

PM Modules PM 200 / PM 400

Modular and universal Fuel Cell Systems up to 75 kW

Package Components

H₂



Air



PM Stack Module inside

2–16 kW / 15–75 kW



Electricity



Cooling



Controls

Typical application areas

- Emergency power supply
 - Railway infrastructure
 - Telecom / radio stations
 - Securing critical infrastructure
 - Industry and data centres
- Applications in combination with energy storage
 - Energy autonomous residential and industrial complexes
 - Re-electrification of hydrogen produced from renewables
- Off-grid power supply (insular solutions)
- Grid integrated solutions for emergency power or grid support

Main benefits

- Emissions-free solution for generating electrical and thermal energy from hydrogen
- Very high efficiency and reliability
- Long life span
- Easy installation and service
- Flexible use
- Low maintenance / low maintenance costs
- Parallel operation of several modules
- High operational safety
- Online monitoring
- Water cooling / use of process heat
- Simple hybridization with batteries
- Universal 19" rack for easy installation and service

PM Modules

PM Module (Examples)	S5	S8	S30
Electrical System			
Power Range [kW]	1.2-4.7	1.6-7.8	3.9-30.0
Current Range [A]	0-110	0-150	0-500
Output Range [V DC]	29-58	38-115	38-115
El. System Efficiency [%]	> 56	> 57	> 46
Hydrogen System			
Hydrogen Quality	ISO 14687-2 / SAE J2719		
H2 Supply Pressure [bar _g]	1.2-8.0		
Hydrogen Consumption (max) [kg/h]	0.34	0.55	1.50
Environmental Conditions			
Ambient Temperature [°C] Operation:	+5 to +40	+5 to +40	+5 to +45
Storage & Transport:	-20 to +60	-20 to +60	-30 to +70
Operating Altitude* [m]	< 2,000		
Humidity** [% r.H.]	< 95		
Lifetime [op. hrs.]	> 20,000		
Dimensions / Others			
LxWxH [mm x mm x mm]	785 x 465 x 308	785 x 465 x 308	1000 x 600 x 1100
Volume [l]	112.4	112.4	660.0
Tare weight [kg]	77	79	260
Conformity	CE, EN 62282-2 / -3		

* without de-rating
** non condensing

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



PM Module S5/S8



PM Module S30

The modular and universal Fuel Cell systems for stationary applications

Development by Proton Motor including peripheral components for stationary use in compact dimensions. Flexible and adaptable to multiple applications, reliable and predictable thanks to Proton Motor's round services. Individual customer applications can be fulfilled.

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