

# Uninterruptible Power Supply

Reference

## Fuel cell system as a substitute for a conventional uninterruptible power supply with batteries.

The system is based on the Heliocentris Nexa<sup>®</sup> 1200 fuel cell module. An integrated, highly-efficient DC/DC converter, specially developed for the Nexa<sup>®</sup> 1200, generates a regulated system voltage of 24 VDC, which is buffered by a small battery. All components are integrated in an indoor enclosure. The overall system control and the data recording take place through the Heliocentris Nexa<sup>®</sup> OSC software.

The system was tested extensively over a period of six months in both short-term and long-term operation. Additional tests dealt with energy efficiency, overloading and serviceability.

The suitability of the Nexa<sup>®</sup> 1200 system program for the realization of industrial emergency power supply was successfully verified.



### Technical Data

Fuel cell system	Nexa <sup>®</sup> 1200
Rated output	1.2 kW
Rated voltage	24 VDC
Fuel	Hydrogen 5.0
Battery capacity	16 Ah
Housing dimensions (WxHxD)	700 x 1,400 x 800 mm



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