MICROPOWER DIRECT

Category

Motion & Motor Control

Application Area

Motion Control System

Product

MG200BI, MA1000RU

Project Overview

A motion control manufacturer used MPD converters to deliver compact, isolated power for high-reliability servo control and I/O in aerospace applications.

DATASHEET

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MPD 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 motion control OEM serving aerospace and defense markets was developing a compact power subsystem for an advanced control platform. The system needed to deliver stable, noise-resistant power for real-time feedback, servo control, and embedded communication—while withstanding electrical stress and ensuring long-term reliability.

Key Design Goals:

- 1,500–3,000 VDC isolation for protection and noise immunity
- Compact MiniDIP and DIP packages
- Wide 4:1 input range for flexible integration
- High efficiency for sealed enclosures

The engineering team selected MicroPower Direct's MG200BI and MA-1000RU series. The MG200BI provides 2W of isolated power with up to 3,000 VDC isolation in a miniature SIP package—ideal for sensitive control loops. The MA1000RU offers 10W of regulated output with robust performance in rugged environments, available in a compact module with industry-standard pinout. Together, these models provided a flexible solution that balanced isolation, space efficiency, and proven EMI performance.

The MPD converters enabled a compact, integrated power subsystem that met stringent space, isolation, and performance requirements. Their long-term field performance has supported uninterrupted operation and contributed to the reliability and responsiveness of the customer's motion control platform.

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