

NEW DC/DC CONVERTERS FOR TRANSPORTATION SYSTEMS

Autronic present their brand-new converter series ACR45 with an output power of 45 watts. These new DC/DC converters for PCB mounting offer a wide range of input voltages in compliance with EN 50155. The ACR45 is shock and vibration resistant encapsulated and has an extended temperature range between -40 and $+85^{\circ}\text{C}$. This makes it suitable for application in railway and transportation systems, info displays, lighting, control systems, passenger entertainment and supply systems.

The new series is available with the following input voltage ranges: 14.4 to 40 VDC and 9 to 36 VDC. And the work on a range between 66 and 154 VDC is already in progress. Other input voltages are possible on request. The modules are available for the following output voltages: 5 V, 15 V and 24 V. At 5 V and 12 V synchronous rectifiers care for a high efficiency of over 85 %. The single transistor forward converter's topology with active clamping helps to meet the EMC requirements: The ACR 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: 50 x 50 mm and a construction height of 11 mm. Encapsulation and plastic frame have been selected carefully in compliance with the flammability classification UL 94-VO.

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