



# Nedstack

## PemGen MT-FCPP-100

Nedstack Fuel Cell Technology B.V.  
Maritime Power Systems  
[www.nedstack.com](http://www.nedstack.com)

Westervoortsedijk 73  
6827 AV Arnhem  
The Netherlands





# PemGen

## MT-FCPP-100

The MT-FCPP-100 is a Maritime Fuel Cell Power Plant intended as a zero-emission shipping enabler as it offers a compact and robust LT-PEM power supply option for a large variety of maritime applications both on inland waterways and in the short-sea domain.



<b>GENERAL</b>	Fuel Cell Type	Low Temperature Proton Exchange Membrane (LT-PEM)
	Fuel Cell Model	12 x Nedstack FCS 13-XXL
<b>ELECTRICAL</b>	Peak power	125 kWe
	Nominal power	100 kWe
	Voltage range	560 - 1200 VDC
	Current range	0-200 A
<b>DIMENSIONS</b>	Weight	Approx. 1500 kg
	Length	2000 mm
	Width	1000 mm
	Height	2000 mm
<b>HYDROGEN FEED</b>	Quality	Grade $\geq 2.5$ (CO < 0.2 ppm)
	Supply pressure	0.3 - 6 barg
	Max. Consumption	9 kg/h
<b>COOLANT</b>	Medium	DI water or BASF FC G20
	Outlet Temperature	65 - 70 °C
	Max. Heat Output	104 kW
<b>AMBIENT CONDITIONS</b>	Operating Temperature	-10 to 40 °C
	Storage Temperature	5 - 60 °C (optional -20 - 60 °C)
<b>APPLICATION</b>	Intended Use	Main propulsion power or APU for medium vessels
	Placement	Integration in vessel
<b>SAFETY</b>	Compliance	Class approval on request IEC 60092 IEC 60529 IEC 60533 NEN-EN-50110 ISO 13920 IEC 62282-2 NEN-EN 25817
	Enclosure	IP 56 Rated Outdoor Enclosure