





20 ft ISO Container (High Cube)

The MT-FCPI-600 is a Maritime Fuel Cell Power Installation intended as zero-emission shipping enabler. It offers a compact and robust LT-PEM power supply option for a large variety of maritime applications, both on inland waterways or in short-sea domain. The PemGen Fuel Cell Power System portfolio is available on a configure-to-order basis. Get in touch to tune this system to your application.

GENERAL	Fuel Cell Type	Low Temperature Proton Exchange Membrane (LT-PEM)
	Fuel Cell Model	60 x Nedstack FCS 13-XXL
ELECTRICAL	Nominal Power	600 kW _e
	Peak Power (BoL)	740 kW _e
	Voltage range	500 - 1000 VDC
	Current range	0 - 1200 A
ENCLOSURE	Weight	15.000 kg



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Built Level

Length

Width

Heigth

IP-rating

Outlet Temperature

Required Cooling Capacity

Quality	Grade ≥ 2.5 (CO < 0.2 ppm)
Supply pressure	0.3 – 6 barg
Nominal consumption (BoL)	59 kg/ MWh _e
Max consumption	40 kg/h
Medium	DI water or BASF FC G20

Max 65 °C

900 kWth

6.06 m

2.44 m

2.90 m

IP 54

Recoverable heat

AMBIENT

COOLANT

>400 kWth **Operating Temperature** -10 - 40 °C

CONDITIONS

5 - 60 °C (optional -20 °C - 60 °C) Storage Temperature

APPLICATION

Main Propulsion Power for smaller Intended use vessel APU Source for Larger vessel

Placement

Containerized when on open deck Skid based integration below deck

Balance of Plant

24k - 30k running hours

COMPLIANCY

Stack Refurbishment	24k - 30k running hours
Standards	Class Approval on Request IEC-60092 IEC-60529 IEC-60533 IEC-62282-3

20 years

^{*} Due to continuous development, some data may change