

DCM Series DC/DC Voltage Converter



Benefits

- Ultra-Quiet
- Power sensitive electronics without interference
- Rugged & Reliable
- Ensure years of safe and trouble free operation

Applications

- Automotive / RV
- Railway
- Marine
- Electric Utilities and Substations
- Telecom Power Plants
- Manufacturing Locations
- Military Applications (COTS)
- Industrial Controls
- OEM Applications
- Solar / Alternative Power Systems

DC/DC Converters

DCM Single-Output DC Converter

Description

The DCM Series of DC/DC converters supplies a 13.8VDC output voltage from a 24VDC power source.

This series is specially designed for automotive applications. It meets EMV/Kfz E8-10R-035132 standard.

It is manufactured according to ISO 9001 to meet highest quality standards.

It uses a field proven high frequency push-pull topology to generate up to 400W output power with convection cooling.

An integrated redundancy diode allows for parallel connection to achieve higher output power or N+1 redundancy.

The chassis-mount design features low component count and high efficiency.

Features

- Compact size
- Convection/conduction cooled - no fan (except DCM-40)
- Up to 500W output power
- Full electronic protection
- Rugged industrial quality
- EMV/Kfz E8-10R-035132
- Field-proven design
- n+1 redundancy available
- 2 years parts and labour warranty

Specifications

Model	DCM-10	DCM-15	DCM-20	DCM-30	DCM-40
Input Voltage	Nominal 24VDC (18V to 35VDC)				
Input Protection	Safety fuse Lower voltage than specified input min. will not damage unit				
Output Voltage	13.8 VDC				
Output Current max.	10A	15A	20A	30A	40A
Output Current cont.	8A	10A	15A	20A	30A
Redundancy diode	Yes				
Output Voltage Regulation	< 2%				
No Load Current	< 5 mA	< 5 mA	< 5 mA	< 25 mA	< 25 mA
Overload Protection	Current limiting with short circuit protection				
Efficiency	Min 92%				
Operating Temperature	-20° to +50°C				
Cooling	convection	convection	convection	convection	Fan
Indicators	Optional				
Control Input	Optional				
Alarm Outputs	Optional				
Dimensions	110x100x50	130x100x50	130x100x50	150x100x50	150x100x50
Weight	0.44kg	0.52kg	0.52kg	0.72kg	0.74kg
Standards	CE, EMV/Kfz E8-10R-035132				
RoHS Compliance	Fully compliant				
Warranty	2 years				

Available from:



RIPEnergy®

The power conversion company

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