

IN PRODUCTION



Containerized Fuel Cell Power Solutions

For an absolute Zero Emission future



PemGen

FUEL CELL POWER

DRAFT

The PemGen Mobile XXL is a standalone, plug-and-play hydrogen fuel cell system in a 20ft container. With integrated batteries and built-in radiators, it ensures efficient cooling and seamless operation. Producing only water as a byproduct, it delivers reliable, emission-free power for flexible and sustainable energy solutions anywhere.

Performance

Peak Power	1200 kW
Prime Power	900 kW
Nominal Power	700 kW
Ramp Up Time	20 %/s
Start Up Time	<10 s



Efficiency and hydrogen consumption

Net Output		Beginning of Life		End of Life	
110% load	1000 kW	49.5%	60.0 kg/h	-	-
100% load	900 kW	50.3%	53.1 kg/h	43.9%	60.8 kg/h
80% load	700 kW	51.9%	40.0 kg/h	45.6%	45.5 kg/h
50% load	450 kW	53.7%	25.0 kg/h	47.5%	28.2 kg/h
25% load	225 kW	51.9%	12.4 kg/h	48.4%	13.8 kg/h
5% load	50 kW	48.0%	3.2 kg/h	48.0%	3.2 kg/h

Inlet Pressure	≥ 3 barG
Hydrogen Standards ⁴	Type 1, Grade E, Category 3 (ISO 14687-2)

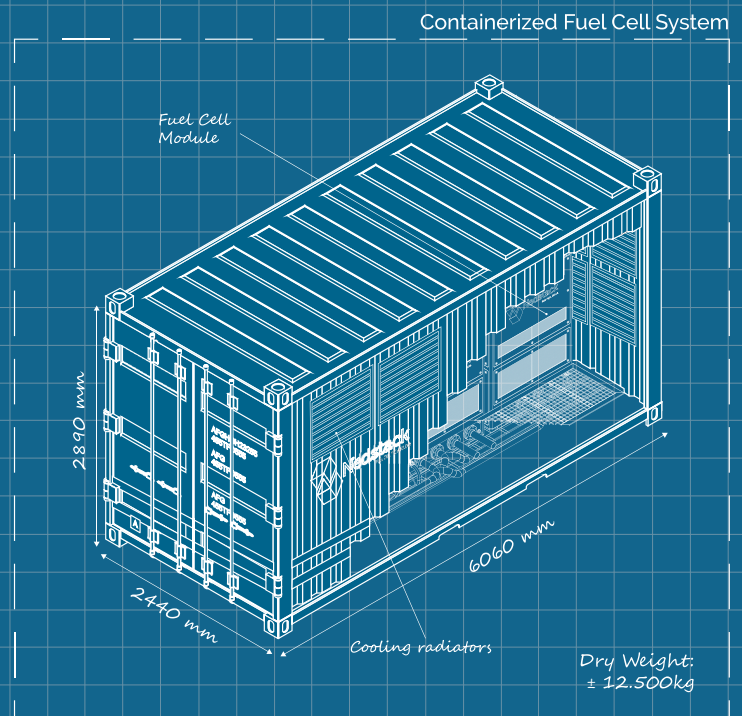
Environment

Air Supply	Ambient
Height (Altitude)	max 2000 m
Water Production (maximum)	~300 kg/h
Operating Temperature	-25 °C to 45 °C ¹
Storage Temperature	-45 °C to 55 °C ²

Compliance

Standards	IEC-62282-3 IEC-62993-2-5 PGS37.1 UL9540A
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Maritime Approval (AiP)	Bureau Veritas RINA
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1. Contact Nedstack for other hydrogen purities
2. Decommissioned storage only

* All data are subject to change without prior notice