



Fuel Cell Test Station PTS-50

Key features

Suitable for low-temperature PEM fuel cells

Automatic control of flow rate, humidity, temperature and back pressure

Variety of electronic loads and potentiostats available

Cell/stack temperature control with liquid cooling

Robust system based on industrial PLC with data logging into SQL database

Safety features for fully automated operation

Testing of short stacks or large-area single cells
1 - 4 kW

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Specifications

Power Range:

1 - 4 kW

Fuel Flow-Rate Range:

2 - 100 slpm

Dew-Point Temperature Range:

up to 90 °C

Options:

Zero-voltage load, potentiostat with EIS, cell/stack pre-heating

Applications

Ideally suited for research and development of large-area single cells or verification of stack design on short-stack level. Well-defined and repeatable conditions of Leancat PTS-50 enable benchmarking of fuel cells also thanks to extensive scripting possibilities.

Max. current:

1200 A

Oxidant Flow-Rate Range:

7.2 - 360 slpm

Gas Pre-Heating Temperature Range:

up to 120 °C

Back-Pressure Control Range:

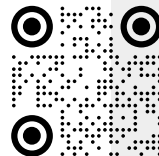
up to 3 bar(g)

Cell Voltage Monitoring:

Customizable number of channels

Liquid cooling of cell/stack:

up to 95 °C



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