



The Fuel Cell System

- Cost-effective CHP fuel cell system with 100 kW electrical output
- Compact structure and modular extension for electrical output up to MW level
- Parallel generation of heat and power, free from noise or vibration
- Environment-friendly energy generation without local emissions
- High electrical efficiency through the direct use of hydrogen

Technical Data

Electric output max.	kWel	100
Thermal output max.	kWth	130
Electrical efficiency	%	Up to 54*
Total efficiency (Hi)	%	101
Electrical connection	V	400 (3AC 50/60 Hz)
Ambient temperature	°C	+5 to +45
Dimension (HxWxD)	m	1,95 x 3,00 x 0,80
Weight	kg	2150
Mass flow H ₂	kg/h	7
Flow temperature	°C	Till 70
Hydrogen		ISO 14687-2 und SAE J2719

* Depend on the operating point



Ready for the Hydrogen Energy Era?

Modular Structure

Basic module (Basic set)

- CHP fuel cell system
- Mains parallel operation
- Remote control

Extension module Island Operation (optional)

- Blackstart capability independent from grid
- Implementing island operation with energy storage & control system

Extension module Smart Services (optional)

- Configured to be used as uninterruptible power supply (UPS)
- Providing grid services to increase revenue
- Preventive maintenance

Modular Service

Basic package (Basic set)

- Installation and commissioning
- Legal warranty

Maintenance & Repair package (optional)

- HEE takes care for maintenance and repair of your CHP fuel cell system

Operation package (optional)

- HEE operates the CHP fuel cell system for you

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