

SOFC DFC Stack Module 100W

- 100W stack of double sided solid oxide fuel cells (DFC) – innovative, patented technology developed at HydrogenTech
- No metallic interconnectors between cells
- Stack closed in thermal enclosure with gas and electrical connections
- Fuel and air preheater integrated
- Easy temperature and cell voltage monitoring
- Fuel flexibility – hydrogen, methane, natural gas, biogas
- Dimensions: 0,6 x 0,4 x 0,6 [m] (LxWxH)



Features

- 100W SOFC stack in unique DFC technology
- Thermal enclosure with fuel and air preheater integrated
- Simple gas and electrical connections
 - Quick startup

Applications

- Laboratory testing
 - Research and development
- SOFC technology demonstrators

Key Technical Specifications

Rated power	100 W
Number of unit cells	10 pcs
Maximum voltage (OCV, H ₂)	12 V
Minimum voltage	7 V
Nominal current	8 A
Operating temperature	700 – 750 °C
Air utilization	5-30%
Maximum fuel utilization	Up to 80%
Maximum air preheater power (integrated)	2,5 kW
Volumetric air flow	5-50 NI/min
Electrical efficiency	> 65 %
Internal reforming	Yes
Minimum S/C	2,5
Integrated passive fuel preheater	Yes
Integrated thermal enclosure	Yes