

MTM Power® - DC/DC Converters Series PCMDNI300 with BPC-Technology



PRODUCE SAFE AND RELIABLE.
WITH OUR INNOVATIONS.

The ever increasing number of electrical and electronic appliance requires a robust and reliable power supply. For use in different industrial applications, but also for the sophisticated use in the vehicle and railway technology, MTM Power® for the first time introduces with the series **PCMDNI300** a new generation of DC/DC converters without galvanic isolation.

The wide input voltage range of 18...108V_{DC} or 28...160V_{DC} enables the use of the converters in common battery powered networks as decentralised power supplies in vehicles and for supplying closed sub-systems in rolling stock. 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.

The world wide unique **THERMOSELECTIVE VACUUM ENCAPSULATION TECHNOLOGY** (EP 1987708, US Patent No. 8,821,778 B2) protects against condensation, conductive dust and other pollutions and enables the undisturbed operation of the power supplies even under extreme environmental conditions.

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MTM POWER®

DC/DC Converters Series PCMDNI300

Output Power	300W
Input Voltage Ranges	18...108V _{DC} 28...160V _{DC}
DC Output Voltages	12V, 24V
Dimensions (L x W x H)	
without heatsink	119 x 100 x 40 mm (PMDNI300 W)
with heatsink	119 x 115 x 65 mm (PCMDNI300 WK)

Special Features

- In compliance with EN 50 155 / EN 50 121-3-2 / EN 61 373 Cat. 1, Cl. B
- In compliance with EN 60 950-1 / EN 61 000-6-4 / EN 61 000-6-2
- Fire protection acc. to EN 45 545-2
- Efficiency up to 95%
- Temperature range -40...+70°C / +85°C t ≤10 min
- Active inrush current limiting along with reverse polarity protection
- Cooling via heat dissipation through Al base plate
- Transient protected
- Parallel operation with internal decoupling diode
- Continuous short-circuit and open-circuit protection

