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Series PCMDS80 as Base Plate or Heat Sink Version

The DC/DC converters PCMDS80 from MTM Power® are specially designed as decentralised power supplies in vehicles and for supplying closed sub-systems in rolling stock applications.

They are available with three wide input ranges thus enables the use of the converters on batteries with 24 V, 48 V and 100 V acc. EN 50 155. The converters are also suitable for use in industrial and telecommunication applications.

The PCMDS80 are available with 80 W output power and operate according to the single transistor forward converter topology with a frequency of 50 kHz. With the help of a transformer and a secondary linear choke, a galvanically isolated output voltage (12 V; 13,8 V; 24 V; 27,6 V or 48 V) is produced which is adjusted by pulse-width modulation according to the current mode principle.

The devices can be operated in a temperature range of -40...+70 °C without derating and have an efficiency of up to 88 %.

The dimensions of the base plate version are 119 x 100 x 40 mm. Due to the rugged design with contact-cooling (BPC technology), it is possible to reduce the power loss via heat dissipation through the mounting plate while increasing the life-time of the devices at the same time. In addition a heat sink version with 119 x 115 x 65 mm (length x width x height) is available.

The thermoselective vacuum encapsulation (EP 1 987 708, U.S. Patent No. 8,821,778 B2) guarantees homogeneous heat dissipation within the modules as well as an excellent resistance against environmental influences such as shock, vibration

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and humidity. The converters need no ground load and are short-circuit protected by primary and secondary power limiting. They are maintenance-free, prepared for the use in devices with Protection Class II and fulfil the fire protection directive EN 45 545-2.



PCMDS80

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