



# Nedstack

## PemGen MT-FCPP-500

Nedstack Fuel Cell Technology B.V.  
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# PemGen

## MT-FCPP-500



The MT-FCPP-500 is a zero-emission shipping enabler as it offers a containerized LT-PEM fuel cell power supply unit for a variety of large 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	60 x Nedstack FCS 13-XXL
<b>ELECTRICAL</b>	Peak power	626 kWe
	Nominal power	500 kWe
	Voltage range	560 - 1200 VDC
	Current range	0-1000 A
<b>DIMENSIONS</b>	Weight	Approx. 15000 kg
	Length	6060 mm
	Width	2440 mm
	Height	2590 mm
<b>HYDROGEN FEED</b>	Quality	Grade $\geq 2.5$ (CO < 0.2 ppm)
	Supply pressure	0.3 - 6 barg
	Max. Consumption	45 kg/h
<b>COOLANT</b>	Medium	DI water or BASF FC G20
	Outlet Temperature	65 - 70 °C
	Max. Heat Output	670 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 for lighter vessel or APU for larger vessel
	Placement	On open deck or integration in vessel
<b>SAFETY</b>	Compliance	Class approval on request IEC 60092 IEC 60529 IEC 60533 NEN-EN-50110 ISO 13920 NEN-EN 25817 IEC 62282-2
	Enclosure	20 ft ISO Container