Nedstack

PEM FUEL CELLS

PemGen®

MT-FCPI-100

Nedstack fuel cell technology B.V.
Maritime Power Systems
www.Nedstack.com

Westervoortsedijk 73 VB
6827 AV ARNHEM
The Netherlands

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MT-FCPI-100

The MT-FCPI-100 is a Maritime Fuel Cell Power Installation intended as a 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 the 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	12 x Nedstack FCS13-XXL
ELECTRICAL	Peak power (BoL)	125 kW_e
	Nominal power	100 kW_e
	Voltage range	300-600 / 600-1200 VDC
	Current range	0-200 / 0-400 A
ENCLOSURE	Weight	2500 kg
	Length	2010 mm
	Width	1100 mm
	Heigth	2090 mm
	IP-rating	IP-54
HYDROGEN FEED	Quality	Grade ≥ 2.5 (CO < 0.2 ppm)
	Supply pressure	0.3 – 4 barg
	Nominal consumption (BoL)	59 kg/MWh_e
	Max consumption	8 kg/h
COOLANT	Medium	DI water or BASF FC G20
	Outlet temperature	Max 65 °C
	Max. heat output	90 kW
AMBIENT CONDITIONS	Operating Temperature	-5 – 45°C
	Storage Temperature	5 – 60°C (optional -20°C – 60°C)
APPLICATION	Intended use	Main Propulsion Power or APU
	Placement	On open Deck (if containerized) Integration in Vessels
LIFESPAN	Balance of Plant	20 years
	Stack refurbishment	24k - 30k running hours
COMPLIANCY	Standards	Class Approval on Request IEC-60092 IEC-60529 IEC-60533 IEC-62282-3

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To be sure.

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