



inhouse 5000+ hydrogen

an innovative fuel cell system for stationary power generation



specification*

fuel cell type	LT-PEM
fuels	Hydrogen (Quality 5.0)
H2 consumption	3,0 Nm ³ /h 0,269 Kg/h
nominal power electrical	4,2 kW (5 kW gross)
nominal power thermal	4,3 kW
total efficiency	approx 95 %
electrical efficiency	approx 50 %
temperature heating circuit (RT/ST)	max. 50 / 65 °C
cold start time appr.	approx 20 min
alternation of load 25 – 100 %	approx 15 min
dimensions (w x h x d)	740 x 1550 x 1231 mm ³
weight appr.	430 kg

*valid under standard test conditions



✓ sustainable

- high efficient technology
- Electricity and Heat based on Hydrogen
- resource saving due to high utilization



✓ eco - friendly

- no soot, no fine dust
- no emissions of CO₂ and NOx
- only water vapor/air
- low noise emissions



✓ trendsetting

- simple installation
- a lot of use cases e.g. Electro mobility
- can be combined with other technologies like heat pumps



✓ economically

- stable energy costs
- stable operating costs

Applications

- | | | | |
|---------------------|--------------------------|--------------------------------------|----------------------|
| • Multifamily homes | • Office buildings | • Retirement homes | • H2 filling station |
| • Housing societies | • Hotels and Restaurants | • small and medium sized Enterprises | |

The use of our fuel cell based CHP system is useful with a demand of more than 60.000 kWh/year and electrical energy of more than 25.000 kWh/a.

Power nach Maß – Made in Germany