READY IN 2026

Nedstack
FUEL CELL TECHNOLOGY

Heavy Duty Fuel Cell Power Module

For an emission-free future

PemGen

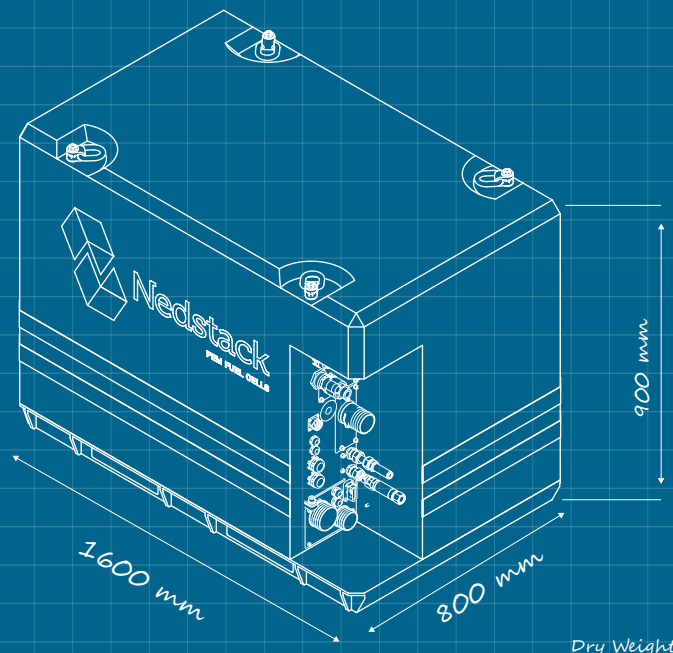
FUEL CELL POWER

DRAFT

The PemGen M is a hydrogen fuel cell system emitting only heat and water. Its compact design utilises heavy duty automotive components to provide robust and versatile operation. This innovation enhances efficiency and sustainability in stationary power generation.

Fuel Cell Power Module

**For reference only*



Dry Weight
± 850 Kg

Performance

Prime Power BoL	150 kW
Nominal Power	125 kW
Minimum Power	60 kW
Ramp Up Time	8 %/s
Start Up Time	< 10 s
Output Voltage	800 VDC
Current Range	255A

Environment

Air Supply	Ambient
Height (Altitude)	max 2000 m
Operating Temperature	-25 °C to 45 °C [1]
Storage Temperature	-25 °C to 55 °C [2]
Process Air	240 Nm^3/h

Cooling

Maximum Heat Generation (EoL)	190 kW
Coolant Supply Temperature	65 °C to 70 °C
Maximum Flow Rate	20 m^3/h

H_2 Efficiency

BoL		
	Net Power	Efficiency
100% load	150 kW	51 %
80% load	125 kW	52 %
50% load	75 kW	54 %

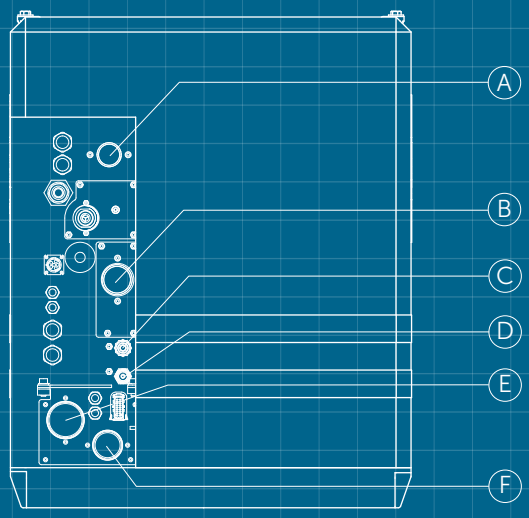
Inlet Pressure	> 2 barG
Hydrogen Standards [3]	Type 1, Grade E, Category 3 (ISO 14687-2)

Compliance

Standards	IEC 62282-3
Maritime Approval	On Request

Mobile Fuel Cell Power Module

**For reference only*



A = Coolant Out
B = Coolant In
C = Anode In
D = Anode Out
E = Cathode In
F = Cathode Out

1. *Auxiliary supply required when shutdown*
2. *Decommissioned storage only*
3. *Contact Nedstack for other hydrogen purities*

**All data are subject to change without prior notice*