



MTM POWER®

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DC/DC Converters With Base Plate Cooling (BPC) Technology

With the series PCMDNI300, MTM Power introduces a new generation of DC/DC converters without galvanic isolation which can be installed as decentralised power supplies in vehicles and for supplying closed sub-systems in rolling stock.

The wide input voltage range of 28...160 V_{DC} enables the use of the converters on batteries with 36 to 100 V. The devices can be operated in a temperature range of -40...+70 °C without derating and have an excellent efficiency of up to 96 %.

The completely vacuum encapsulated converter (EP 1 987 708, U.S. Patent No. 8,821,778 B2) is protected against condensation, conductive dust and other environmental conditions and available with output voltages of 12 V_{DC} or 24 V_{DC}.

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. As an option a self-cooling version with integrated heat sink is also available. A remote control input on the primary side allows a low power switch-on of the output voltage at high loads.

For the use of standard circuit breakers corresponding to the nominal power of the PCMDNI300 and for avoiding contact damages at upstream switching equipment, an active inrush current limit with reverse polarity protection is installed in the input circuit of the converter.

The series is constantly short-circuit protected and needs no ground load. Further features are SMD-technology, automatic 100 % final test and 100-%-burn-in-test. The converter is connected via industrial plugs optional with screw or spring clamp connectors.

Press Contact:

MTM Power® GmbH

Brit Keil

Edingerweg 6, D-60320 Frankfurt/Main

Tel.: +49-69-1 54 26 28, Telefax: +49-69-1 54 26 10

e-mail: keil@mtm-power.com



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Attachment: photo PCMDNI300

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Edingerweg 6, D-60320 Frankfurt/Main

Tel.: +49-69-1 54 26 28, Telefax: +49-69-1 54 26 10

e-mail: keil@mtm-power.com