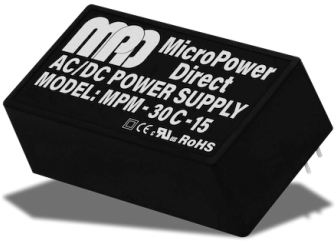
MICROPOWER DIRECT

Category
Automotive & EV Systems

Application Area
EV Charging Systems

Product
MPM-30C

Project Overview
A leading EV charging provider ensured safe, reliable station operation by integrating compact, high-isolation AC/DC power from MicroPower Direct.



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 fast-growing EV charging solutions provider required a compact, reliable AC/DC power supply to support advanced communication and control functions in their field-deployed charging stations. The team needed a robust, high-isolation solution that could deliver consistent, efficient performance under wide input conditions, temperature extremes, and frequent power cycling.

Key Design Goals:

- Wide 85–305 VAC input range for global deployment flexibility
- 4,200 VAC reinforced isolation for enhanced safety
- Compact size and high efficiency for space- and energy-constrained installations
- Reliable operation from -40°C to +85°C for outdoor environments

To meet these requirements, the engineering team selected the MPM-30C series from MicroPower Direct. This 30W, compact AC/DC power supply offers up to 90% efficiency, robust EMI performance (EN 55032 Class B compliance), and built-in protection features including over-voltage, overload, and short-circuit protection. Its 4,200 VAC isolation ensures long-term safety and reliability for sensitive electronics, even in challenging field conditions.

By integrating the MPM-30C, the company enabled their next-gen charging stations to deliver reliable power—supporting the expansion of clean transportation with robust, field-proven solutions.

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