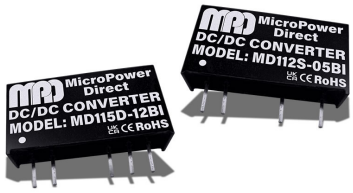
MICROPOWER DIRECT

Category
Aerospace & Defense

Application Area
Dual-Output Control Electronics

Product
MD100BI

Project Overview
An aerospace and defense company integrated the MD100BI converter to provide compact, isolated dual-output power.



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.

A company serving the aerospace and defense industry required a compact, dual-output DC/DC converter to power sensitive electronics within critical control subsystems. The application demanded reliable, isolated power for dual-rail circuits, stable performance in demanding environments, and a minimal footprint for high-density board layouts.

Key design goals included:

- Wide 24 VDC input range (21.6–26.4 VDC) for flexible integration
- ±5V dual output, supporting both analog and digital circuit needs
- 3,000 VDC isolation to protect sensitive control electronics
- SIP package for space-constrained designs
- High efficiency and continuous short-circuit protection for long-term reliability

The engineering team selected the MD100BI series from MicroPower Direct. The MD124D-05BI model delivers ±5V outputs at up to 87% efficiency, provides robust isolation, and meets Class B EMI standards—making it a dependable choice for dual-output aerospace and defense applications.

By integrating the MD100BI, the customer achieved stable, isolated power distribution and long-term reliability for critical subsystems operating in challenging conditions.

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