdc input
Hold-up time	typ. 6ms	At 24Vdc 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	<b>CD5.241</b>	Standard unit
	<b>CD5.241-S1</b>	Unit with signals and spring-clamp terminals
Accessories	ZM1.WALL	Wall mount bracket
	ZM11.SIDE	Side mount bracket
	YRM2.DIODE	Redundancy module
	YR2.DIODE	Decoupling module

## 4. MARKINGS

