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GIHEUNG R&D CENTER

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History

2017 Founded VINSSSEN Co., Ltd.

2018 Established R&D Center
Acquired ISO9001:2015

2019 Acquired the Hydrogen Industry Regulation Free Zone
R&D titled "33ft H2 Electric-Powered Boat-Engineering,
Manufacturing, Sea Trial"

2020 Signed agreement to construct and demonstrate hydrogen
vessels with Jeolla Province Municipal Council

2021 Established VINSSSEN INTERNATIONAL PTE. LTD. in Singapore
Presented Hydrogenia to President Moon Jae-in in Ulsan City

2022 Acquired AIP Certificate from the Korean Register for the
120kW maritime Fuel-Cell System

2023 Delivered Hydrogen Fuel Cell System for Industry Project
in Shell Singapore
Acquired AIP Certificate from the Korean Register 100kW
Fuel Cell Module for Marine Application
Acquired AIP Certificate from the Korean Register 100kW
Fuel Cell Module for Marine Application

2024 Acquired AIP Certificate from the Korean Register 250kW
Fuel Cell Module for Marine Application
Obtained Class Approval from Bureau Veritas (BV) for the
Hydrogen Fuel Cell System for Commercial Maritime Use

2025 Acquired Type Approval from both RINA and KR for Maritime
Hydrogen Fuel Cell Stack



Company Introduction

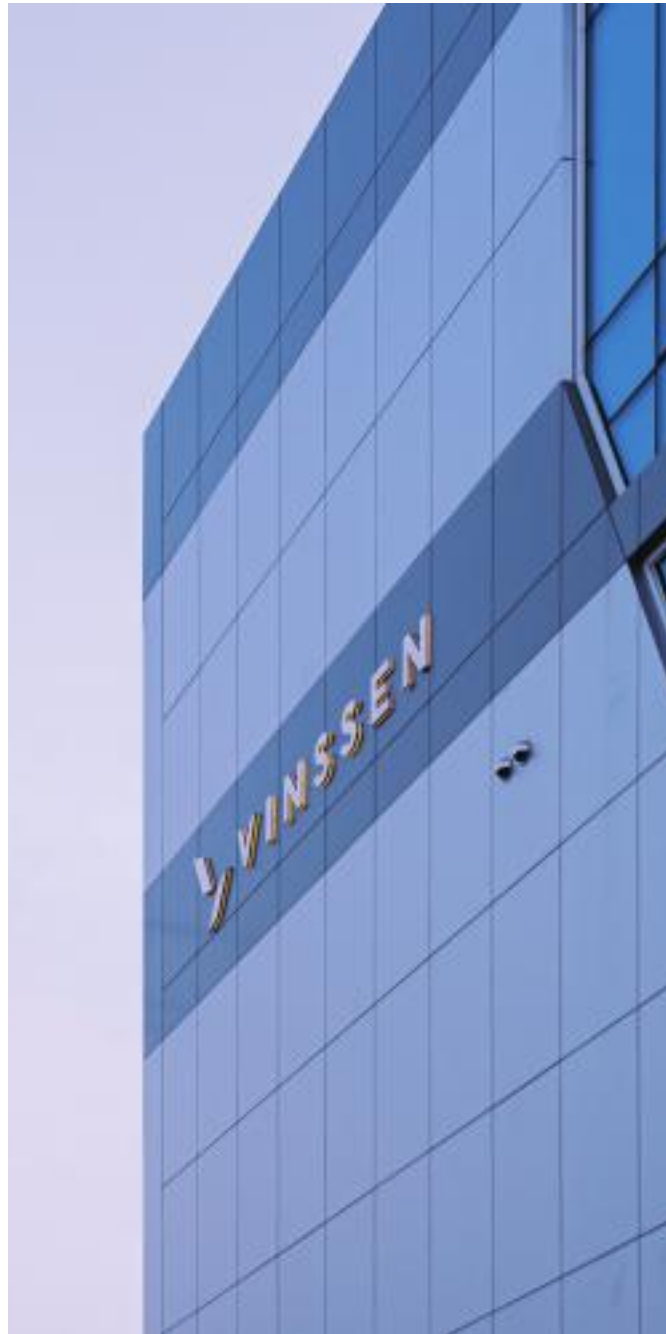
VINSSSEN is a maritime technology company leading the charge in reducing greenhouse emissions through innovative and sustainable products, solutions.

VINSSSEN is also positioned to support maritime electrification with battery solutions. When paired with batteries, fuel cells can benefit from increased efficiency and longer operational ranges.

With support from a dedicated team in Korea that has a deep affiliation with the shipbuilding industry, VINSSSEN is able to provide customized solutions for diversified use cases across a large spectrum of clients.

VINSSSEN enables the use of hydrogen (and alternative fuels like ammonia and methanol) as cleaner and more efficient energy sources for the maritime industry.

VINSSSEN offers differentiated performances via a proprietary Titanium Bipolar Plate Fuel Cell Technology, which results in better durability and weight profiles for maritime applications.



WWW.VINSSSEN.COM

World Wide Network Service



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BROCHURE



YOUTUBE



FACEBOOK



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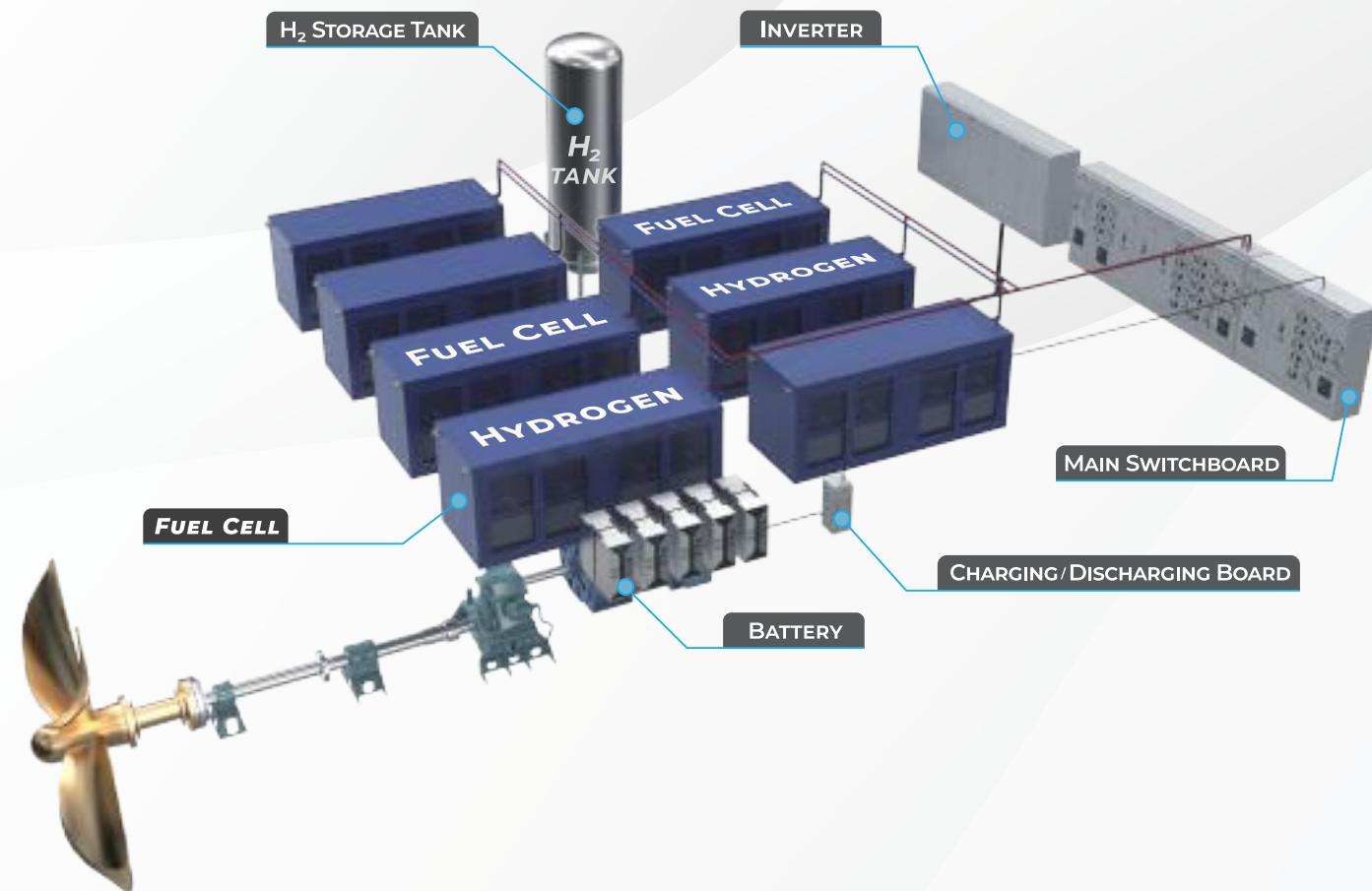
“HYDROGEN POWER” -

Empowering Maritime Decarbonization through Innovation

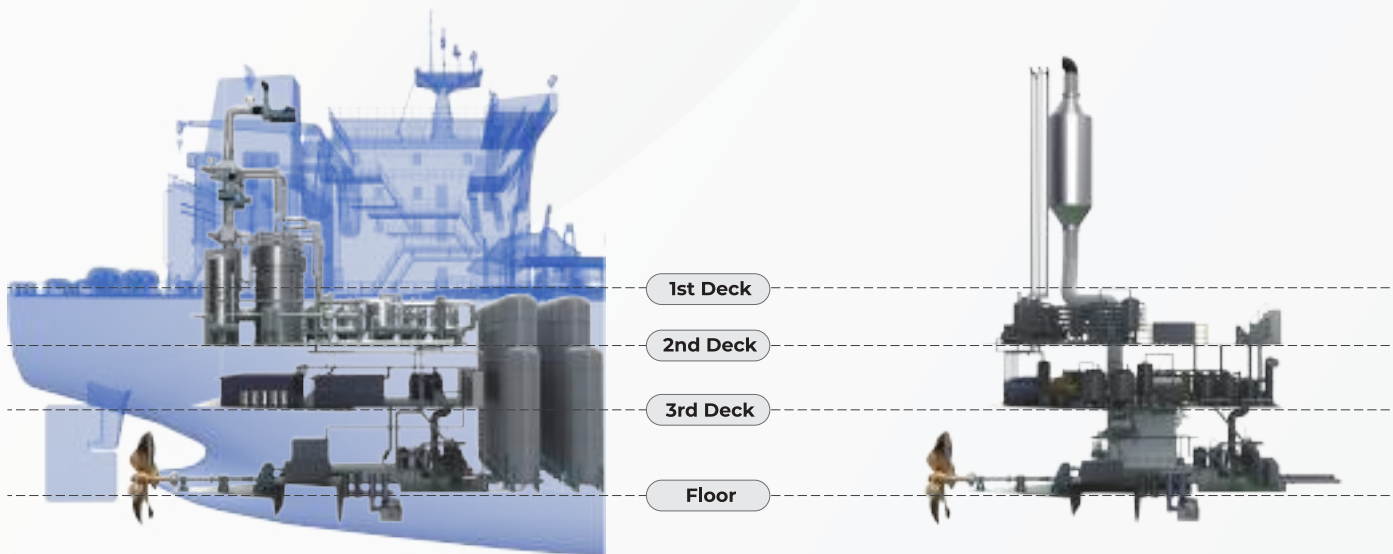


Applications

Ammonia Cracking & Fuel Cell Power System



Comparison Between Internal Combustion Engine & Fuel Cell Power System



AMMONIA CRACKING & FUEL CELL POWER SYSTEM

DIESEL PROPULSION SYSTEM

Flagship Product

Fuel Cell Power System

The Fuel Cell Module is a device that generates and supplies electricity, consisting of an integrated fuel cell module that includes a stack, BOP(Balance of Plant), DC-DC Converter, and monitoring panel.

- The MEGA FC 2.0 is a container-type product designed for easy installation and control of fuel cell modules on large ships.
- It houses eight 250kW fuel cell modules, providing a total rated output of 2.0MW.
- Additionally, there are models available for smaller vessels with 100kW as well as medium to large vessels 250kW.

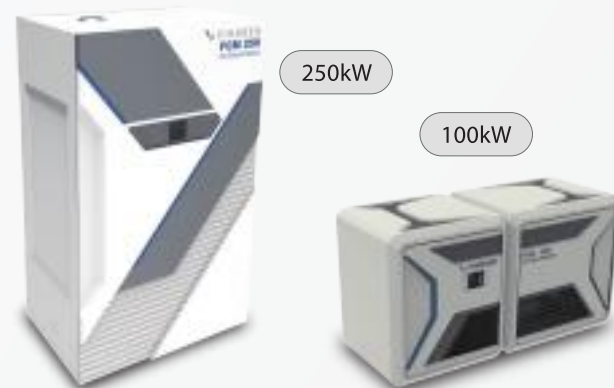
MEGA FC 2.0



Specification

Type	PEM Fuel Cell
Rated Power(Contionuous)	2.0 MW
Size(WxDxH)	6.0 x 2.5 x 2.5 (20ft Container)
H ₂ Inlet Pressure	6 ± 1 barg

FCM 100/250



Specification

	FCM 100	FCM 250
Target Application	Boat	Vessel
Installation Type	Horizontal	Vertical
H ₂ Inlet Pressure(barg)	6 ± 1	6 ± 1
Rated Power(Continuous, kW)	100	250
Ambient Temperature(°C)	5 ~ 45	5 ~ 45
Ambient Humidity(%)	0 ~ 95	0 ~ 95
Cooling Type	Water-Cooled	Water-Cooled
Ingress Protection	IP 44	IP 44
System Size(WxDxH, mm)	1,675x780x1,020	1,300x1,100x1,800

Battery System

This is a battery for marine applications, designed to supply electric power to the propulsion system and store energy generated by the electric generation system. It includes battery cells, a Battery Management System (BMS), and a protection system.



Specification

	92kWh*	113kWh
Cell Type	NCA	Li-FePO ₄
Nominal Voltage(VDC)	480	672
Max Capacity(kWh)	92	113
Charge Voltage(V)	541	756
Discharge Voltage(V)	396	567
Ingress Protection	IP 44	IP 44
Weight(kg)	755	1,500
Size(WxDxH, mm)	1,450x855x625	1,000x1,076x1,977
Communication	CAN 2.0A	CAN 2.0B & TCP/IP

*Approval for the 92 kWh battery system for power storage systems has been received from KOMSA and KR.

Eco-Friendly Pleasure Craft

8.2M Government Service Boat Electric-Battery Propulsion



Hull		Electric Propulsion	
Length Overall	8.2 m (26.9 ft)	Propulsion Type	Stern-drive
Depth	1.2 m (3.94 ft)	Cruising Speed	8.0 knots
Max Person	12 Pax	Max Speed	20.0 knots
		Battery	92 kWh x 2
		Propulsion Motor	150 kW x 1
		Hull Material	Aluminum

10M Government Service Boat Electric-Battery Propulsion



Hull		Electric Propulsion	
Length Overall	10.0 m (19.0 ft)	Propulsion Type	Stern-drive
Depth	1.0 m (3.0 ft)	Cruising Speed	7.0 knots
Max Person	12 Pax	Max Speed	12.0 knots
		Battery	92 kWh x 2
		Propulsion Motor	150 kW x 1
		Hull Material	Aluminum

17M Government Service Boat Hydrogen-Battery Propulsion



Hull		Hydrogen-Electric Propulsion	
Length Overall	17.4 m (57.0 ft)	Propulsion Type	Water-Jet
Depth	1.9 m (6.2 ft)	Cruising Speed	12.0 knots
Max Person	10 Pax	Max Speed	20.0 knots
Hull Material	Aluminum	Hydrogen Tank	18SL x 4, Type 4
		Fuel-Cell	100 kW x 2
		Battery	92 kWh x 4
		Propulsion Motor	259 kW x 2