

## DC / DC converter AER50-W, compact power supply for the railway with ultra wide input range

The Autronic AER50-W series is a brand-new generation of high performance, convection cooled 50W DC/DC converters. The AER50-W series has been designed specifically for use in railway applications and in harsh environments. Due to their compact quarter brick design the small power supplies can perfectly be used in display solutions, customer information systems, radio modules or for switches and repeaters. Additionally, due to their UL/cUL60950 certification they are a safe choice for industrial and telecommunication applications.

The electrically isolated power supplies are available with the nominal ultra wide input range of 24 to 110 VDC, including a tolerance of +/- 40%. The compact module solutions comply with the railway standard EN 50155 as well as the EMC standard EN 50121-3-2 with low external components.

The DC/DC converters certified for railway applications have a very high efficiency of up to 89 % in a compact housing and can be used for operating temperatures between -40°C and 85°C (case up to 100 °C). Optionally, the AER50-W is available with heat sink, so higher heat dissipation can be guaranteed even at higher requirements. Other product features are the high insulation (I/O 3000 Vdc), remote on/off, undervoltage shutdown, overload and over-temperature protection which provides protection against damages.

The DC/DC converter is available with single output with 5V, 12V, 24V and 48V. The outputs can be trimmed -20 % and +10 %. No minimum load is required; the start time of the converter is 30 ms.

The quarter bricks have been tested according to the Fire and Smoke EN 45545-2, and have passed the shock/vibration test according to EN 61373 (category 1, class B). Acceptance according to EN 60950-1 is available.

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