made for experts

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CON-300W

DC - DC Converter

Description

This range of wall mounting DC/DC converters is available with either 110VDC or 60VDC input and provides isolated and floating outputs of 24V, 48V, and 60V. The series have been designed for convection cooling for applications that demand high reliability and low maintenance. The units are protected to IP 30 and can operate in ambient temperatures of -25°C to + 60°C. The converters can be further ruggerdized with the addition of conformal coating and the securing of the larger components. The units are suitable for many applications including Rail, Industrial and Telecom.

- Extended operating temperature range
- Small footprint (140 x 85 x180mm)
- Wide DC input voltage range
- Volt free alarm contacts
- Rugged construction
- Convection cooled
- Parallel operation

Selection Table

Part Number	Maximum Power	Input Voltage	Output Voltage
CON-300W 110-48	300W	110VDC (77 - 150VDC) (165VDC peak 1 sec)	48VDC (adj. ±2V)
CON-300W 110-24	300W	110VDC (77 - 150VDC) (165VDC peak 1 sec)	24VDC (adj. ±2V)
CON-300W 60-60	300W	60VDC (38 - 72VDC)	60VDC (adj. ±2V)
CON-300W 60-48	300W	60VDC (38 - 72VDC)	48VDC (adj. ±2V)
CON-300W 60-24	300W	60VDC (38 - 72VDC)	24VDC (adj. ±2V)

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Technical Data

	110-48	110-24	60-60	60-48	60-24
General					
Electrical Safety	DIN EN 60950, VDE 0805 Overload and short circuit protected				
Input					
Input Voltage Nominal	110VDC	110VDC	48/60VDC	48/60VDC	48/60VDC
Input Voltage Range	77 - 150VDC (165VDC peak 1 sec)	77 - 150VDC (165VDC peak 1 sec)	38 - 72VDC	38 - 72VDC	38 - 72VDC
Output					
Output Voltage	48VDC	24VDC	60VDC	48VDC	24VDC
Adjustable	46 - 50VDC	22 - 26VDC	58 - 62VDC	46 - 50VDC	22 - 26VDC
Stability	±0.5%				
Efficiency	>85%				
Output Power	300W				
Parallel Operation	Via passive load current sharing, falling curve				
Ambient Characteristics					
Ambient Temperature	-25°C to +45°C (non-condensing)				
At Installation Point	-25°C to +60°C (non-condensing)				
Relative Humidity	<75% average per year				
Shock & Vibration (with option /01)	According to EN 50155 (mounted in the frame), frequency range: 5 - 150Hz transfer frequency: 8.2Hz				
Amplitude	Below transit frequency: 7.5mm				
Amplitude Acceleration	Above tranist frequency: 20m/s^2				
EMC					
Burst	According to EN 50121-3-2, 2kV criteria A, direct coupled				
Surge	1.8kV/source 100Ω 1.0kV/source 2Ω (for alarm contact 1.5kV)				
Conductive HF	3Vrms 1kHz AM, 80% AM, 150kHz - 80MHz				
ESD	8kV air, 6kV contact				
Emitted Disturbance Immunity	10 V/m 80MHz - 1GHz, 80% AM, 900MHz pulse modulated				
Conductive Disturbance Emitted	99dBµV QP 150kHz - 500kHz, 93dBµV 500kHz - 30MHz 30 - 230MHz 47 dBµV/m QP, 230MHz - 1GHz 40 dBµV/m QP (10m measuring distance)				
Test Voltage	According to EN 50155 with 1.5kVAC (primary -> secondary /PE) 500VAC (sec > primary/PE)				
Signal					
Alarm Output	Potential free alarm contact, contact 60VDC, 100mA				
Indicator	LED, yellow = converter ok				
Mechanical Data					
Dimensions	140 x 85 x 180mm (W x H x D)				
Weight	Approx. 1.7kg				
Protection Class	IP30				
Cooling	Natural via heat sink, free convection				
Connection					
Input	Cage spring clamp, 2.5mm^2				
Output	Cage spring clamp, 2.5mm^2				
Signal	Cage spring clamp, 2.5mm^2				

Options Table

Code	Description
/CC	Conformal coating and additional fixing of components

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