

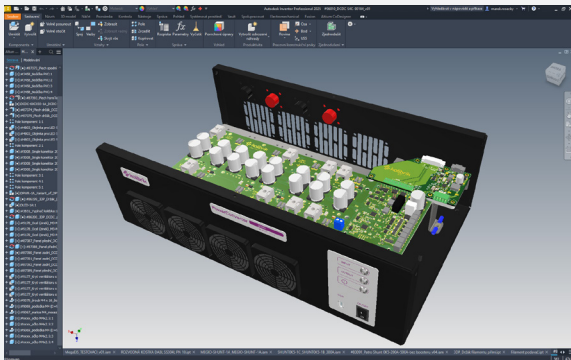
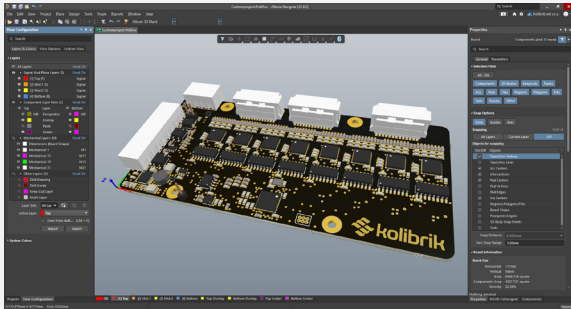
Custom Development Projects for

- EIS
- DC/DC
- CVM
- Controllers

We cooperate on custom R&D projects with research institutions, universities, and companies across the world.

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www.kolibrik.net



Cell Voltage Monitoring

- CVM is designed for monitoring fuel cell stacks, electrolyzers, and batteries with high speed and high accuracy.



ADC resolution	24 bit
RMS Noise	<10 ... 100 μ V
Cells	24 ... 1280
Accuracy	0.05 %
Acquisition speed	500 Hz / each channel

CAN / RS485 / SB



EIS Measuring Instruments and Electronics for Batteries, Fuel Cells, and Electrolyzers

Designed for hydrogen

- MegaEIS System
- Potentiostat/Galvanostat
- Cell Voltage Monitoring
- Power DC/DC Converter
- R&D and custom design



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MegaEIS System

- Multi-channel EIS analyzer for batteries, fuel cell and electrolyzer stacks.
- Designed for high current and high power stacks.

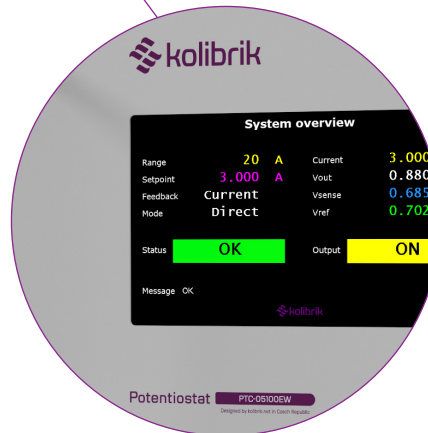


Voltage	up to 1000 V
Current	up to 2000 A
Multi-channel EIS	1 mHz ... 100 kHz

Up to 1024 channels

Potentiostat/ Galvanostat

- Potentiostats are designed for EIS analysis of single fuel cells, electrolyzer, or batteries.
- With our unique source/load booster, you can extend current up to 2000 A.



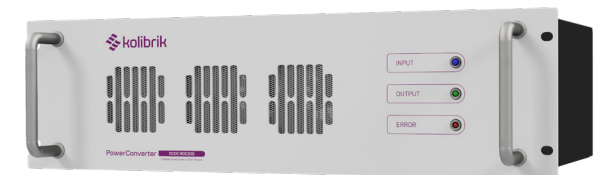
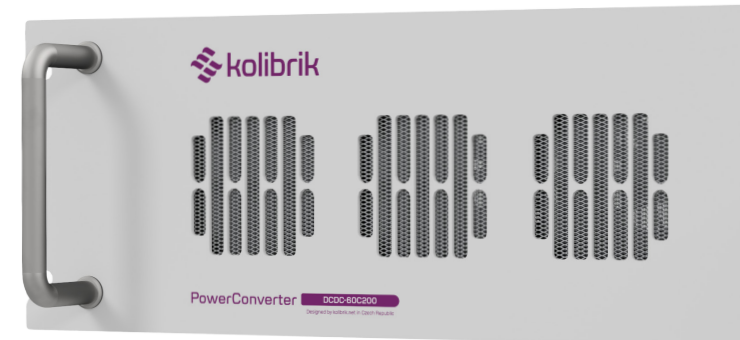
Voltage	up to ± 10 V
Current	up to ± 100 A
EIS	1 mHz ... 100 kHz

Booster option up to 2000 A with zero voltage capability

Power DC/DC Converters



- DC/DC converters are designed for hydrogen fuel stacks.



Voltage	90 V / 144 V
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Power	up to 15 kW
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Step-up & Step-down

Constant current / constant voltage

Analog / digital control