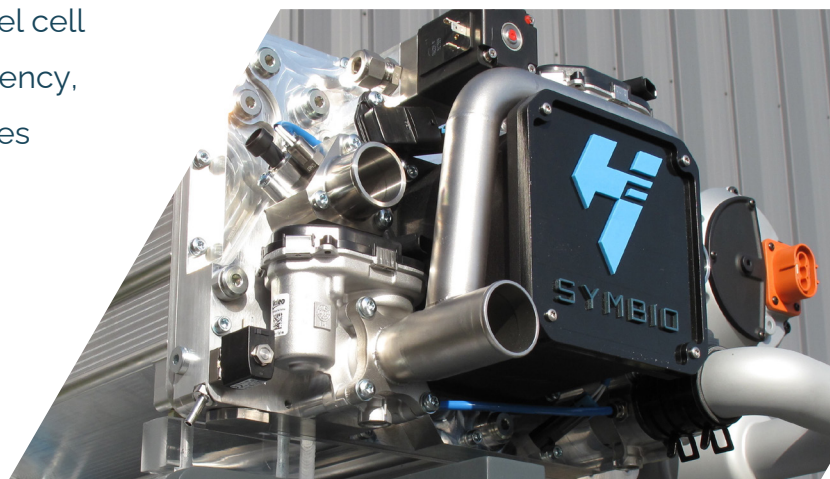




H2MOTIVE STACKPACK 300

The H2Motive StackPack 300 is a compact fuel cell solution designed for performance, high efficiency, and low heat rejection. Operating temperatures and durability are tailored for heavy duty applications. Symbio's proprietary control strategy minimizes hydrogen fuel consumption. StackPack 300 is fully compliant with applicable regulations and the ISO 26262 standard.



EFFICIENCY

BEST IN-CLASS OPERATING COST

With a system efficiency up to 60% we provide for the lowest hydrogen consumption in operation and for the best-in-class operating cost.



COMPACTNESS

BENCHMARK POWER DENSITY

With 1.03mm cell pitch, we offer the most compact systems that fit into your current engine bay with low impact n vehicle architecture.



COOLING

LOW HEAT REJECTION AND HIGH OPERATING TEMPERATURE

With low heat rejection and high operating temperature our systems require 30% less cooling capacity than the average.



DURABILITY

HIGH CELL LIFECYCLE

With a lifetime of up to 30 000 hours, we need a single uel cell for the lifecycle of the vehicle.

MOBILITY APPLICATIONS

StackPack 300 is optimised to power heavy duty trucks.

SERVICE

Symbio offers a wide range of services for OEMs & fleet operators for the deployment and maintenance of their vehicles, ensuring maximum uptime. The services include regular or predictive maintenance, remote monitoring via software or applications. Connectivity can be achieved though vehicle telematic gateway or Symbio connectivity platform depending on vehicle architecture.

PRODUCT SPECIFICATIONS

	MY 2024	MY 2027
Power (net) ¹	300 kW	
Idle power (net):	15 kW	10 kW
Durability:	20 000 hours	30 000 hours
Voltage, output range:	450 - 850V	
Current, max output:	340 A	
Control interface:	CAN 2.0 (CAN FD compatible)	
Coolant outlet temperature, max:	85 °C	95 °C
Operating ambient air temperature:	-25°C to 50°C	-30°C to 50°C
Stack power density:	4.9 kW/liter	6.7 kW/Liter
Volume:	900 L	850 L
Mass:	700 kg	
Environmental protection:	IP69K	
Regulations:	UN ECE R10, UN ECE R100, UN ECE R134, UN GTR13	
Safety standard:	ISO 26262	

¹ Power delivered by the complete fuel cell solution to the DC bus.

ABOUT SYMBIO

Symbio is a leading technology and industrial partner for sustainable mobility pioneers. A front-runner in zero-emission hydrogen mobility, Symbio combines industrial leadership, breakthrough innovation, and entrepreneurial agility to create tailor-made solutions and support its clients in the deployment of their clean mobility roadmaps.

Symbio designs and manufactures a wide range of StackPacks (pre-integrated and pre-validated fuel cell systems) that meet all power, durability, and autonomy needs of on-road and off-road hydrogen mobility.

Having the largest integrated fuel cell plant of Europe, the Group ambitions to manufacture 200,000 StackPacks annually by 2030, to accelerate the deployment of clean mobility that is respectful of both the environment and health.

An equally owned joint venture between Forvia, Michelin, and Stellantis, Symbio combines 30 years' experience, and has a track record of more than 8 million kilometers driven by its solutions.



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