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Power Innovation
Stromversorgungstechnik GmbH

let's talk!

DC-DC Converter DCDC300-24-24

For Rail and Industrial Applications

Picture may differ form actual device

Specification

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	±20% (18-32 V_{DC})

Output

Output voltage	24 V_{DC}, isolated, "floating"
Voltage tolerance	<±2%
Setting range	22 – 26 V_{DC}
Ripple	<100 mV_{ss} (50 MHz 50 Ω)
Start-up delay	3 seconds
Output current	I_{OUT} = 0 – 12,5 A
Current limitation	I_S = 1,05 x $I_{OUT\ max.}$
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°C
Relatice humidity	max. 95%, not condensing
Cooling	forced cooling, internal fan, temperature controlled
Derating	from ambient temperature >50°C, 2,5%/1°C

Protection

Input	20A fuse
Output	overvoltage protection = U_{OUT} ⊄ 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 output voltage U_{OUT} o.k.
Optical signals	LEDs (green) for U_{IN}; U_{OUT}

Connection Characteristics

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

Warranty Time

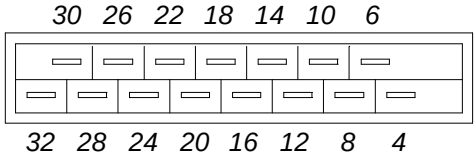
24 months

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}

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