



High Performance DC/DC Converters for Harsh Railway and Industrial Environments

Highly Efficient 75W and 100W Quarter-brick DC/DC Converters

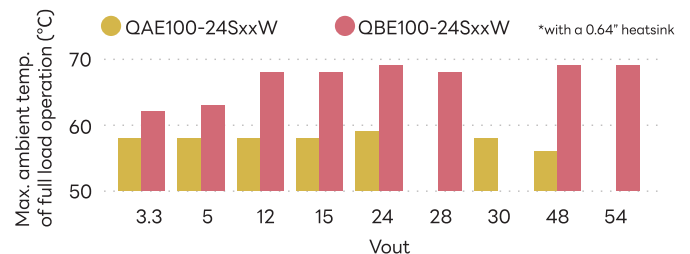
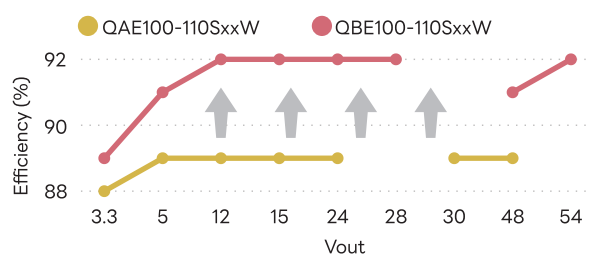
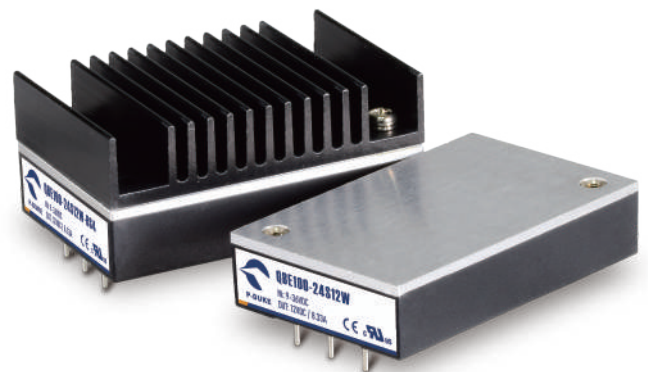
The QBE75W and QBE100W represent the latest generation of DC/DC converters, designed to seamlessly replace the QAE100W series. Engineered to meet the rigorous demands of industrial and railway (rolling stock) applications, these converters significantly enhance conversion efficiency, achieving an average of 92%. This improvement reduces power losses, allows for a wider operating temperature range, and enables smaller heatsink designs.

Featuring a versatile 4:1 input voltage range of 9 to 36 Vdc, 18 to 75 Vdc, and 40 to 160 Vdc, the QBE75W and QBE100W series cater to various power systems across different regions. They provide a comprehensive selection of output voltage options, including 3.3, 5, 12, 15, 24, 28, 48, and 54 Vdc, with an adjustable output range of +10% to -20% using an external resistor.

Equipped with multiple protective features, the QBE75W and QBE100W series ensure system safety through over-current protection (hiccup mode), output over-voltage protection (hiccup mode), continuous and auto-recovery output short-circuit protection, input under-voltage lockout, output remote sensing, and remote control capabilities. They are certified to comply with industry standards such as IEC/EN/UL62368-1, EN 50155, and EN 45545.

Designed to withstand harsh environments and demanding conditions in the railway and industrial sectors, the QBE series meets MIL-STD 810F and EN 61373 standards for vibration and mechanical shock, and operates effectively at altitudes up to 5000 meters. This makes them an excellent choice for powering electronic devices in rolling stock, offering high reliability and stability.

QBE75W Series QBE100W Series DC/DC Converters



Features

- 75W & 100W Output Power
- 4:1 Wide Input Range: 9-36, 18-75, and 40-160Vdc
- Output Voltage: 3.3, 5, 12, 15, 24, 28, 48, and 54Vdc
- 3000Vac Reinforced Insulation for 110VIn
- 2250Vdc Basic Insulation for 24 and 48VIn
- 5000m Operating Altitude
- EN 50155, IEC/UL/EN 62368-1 Safety Approval (*pending)
- 3 Years Product Warranty

Applications

- TCMS
- Passenger Information System
- Lighting System
- Air Conditioning and Ventilation
- Industrial Robots
- Human-Machine Interface

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