



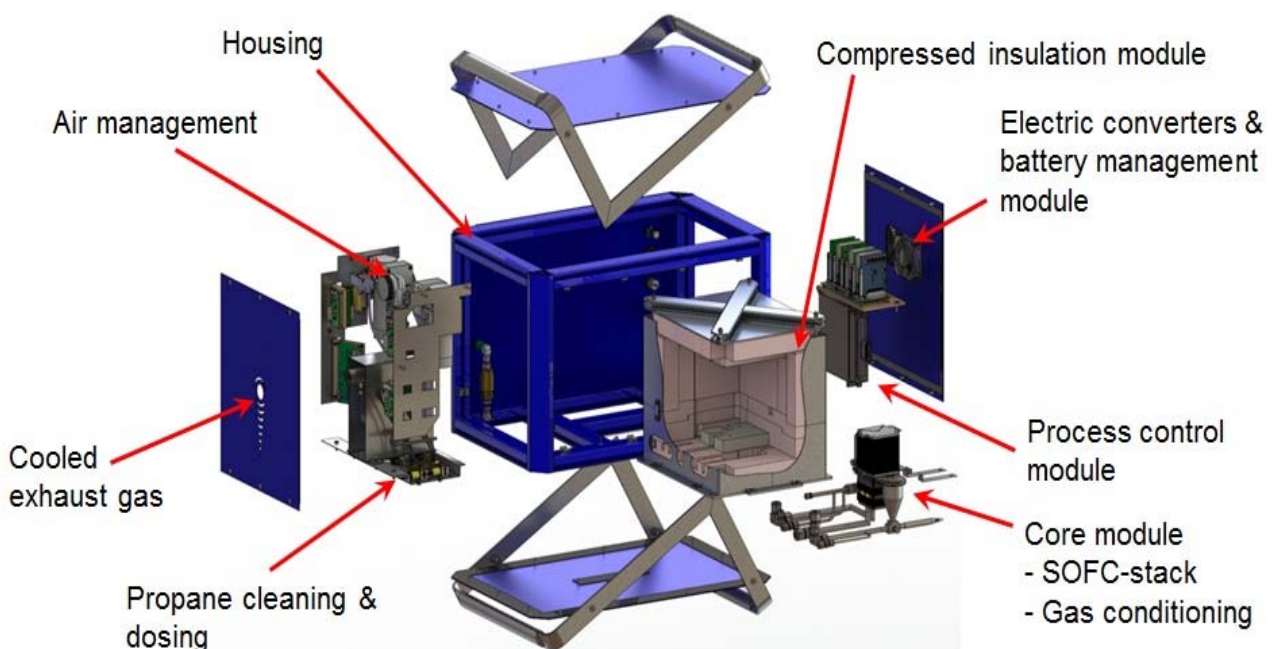
eneramic[®] – by Fraunhofer



100 W Fuel Cell Power Generator / Battery Charger

- + Low cost standard fuel: Propane / LPG
- + High durability: More than 16.000 h proven in lifetime test
- + Extremely low degradation 0,5 % per 1.000 h (continuous operation)

eneramic[®] is the most cost effective solution for off-grid power supply!





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Technical Data (preliminary)	eneramic E-2.1
Technology	Planar SOFC with CPOX reformer
Nominal power	100 W _{el}
Nominal voltage	12 / 24 V DC
Fuel	LPG, propane, butane
Nominal fuel consumption	33 g/h at nominal power
Fuel autonomy at 100 W _{el} continuous power	333 h resp. 2 weeks with one 11 kg LPG bottle 1.000 h resp. 6 weeks with one 33 kg LPG bottle > 1 year with one 300 kg LPG tank
Dimensions (L x W x H)	440 x 350 x 300 mm (compatible with 19" racks)
Recomm. battery capacity at 12 V	≥ 40 Ah
Recomm. battery capacity at 24 V	≥ 20 Ah
Weight	23 kg
Noise level	35 / 45 db A (at 7 m / 1 m)
Operating conditions	5 °C to 50 °C at -50 m to 2,000 m altitude a.s.l.
Storage temperature	-25 °C to 60 °C (system contains no liquid water)
Desulphurization	External, exchangeable cartridge
Exhaust temperature	< 70 °C
Fuel interface	Standard quick connector for LPG (Rectus, NW5)
Operating interfaces (standard)	Main switch, ON/OFF button, LED indicates operational status, remote control via laptop
Operating interfaces (optional)	Remote control and maintenance via GSM

Selected typical applications

Traffic Management | Information Systems
Oil & Gas Industry | Cathodic Corrosion Protection
Monitoring / Safety | Surveillance Systems
Leisure Applications | many more



The system is available for test & demonstration projects.

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