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## DC/DC Converters for IP65 Applications



Enc.: Photo PCMDS150WK-IP65

The primary switched DC/DC converters PCMDS150WK-IP65 from MTM Power are specially designed for applications in vehicle and rail technology but also for use in industrial and telecommunication applications. The push-pull topology used while developing these converters enables a wide input voltage range with high efficiency.

Thus the 150 W converters are available with a wide input range for battery voltages of 24 V, 36 V, 48 V, 60 V, 72 V, 80 V, 96 V and 110 V acc. EN 50 155. With the help

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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 UI characteristic of the output voltage is suitable for the supply of difficult loads such as capacitance, motors or halogen lamps. The dimensions are 192 x 115 x 68 mm (length x wide x height).

The thermoselective vacuum encapsulation (EP 1 987 708, U.S. Patent No. 8,821,778 B2) guarantees uniform heat dissipation within the modules as well as excellent resistant against environmental influences such as shock, vibration and moisture. Remarkable feature of the converters is that they are suitable for applications with protection degree IP65 and thus they are complying with EN 60 068-2-1/2-2/2-11/2-14/2-30.

The converters need no ground load and are short-circuit protected by primary and secondary power limiting. The converters are maintenance-free, comply with to EN 50 155 / 50121-3-2 / 45 545-2 for the use in railway applications and fulfil the low voltage directive. They show a mechanically and electrically rugged design using SMD technology and undergo an automatic piece-by-piece test. Cooling is achieved by free convection.

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