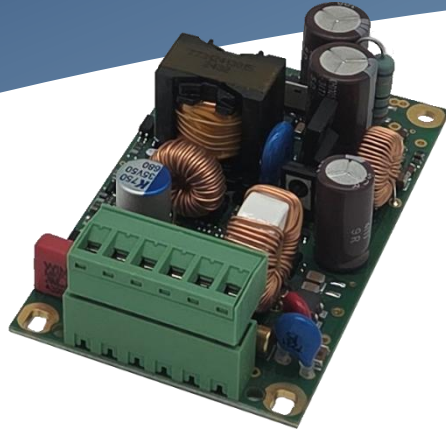


DC/DC-converter

MKA50-W/O

Release: Q4/2026



AUTRONIC – Railway Power. Powered by FORTEC.

The **MKA50-W/O** is a high-performance yet cost-efficient DC/DC converter designed for demanding railway and transportation applications. Developed under the **AUTRONIC label by FORTEC Power**, it combines a compact design, robust construction, and consistent compliance with relevant standards.

Manufactured using **100% SMD technology**, the MKA50-W/O has been engineered from the outset for maximum operational reliability. Integrated protection features, reinforced insulation, and compliance with key railway standards ensure stable operation even under harsh environmental conditions. At the same time, its cost-optimized design provides an attractive alternative to conventional DC/DC bricks—without compromising on quality or standards compliance. These features make it a future-proof solution for rolling stock and railway-related infrastructure.

With the **MKA50-W/O**, users benefit from a reliable power supply solution that combines technical excellence, economic efficiency, and extensive railway know-how.

FORTEC
POWER

Facts

Input:

14.4 V to 154 V (one device)

Output:

- 12 V

Power

- 50 W, continuous, no derating

Others

- Galvanically isolated
- Efficiency 87-89 %
- Temperature OT4, ST1 and ST2 (-40 °C to 85 °C)
- 10 ms Hold-up-Time
- OVP, OCP, OTP
- No minimum load
- Short-circuit proof
- Active reverse polarity protection (up to 160 V)
- 84 × 44 × 26 mm
- Altitude up to 3000 m
- EN 50155, EN 50121-3-2, EN 61373, EN 45545-2

Applications

- Display solutions
- Energy meter
- Control systems
- Customer information systems

Areas of application

- Railway and applications in harsh environmental