

FUEL CELL MODULE

TECHNOLOGY

On the basis of our proprietary fuel cell stacks, we offer advanced fuel cell modules with power outputs ranging from 5 to 250 kW. Each module is designed for easy system integration and comes equipped with all of the essential balance-of-plant components, including integrated DC/DC converters and air compressors. To operate the system, only three external connections are needed: an air supply, a hydrogen supply, and a heat exchanger for waste heat management.

Our fuel cell modules offer flexible power scalability. They can be used as a stand-alone unit or in modular combinations. They are suitable for a broad range of mobile and stationary applications. These include material handling, commercial vehicles, power generators, and system integration projects.

FEATURES

- Power range of 5 kW to 250 kW
- Operation temperature from -30 °C to 55 °C
- Lifetime up to 30000 h
- Compact system and high system efficiencies
- Environmental protection with IP67 and SAEJ2380
- all systems are delivered with an (integrated) air compressor and DCDC*
- Highly efficient hydrogen recirculation and advanced humidification

USE CASES

Fuel Cell City Buses

Fuel cell buses enable emission-free travel on demanding routes and long distances and are useful in areas with a strained power grid.

Fuel Cell Trucks

Trucks for city cleaning and other tasks, and for long-distance transport of goods, are well suited for fuel cell systems to meet emission targets.

Fuel Cell for Data Centers

Stricter emission regulations create an increasingly challenging environment for emergency power supplies. Fuel cell systems offer a low-maintenance, cost-efficient, long-lasting alternative.

PRODUCT SPECIFICATIONS



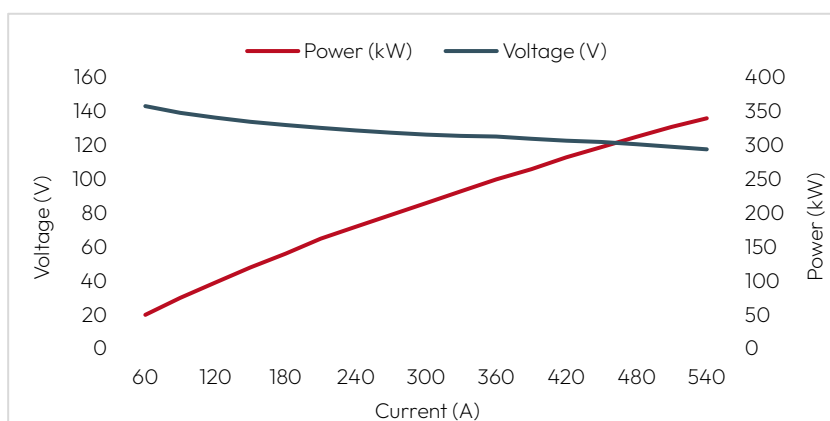
	VISTAH 30	VISTAH 60	VISTAH 80	VISTAH 110	VISTAH 130	VISTAH 200
Rated power	30 kW	60 kW	80 kW	100 kW	130 kW	200 kW
Idle Power	3 kW	5 kW	6 kW	9 kW	10 kW	15 kW
Stack operation voltage	80 – 125 V	110 – 220 V	170 – 290 V	260 – 460 V	280 – 380 V	360 – 560 V
Dimensions	911x511x657 mm	980x560x700 mm	938x714x717 mm	1100x671x677 mm	1120x717x695 mm	1094x746x988 mm
Integrated Components*		AC	AC & DCDC		AC & DCDC	AC & DCDC

PERFORMANCE

PERFORMANCE OF A VISTAH 130 130 KW RATED SYSTEM POWER

Test conditions:

- Ambient temperature: 20 °C
- Ambient humidity: 50 % to 60 %



ABOUT VINUITY

We are a dedicated and dynamic team committed to advancing clean energy technologies across Europe. Our German location, combined with extensive practical experience and field-tested data, forms the basis of our work and ensures measurable added value for our partners.

As part of the Vision Group, we use established production capacities and a comprehensive product portfolio to deliver optimal fuel cell solutions for every requirement. From individual fuel cell stacks and modules to fully integrated energy

systems, we offer customized solutions that set new standards in terms of efficiency and reliability. Our international customers benefit from a reliable service network of over 40 countries and regions worldwide.

GET IN TOUCH

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