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## **MTM Power for the first time presents at the InnoTrans 2018: New DC/DC Converters with 400 W**

For years, MTM Power®'s series PCMD400 has been a well-proven converter series, especially designed for applications in vehicle and railway technology as well as in rugged industrial markets. With a complete redesign of this series MTM Power® provides for the first time – with the new PCMDS400 series – converters using state-of-the-art technology, which at the same time fulfil all applicable standards for the different applications in Berlin (Hall 17, Booth 207) at the InnoTrans 2018. On top, the DC/DC converters now offer connection via push-in cage clamp connectors.

The devices operate according to the push-pull principle; i. e. the input dc-voltage is chopped by two push-pull working transistors with a frequency of approx. 70 kHz. With the help of a transformer and a secondary linear choke, a galvanically isolated output voltage of 24 V is produced which is adjusted by pulse-width modulation according to the current mode principle.

The used push-pull topology allows wide input voltage ranges with high efficiencies. The series PCMDS400 is available with an input voltage of 110 V<sub>DC</sub>. The dimensions of the devices which are available in an aluminium case are 150 x 86 x 55 mm (length x width x height). Due to this compact design, they are also suitable for applications where only little space is available.

The converters need no ground load and short-circuit protected by primary and secondary power limitation. The devices have got an "Output Voltage OK" signal as potential-free contact as well as remote control to place the converter in a standby mode with the lowest power consumption.

The maintenance free converters are vacuum potted (EP 1 987 708, U.S. Patent No. 8,821,778 B2) and offer reliable protection against condensation, conductive dust and

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other environmental conditions. Further features are a mechanically and electrically rugged design using SMD-technology and an automatic piece-by-piece test. To ensure a smooth operation, it is necessary to mount the converters on a heat-dissipating surface. Alternatively, a version with heat sink (156.6 x 162 x 55 mm) is available.



Attachment: Photo PCMD5400 110S24W-VT

Mellenbach, August /2018

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