

Nexa[®] 1200

Technical Data Sheet | Fuel Cell System

The Nexa[®] 1200 convinces with a high system efficiency and service life. The system is based on the modern FCgen[™] 1020 stack from Ballard and provides an output power of 1.2 kW.



- » Integrated mounting rails for flexible installation
- » Central interface unit
- » Communication via CAN bus & OPC UA
- » High system efficiency
- » High safety standards
- » System warranty: 1500 hours
- » Quiet operation

Simple Integration

The fully-integrated module is built flat and has an enclosed, robust housing. Integrated profile rails offer simple mounting options. The optimized form factor enables easy integration in 19" systems.¹

High Level of System Efficiency

An innovative system design and the selection of energy efficient peripheral components allow an overall system efficiency of more than 50 %.

High Safety Standards

Safety is a top priority for the Nexa[®]. All relevant operating parameters are continuously monitored, and the system shuts down automatically in the event of an electrical or mechanical fault. An integrated hydrogen sensor provides additional monitoring.

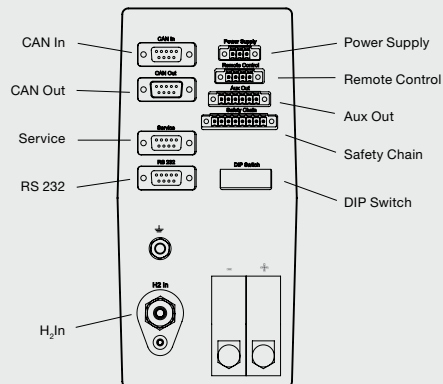
¹ Available with an optional 19" bracket for rack assembling (19" corresponds to 48,26 cm)

Communicative System

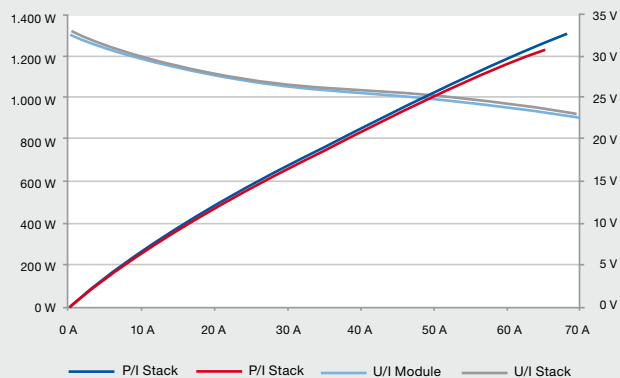
The Nexa[®] 1200 has tolerant and easily accessible interfaces. A central interface hub at the rear of the system combines all connectors in one place. The system communicates via CAN-Bus.

Heliocentris offers various accessories to adapt the system to different applications.

Interface Unit



Power Curve



Technical Data

Nexa® Fuel Cell Power Module

Fuel Cell Type PEM, open cathode

Performance

Rated power (at 25° C) 1200 W

Output voltage (nominal) 20 - 36 VDC

Output current max. 60 A

Net efficiency ¹ 50 %

Fuel

Type Hydrogen

Purity min. 3.5 (99.95 %)

Consumption ¹ 15 NL/min

Cooling

Coolant Forced air

Air flow ¹ 335 m³/h

Connectors

DC Out 16-50 mm², screw terminal

Hydrogen In 6 mm tube

Physical

Size (H x W x D) 220 x 400 x 550 mm

Weight approx. 22 kg

Ambient temperature 5 - 40° C

¹ at rated output



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System Extension

Nexa® DC1200

DC / DC converter



The DC/DC converter enables hybrid mode, which combines the Nexa® 1200 fuel cell module with batteries.

- » Regulated output voltage 24 / 48 VDC
- » Load control
- » Battery monitoring
- » Battery charging control and deep discharge protection
- » Parameterization via PC software