



MTM POWER®

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150 W Power Supplies for Use in Industrial and Railway Applications

With the PCMAT150 S24, MTM Power® introduces a new generation of AC/DC modules which can be installed as a decentralised power supply for industrial and railway applications.

From wide AC/DC (85...264 V_{AC}) and DC/DC (100...300 V_{DC}) input ranges for the worldwide use in industrial networks, a 24 V_{DC} output voltage is generated. The contact-cooled devices have a power good signal as well as an active PFC. Further features are an operating temperature of -40...+70 °C, remote control and 150 % power boost.

The design of the isolation coordination acc. to overvoltage category OV 3 enables the use in applications with high transients as e. g. energy technology. For the use on rail vehicles, the devices were tested according to the standards of EN 50155 and EN 50121-3-2/EN 50121-4. In compliance with the conditions of the railway regulations the units can be used on railway vehicles on the 400/230 VAC internal on-board train power system, in track-side applications and in stationary railway systems.

The PCMAT150 has an efficiency of 92,5 % and is resistant against shock and vibration due to the well-proven encapsulation technology and its extremely rugged design. The vacuum encapsulated (EP 1 987 708, U.S. Patent No. 8,821,778 B2) power supplies offer reliable protection against condensation, conductive dust and other environmental conditions.

They are connected via industrial connectors which meet the demands concerning vibration resistance, reduced wiring time and being maintenance-free and thus the use as a plug-and-play solution in sensitive electronic sub-systems is possible. Due to the rugged design in BPC technology, the thermal losses are dissipated specifically via the mounting plate while increasing the life-time of the devices at the same time.

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