

# DC-DC Converter DCDC300-24-24

For Rail and Industrial Applications

## Specification



Picture may differ from actual device

### General

Electrical safety DIN EN 60950, VDE 0805  
overload protected and permanent  
short-circuit proof

### Electrical Data

#### Input

Input voltage nominal  $U_N = 24 V_{DC}$   
Voltage range  $\pm 20\%$  (18-32  $V_{DC}$ )

#### Output

Output voltage 24  $V_{DC}$ , isolated, "floating"  
Voltage tolerance  $< \pm 2\%$   
Setting range 22 – 26  $V_{DC}$

Ripple  $< 100 mV_{SS}$  (50 MHz 50  $\Omega$ )  
Start-up delay 3 seconds  
Output current  $I_{OUT} = 0 - 12,5 A$   
Current limitation  $I_S = 1,05 \times I_{OUT max.}$   
Overload characteristic permanent short-circuit proof  
Output features parallel operation for output power  
upgrade  
redundant operation possible

Output power 300W  
Efficiency  $> 85\%$  at  $U_N$

#### Ambient Characteristic

Ambient temperature  $-40$  to  $+60^\circ C$   
Relative humidity max. 95%, not condensing  
Cooling forced cooling, internal fan, temperature  
controlled  
Derating from ambient temperature  $> 50^\circ C$ ,  
 $2,5\%/1^\circ C$

#### Protection

Input 20A fuse  
Output overvoltage protection =  $U_{OUT} \pm 30V$

#### EMC

Emission DIN EN 55022 B  
Immunity DIN EN 55024, industrial areas

#### Insulation

Input to ground 500V  
Output to ground 500V  
Input to output 500V

#### Mechanical Data

Dimension 19"-alu cassette, 3U, 14 TE  
Weight approx. 1kg  
Protection IP 20

#### Signal

Alarm contact power good relais  
Optical signals output voltage  $U_{OUT}$  o.k.  
LEDs (green) for  $U_{IN}$ ;  $U_{OUT}$

#### Connection Characteristics

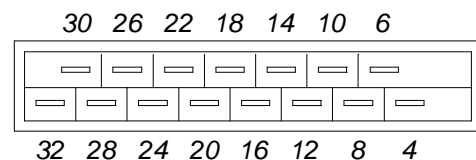
Connector H15 DIN 61612; rear side  
Pin assignement refer to table below

**Warranty Time** 24 months

**Order Code** DCDC300-24-24

#### Options

-1 formal coating, additional  
glued components



Pin	Function	Abbreviation
4	Output voltage positive	+ $U_{OUT}$
6	Output voltage positive	+ $U_{OUT}$
8	Output voltage reference	0V $U_{OUT}$
10	Output voltage reference	0V $U_{OUT}$
12	Load share	+ LS
14	Load share reference	0V LS
16	Not connected	n.c.
18	Signal, common	COM
20	Signal, normal closed	NC
22	Signal, normal open	NO
24	Protectice earth	PE
26	Input voltage positive	+ $U_{IN}$
28	Input voltage positive	+ $U_{IN}$
30	Input voltage reference	0V $U_{IN}$
32	Input voltage reference	0V $U_{IN}$