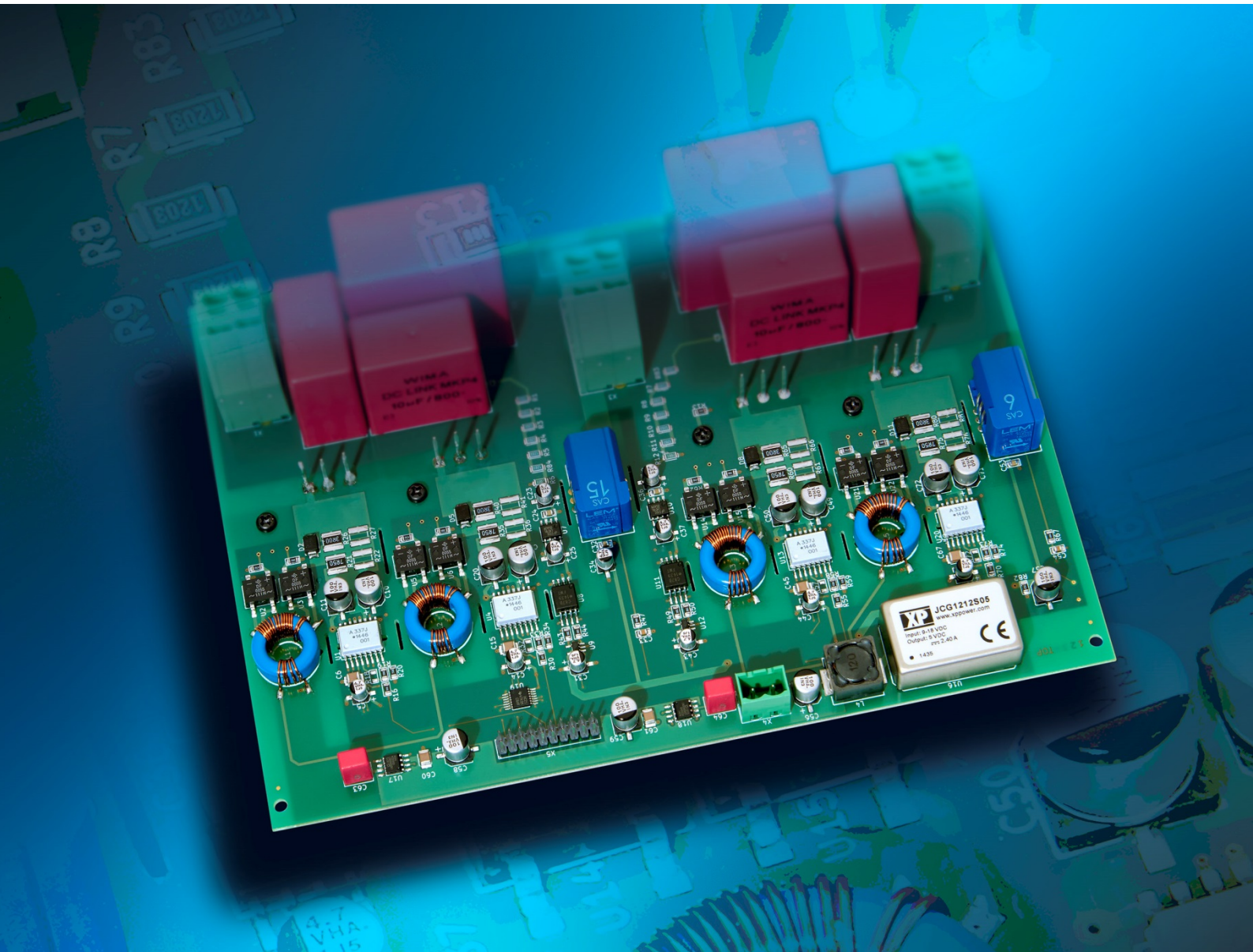
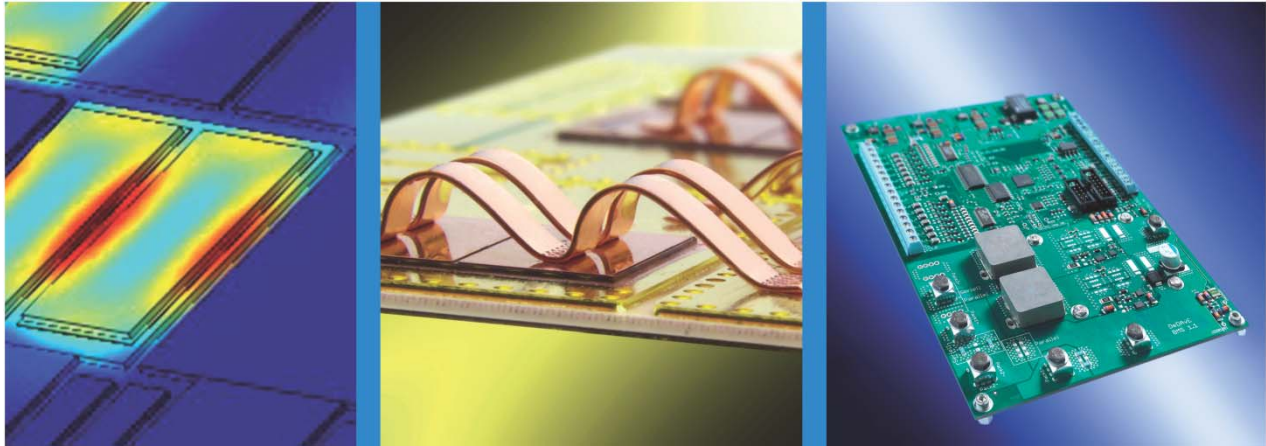


APPLICATION CENTER POWER ELECTRONICS FOR RENEWABLE ENERGY SYSTEMS

- | High efficient and reliable DC/DC- and DC/AC-converter
- | Online condition monitoring for power converters
- | Simulation-based virtual prototyping





The Application Center offers services in the following areas

Semiconductors

- Characterization of devices
- Lifetime expectation analysis
- Lifetime prediction
- Strain models
- Simulation tools
- High precision test bench for device characterization

Converters

- High efficient DC/DC- and DC/AC-converter
- Inductivity and capacity optimized circuit board design
- Soft switching topologies

Smart power electronics

- Diagnostic methods and adaptive control
- Model-based, flexible and precise diagnosis
- Software/hardware package for online condition monitoring

Grid integration

- Model-based control methods for grid quality improvement
- Measurement equipment for harmonics
- Modeling, analyzing and solution development
- Optimization of ancillary services

Contact:

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