


The energy solution with hydrogen fuel cells

The H₂Genset is a flexible and mobile generator using hydrogen for use in areas without access to the conventional power grid, e.g. on construction sites, at outdoor events, for the temporary power supply of telecommunication masts or as a mobile emergency power supply in the event of catastrophes.

-  Environmentally friendly
-  Low maintenance
-  Remote monitoring
-  Flexible H₂ refueling

Technical highlights

Peak power output ¹	28 kW
Nominal power ²	10 kW
Integrated tanks	up to 7 pcs / 14.6 kg H ₂
Energy capacity of the integrated tanks	up to 243 kWh _{el}
Extension of an external tank & Bundle connection up to 300 bar	possible
Pressure stage internal tanks	700 bar
CE certification	yes
Dimensions excl. trailer (WxHxD)	2200 x 1600 x 1450 mm
Weight excl. trailer ³	up to 1,750 kg

¹ depending on state of charge of battery

² guaranteed nominal output power of the fuel cells DC for supply air temperatures < 30°C / 86°F.

³ incl. trailer: dimensions (LxWxH: 3830 x 1710 x 2100 mm), + Trailer weight 480 kg



Download data sheet as PDF

Areas of application



Structural and civil engineering / road construction



Emergency power supply for aid organizations and emergency services



Security and Defense



Events and film industries



H₂Genset



The mobile emission-free generator

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Visit our website for more information!
www.h2-genset.com

 Zero Emission

H₂Genset Cloud

Monitor individual generators or entire fleets conveniently and easily using a suitable IoT solution. The H₂Genset has an integrated cloud connection and can therefore be monitored using the associated web app.

Keep an eye on your H₂Genset with the included IoT application

- Usable with a mobile phone or via a browser
- Intuitive visualization and operation
- Continuous updates

Features

- Operating data and status overview
- Data analysis tools
- Security and anti-theft
- Overview of all service locations
- Overview map of H₂ filling stations



Hydrogen fuel cell technology

Thanks to the modular design with integrated EFOY hydrogen fuel cells, the performance range can be precisely tailored to suit your requirements. The H₂Genset has an integrated hydrogen tank system and uses proven fuel cell technology to provide energy cleanly and quietly. It also needs little maintenance and is inexpensive to run.



Hydrogen refuel



The H₂Genset can be refueled quickly and easily at H₂ filling stations. For even greater self-sufficiency, the H₂Genset also has a connection for an external tank, e.g. a Hydrogen bundles up to 300 bar.

- Power production from hydrogen
- Modular design with integrated tank system

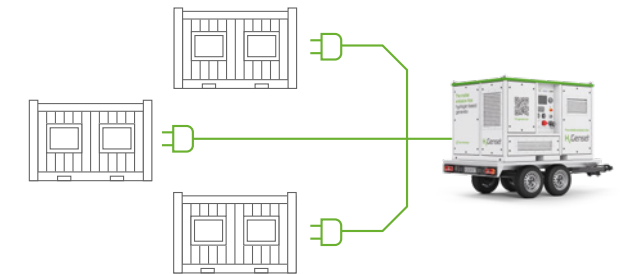


Use case green construction site

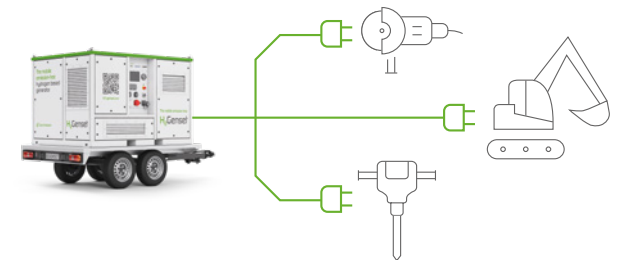
Annual savings of
90 t CO₂
compared to a
diesel generator*



Day
Operation of a container city



Night
Charge construction equipment



*For example, a 10 kW hydrogen fuel cell energy solution uses 90 tonnes less CO₂ than a conventional diesel generator at an assumed annual demand of 87,500 kilowatt hours (kWh). This corresponds to driving a diesel-powered passenger car for 500,000 kilometers.