Nedstack

PEM FUEL CELLS

PemGen®

CHP-FCPS-600

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

Westervoortsedijk 73 VB
6827 AV ARNHEM
The Netherlands

PemGen®

CHP-FCPS-600

The CHP-FCPS-600 is a PEM Fuel Cell Power Systems intended for industrial applications, Power-2-Power purposes for solar fields and wind farms and for co-generation applications in the built environment.
The CHP-FCPS-600 is optimized for seamless integration in local or collective electricity grids by being able to use all sorts of commercial off-the-shelf power electronics.
The PemGen Fuel Cell Power System portfolio is available on a configure-to-order basis. Get in touch to tune this system for your specific application.

GENERAL	Fuel Cell Type	Low Temperature Proton Exchange Membrane (LT-PEM)
	Fuel Cell Stack Model	60 x Nedstack FCS13-XXL
ELECTRICAL	Nominal Power (EoL)	600 kW_e
	Peak Power (BoL)	740 kW_e
	Voltage range	500 - 1000 VDC
	Current range	0 - 1200 A
ENCLOSURE	Weight	15.000 kg
	Built Level	20 ft ISO Container (high cube)
	Length	6.06 m
	Width	2.44 m
	Heigth	2.90 m
	IP-rating	IP 54
HYDROGEN FEED	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
COOLANT	Medium	DI water or BASF FC G20
	Outlet Temperature	Max 65 °C
	Required Cooling Capacity	900 kW_{th}
	Recoverable heat	>400 kW_{th}
AMBIENT CONDITIONS	Operating Temperature	-5 – 40°C
	Storage Temperature	5 – 60°C (optional -20°C – 60°C)
APPLICATION	Intended use	Residential blocks, Commercial and insitutional facilities and Chemical sites
	Placement	To be placed on flat concrete surface or steelframe
	Balance of Plant	20 years
	Stack Refurbishment	24k - 30k running hours
COMPLIANCY	Standards	IEC-62282-2 IEC-62282-3 2006/95/EC 2006/42/EC 2004/108/EC

** Due to continuous development, some data may change*

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