

ACR150 – NEW POWERFUL DC/DC CONVERTERS FOR TRANSPORTATION SYSTEMS

Autronic present their brand new series ACR150 with an output power of up to 150 watts. These DC/DC converters for PCB mounting offer a wide range of input voltages in compliance with EN 50155. The ACR150 is shock and vibration resistant encapsulated and has an extended temperature range between -40 and $+85^{\circ}\text{C}$. This makes it suitable for rough and powerful application in industry, railway and transportation systems.

The series is available with the following input voltage ranges: 14.4 to 40 VDC, 43 to 101 VDC and 66 to 154 VDC. Other input voltages are possible on request. The modules are available for the following output voltages: 5 V, 12 V and 24 V.

The single transistor forward converter's topology with active clamping helps to meet the EMC requirements: The ACR150 converters reach conducted emission according to EN 55011 Class A and comply with the railway specific criteria of surge, burst and ESD without additional components. Features like enable, sense, thermal warning, output trimming, current sharing during parallel connection and the possibility to synchronize the switching frequency to a system frequency facilitate the design-in.

An innovative PCB of aluminium substrate and the high performance of the converter are reflected by the mechanical size: 95 x 65 mm and a construction height of 11 mm. Encapsulation and plastic frame have been selected carefully in compliance with high flammability classifications.

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Für Rückfragen:

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