Fuel Cells · Power Systems

Proton Motor
Fuel Cell Stacks and Systems

Cleantech Competence

20 Years
Made in Germany

USE CASE

Stationary

PM Cube

Emergency Power Supply – Indoor use

Cooperation with Deutsche Bahnbau Gruppe

Proton Motor provides fuel cell based emergency power supply units to the DB Bahnbau Gruppe. DB Bahnbau Gruppe will utilize the FC EPS systems instead of diesel generator EPS systems.

DB Bahnbau Gruppe

Main benefits

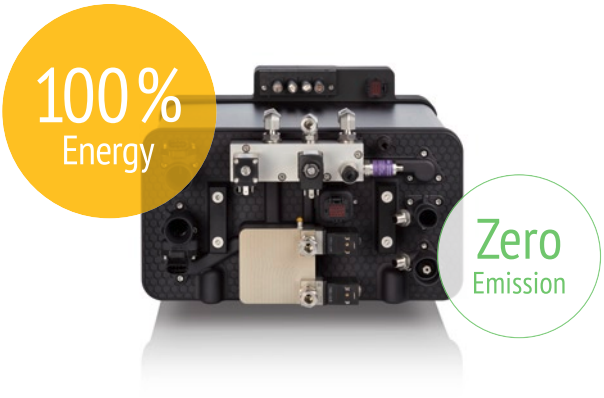
- Wide Range of power levels
- Combination with battery package possible
- Zero Emission
- Silent operation
- Positive Image
- Customizable
- High Efficiency
- Short Refuelling Time
- Long Life Time
- High Reliability

PM Cube Indoor Use Case

Electrical System	
Nominal Power [kW]	20
Output Voltage [V DC]	220
Supply Voltage [V AC, Hz]	230; 50
Consumption of auxiliaries [W]	1,900
Hydrogen System	
Hydrogen Quality	ISO 14687-2 / SAE J2719
H2 Supply Pressure [bar_g]	6 ±1
Cooling System	
Coolant	Liquid
Coolant inlet temperature [°C]	< 45
Environmental Conditions	
Ambient Temperature [°C]	5 to 40
Dimensions / Others	
L x W x H [mm x mm x mm]	2,400 x 800 x 2,150
Installation Site	Indoor

Options
Air cooler
Hydrogen Detector
Heat Extraction
Hydrogen Pressure Regulator Station
Battery
DC/AC

Errors excepted, technical changes reserved
Product specifications are subject to change without further notification



PM 200 Stack Module inside

Fuel Cell Stack Module 2–16 kW

Emergency Power Supply – Indoor use

Scalable system for up to 3 x S8 with DC link. Scalable and redundant power output in 8kW steps. Optional battery storage and AC Grid connection possible.

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