H2 POWERBOX

Clean Energy. Simple. Future-Proof.

IMAGINE YOUR ENERGY IS EMISSION-FREE, FLEXIBLE, AND EASY TO USE.
OUR HYDROGEN-BASED PLUG-AND-PLAY ENERGY SYSTEM MAKES IT POSSIBLE!

By using green hydrogen as an energy carrier, we offer a reliable and environmentally friendly alternative to fossil fuels—helping to significantly reduce CO_2 emissions and actively contribute to the energy transition.

HIGHLIGHTS AT A GLANCE

No harmful emissions:
Generate both electrical and thermal energy.

Modular expansion:
Need more Power? No Problem.
Simply connect additional modules.

Hybrid-Ready: Easily combine the system with batteries to achieve maximum efficiency and flexibility.

SYSTEM BENEFITS

- **Easy installation:**
  Plug-and-play technology enables quick and straightforward setup.
  With user-friendly configuration and standardized connections, the system can be operational in no time—without complex preparations.

- **Adaptable to your needs:**
  Whether for private use or commercial applications—the system can be customized to meet your requirements. This flexibility allows usage in both small applications like supplying a single-family home and larger commercial setups.
- **High efficiency and cost savings:**
  The combination of hydrogen technology and battery storage ensures highly efficient energy generation and usage. Surplus energy is stored and used when needed, reducing energy costs and maximizing efficiency.

Choose a sustainable energy solution that is easy to use and future-proof. Benefit from a system specifically designed to provide energy supply that is emission-free, efficient, and flexible.

TOGETHER, WE LAY THE FOUNDATION FOR A MORE SUSTAINABLE WORLD!

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TECHNICAL SPECIFICATIONS

Model	SG – 3,6	SG – 5

Electric Interface		
Current Range [A]	0-150	
Voltage Range [VDC]	24 - 36	
Peak Power [kW]	5	6,5
Nominal Continuous Power [kW]	3,6	5
Minimum Continuous Power [kW]	0,3	1,5
Supply Voltage [VDC]	24 V	
Power Consumption at Peak Power [kW]	0,25	0,25
Electrical System Efficiency [%]	Up to 60 ... 66 %	Up to 60 ... 66 %

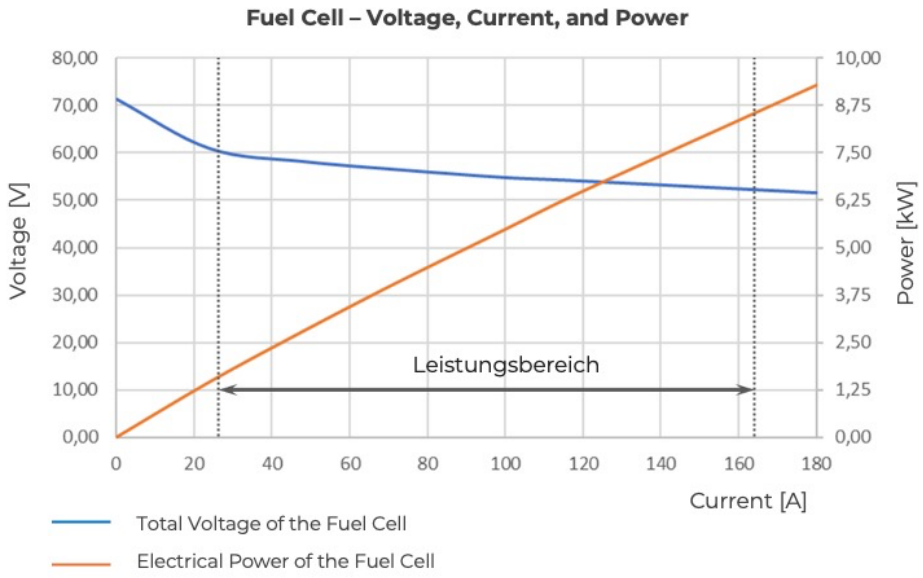
Hydrogen		
Hydrogene Quality [1]	ISO 14687-2 / SAE J2719	
Inlet Pressure [bar]	1,4	1,4
Hydrogen Consumption at Peak Power [kg/h]	0,2	0,27

Cooling Water Interface	
Flow Temperature [°C]	-20 to +45
Return Temperature [°C]	Up to +70

Enviroment	
Operating Ambient Temperature [°C]	-20 to +45
Storage & Transport Temperature [°C]	-20 to +60
Operating Altitude [m]	Up to 2000

Dimension / Weight / Communication	
L x W x H [mm x mm x mm]	830x267x257
Weight [kg]	18,5 kg
Communication [1]	CAN

POWER RANGE OF THE FUEL CELL SYSTEM



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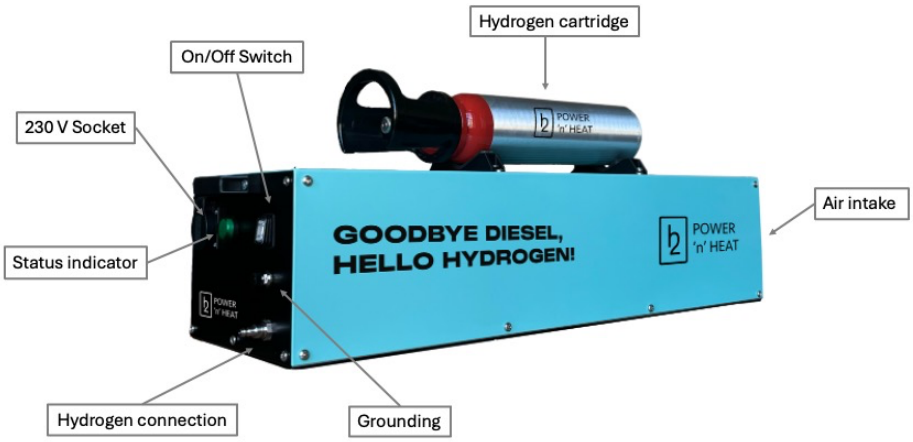

ACCESSORIES

- Exchangeable metal hydride cartridge
- Hydrogen connection hose
- Pressure reducer for H2 supply from 350 bar hydrogen storage
- Additional special accessories available on request
  (Low-pressure hydrogen storage for safe transport and storage)