MARINE

Marine System 225

PowerCell Group products generate electric power with minimal environmental impact using zero-emission hydrogen fuel cell technology.
Marine System 225 is a compact fuel cell system delivering 225 kW of clean ship power. Engineered for marine environments with high efficiency, low noise, and easy installation and serviceability. Designed to be scalable for megawatt outputs, it is easy to integrate onboad. The system is fuel-flexible and can utilise reformed renewable fuels, ensuring sustainable propulsion for the future of marine transportation.

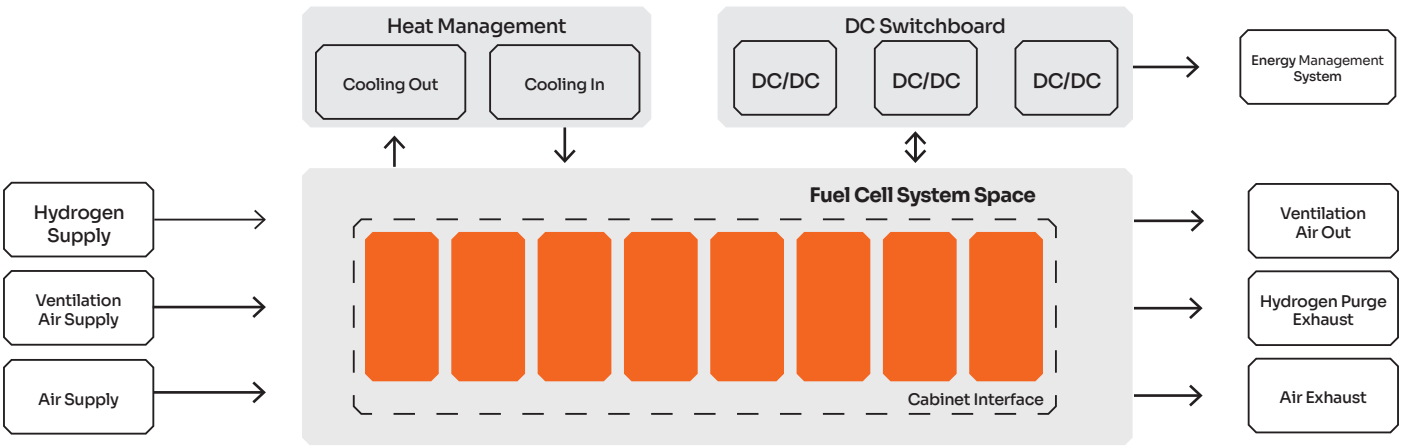
3rd Generation Marine Fuel Cell System

13 % Increased Power Output

Ready for Integration with E-fuel Solutions

Scope of supply for standard configuration

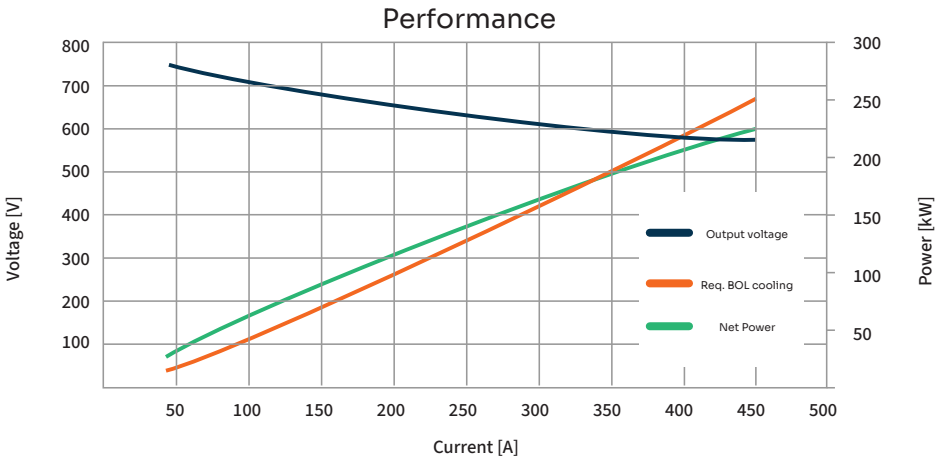
Hydrogen Stack Module (HSM)	Houses the two fuel cell stacks and the anode sub-system components
Air & Cooling Module (ACM)	The ASM consists of two parts: the main process components of the cathode sub-system as well as the complete cooling system
Electrical Cabinet (EC)	Separate cabinet for all electrical interfaces, safety processes and communication
Main Cabinet (MC)	Houses the HSM and ACM

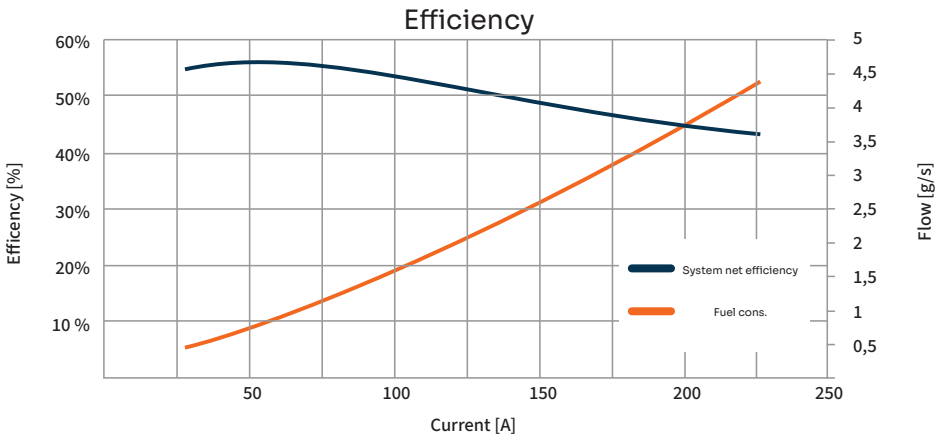


PowerCell Group | Hydrogen electric solutions

Marine System 225 [i]

Mechanical	
Dimensions (W x D x H)	1200 x 900 x 2000 mm
Weight	1000 kg
Electrical	
Net output power	225 kW
Gross output power	33-258 kW
Voltage and current output	45 – 450 A, 430 – 775 VDC (1120 VDC max)
DC supply	500 – 750 VDC, 44 – 66 A, 33 kW
Process	
Hydrogen supply pressure	3 – 8 bar(g), or 1 – 4 bar(g) [ii]
Air quality	Filtration of particle, water, salt and chemicals ingress
Certification	
Marine	Lloyd's Register Type Approval
Environment	
Marine environment	ENV1
Ambient operational temperature	5 – 45 °C





i All data is preliminary
ii Max power output depends on pressure. Contact PowerCell Sweden AB for additional information.