

High-Current High-Conversion-Ratio DC-DC Converter for Super-Capacitor Charging Applications

The design of an optimised bi-directional DC-DC converter that is capable of charging and discharging super-capacitor banks.

Competitive advantage

- Class-leading and unique, with:
- Both digital and analogue control
- High-efficiency and high-reliability
- Cost-effective design

Impact

- Improves the efficiency of energy management systems
- Makes energy recovery economically viable in CDI water treatment systems.

Successful applications

• Customized high-current DC-DC converter for capacitive de-ionisation technology to treat underground brackish water.

Capabilities and facilities

- High-bandwidth, high-current probes
- High-bandwidth, high-resolution oscilloscope
- Real-time hardware-in-the-loop simulation platform
- Power device analyser

Our partners

- Instrument Works
- Goldwind Environmental

More Information

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