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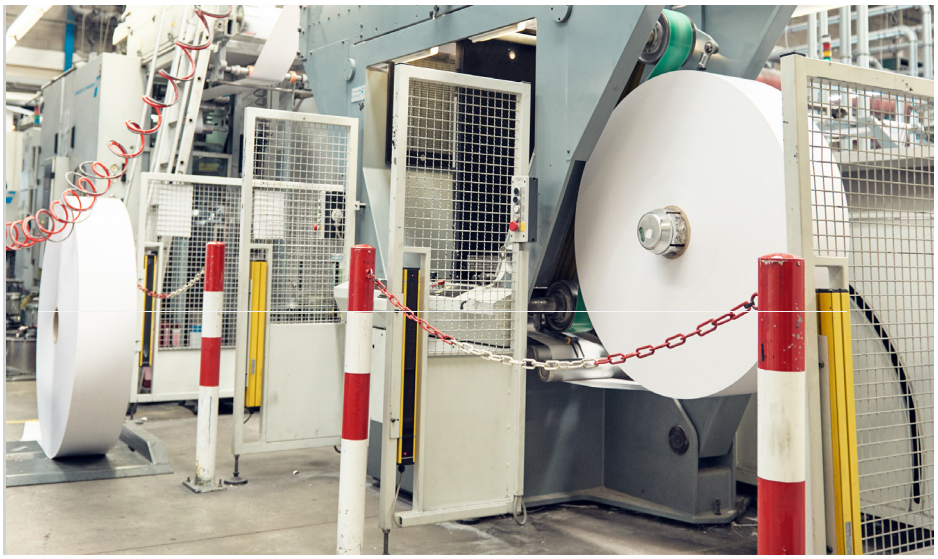

Category
Industrial Electronics & Computing

Application Area
High-Density Control Module

Product
MI1500RW

Project Overview
An industrial electronics manufacturer selected the MI1500RW to provide efficient, high-isolation power within a compact control module.

DATASHEET

MicroPower Direct supplies high-performance AC/DC power supplies and DC/DC power converters for demanding industrial and medical applications. With a focus on reliability, size efficiency, and responsive support, our solutions help engineers design with confidence.

An industrial electronics manufacturer was developing a compact control module for integration into high-reliability equipment. The application required a rugged, high-efficiency DC/DC converter to deliver regulated power within a tightly confined enclosure, while withstanding wide environmental operating conditions.

Key Design Goals:

- 15W isolated power in a compact footprint
- High efficiency to reduce internal heat buildup
- Operation across a wide temperature range
- 1,500 VDC isolation for circuit protection

The engineering team selected a model from the MI1500RW series, which features a 2:1 input range, up to 91% efficiency, and a compact 1 x 1 inch metal case—ideal for high-density layouts. Its 1,500 VDC isolation and -40°C to +80°C operating range ensured long-term performance in field conditions without derating or additional thermal mitigation.

The module has delivered consistent performance in the field, supporting long-term reliability within a demanding industrial environment. Its compact size and efficiency also helped streamline thermal management and simplify system layout.

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