

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
- » High system efficiency
- » 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 %.

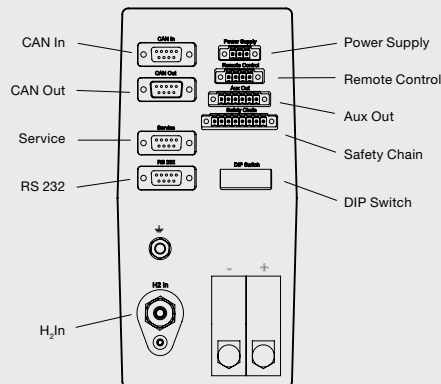
Communicative System

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.

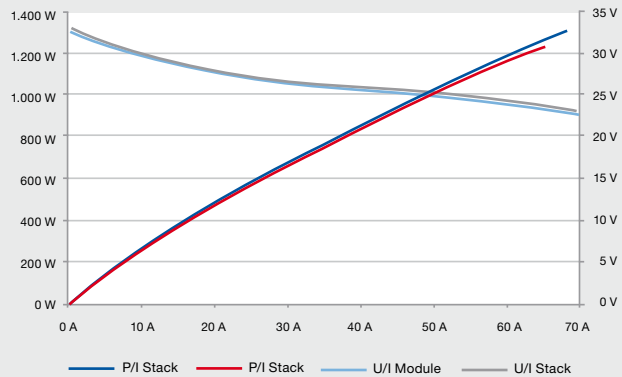
Heliocentris offers various accessories to adapt the system to different applications.

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

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 slpm
Cooling	
Coolant	Forced air
Air flow ¹	335 m ³ /h
Connectors	
DC Out	16-50 mm ² , 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



System Extension

Nexa® DC1200 DC / DC converter



The DC / DC converter enables the combination of Nexa® 1200 fuel cell module with batteries.

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

Heliocentris Academia International GmbH

Rudower Chaussee 30
 Berlin, Germany
 Tel.: +49 (0) 30 34 06 01 600
 sales@heliocentrisacademia.com
 www.heliocentrisacademia.com