



Nedstack

PemGen MT-FCPP-40

Nedstack Fuel Cell Technology B.V.
Maritime Power Systems
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PemGen

MT-FCPP-40

The MT-FCPP-40 is a zero-emission shipping enabler as it offers a compact and robust LT-PEM Fuel Cell Power Supply option for a large variety of maritime applications both on inland waterways and in the short-sea domain.



GENERAL	Fuel Cell Type	Low Temperature Proton Exchange Membrane (LT-PEM)
	Fuel Cell Model	4 x Nedstack FCS 10-XXL
ELECTRICAL	Peak Power	40 kWe
	Nominal Power	30 kWe
	Voltage Range	130 – 300 V DC
	Current Range	0 – 230 A
DIMENSIONS	Weight	Approx. 650 kg
	Length	1010 mm
	Width	1010 mm
	Height	1045 mm
HYDROGEN	Quality	Grade ≥ 2.5 (CO < 0.2 ppm)
	Supply Pressure	0.3 – 6 barg
	Max. Consumption	2.5 kg/h
COOLANT	Medium	DI water or BASF FC G20
	Outlet Temperature	65 – 70 °C
	Max. Heat Output	55 kW
AMBIENT CONDITIONS	Operating Temperature	-10 tot 40 °C
	Storage Temperature	5 – 60 °C (optional -20 – 60 °C)
APPLICATION	Intended Use	Main propulsion power or APU for smaller vessels
	Location	Integration in vessel
SAFETY	Compliance	Class approval on request IEC 60092 IEC 60529 IEC 60533 NEN-EN-50110 ISO 13920 IEC 62282-2 NEN-EN 25817
	Enclosure	IP 55