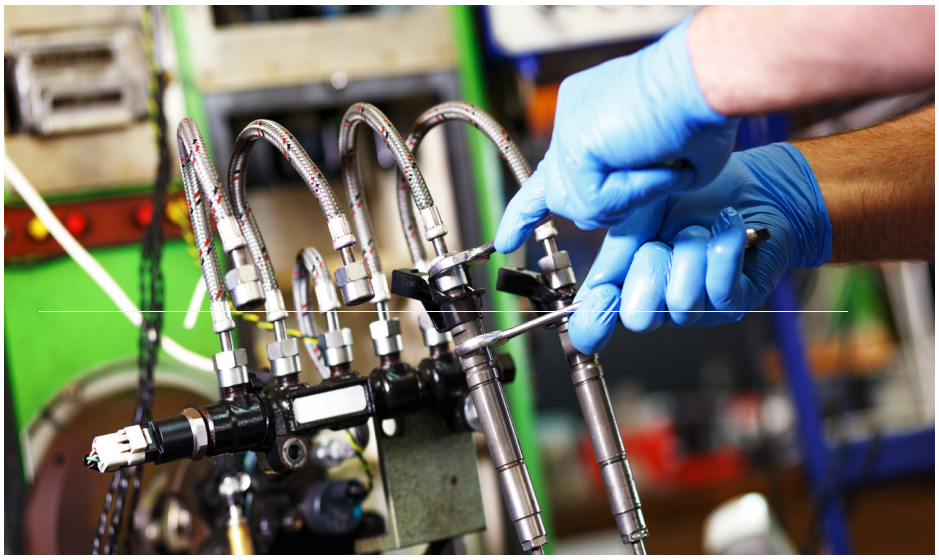
MICROPOWER DIRECT



Category
Automotive & EV Systems

Application Area
Fueling System Control Electronics

Product
MPM-10C

Project Overview
A global fueling infrastructure provider chose MPD's MPM-10C for compact, high-reliability power in demanding EV and fuel management systems.

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 manufacturer in the fueling and EV infrastructure sector required a compact, high-isolation AC/DC power supply to support control electronics in their advanced fueling systems. The engineering team prioritized wide input flexibility, high isolation, reliable protection, and dependable operation over extreme temperature ranges.

Key Design Goals:

- Wide 85–305 VAC or 100–430 VDC input range for global compatibility
- 4,200 VAC reinforced isolation for operator and equipment safety
- Compact size for seamless integration in tight spaces
- Reliable operation from -40°C to +85°C for harsh field environments

To meet these needs, they selected the MPM-10C series from MicroPower Direct. This compact module delivers up to 10W output power with industry-leading isolation, robust short-circuit and overload protection, and efficiency up to 85%. Its UL 62368 safety approval and MTBF greater than 3.2 million hours ensure long-term reliability for fueling system controllers and sensor electronics.

By integrating the MPM-10C, the manufacturer ensured reliable, safe power delivery for their mission-critical vehicle fueling and charging infrastructure—supporting robust, long-term operation even in demanding field conditions.

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