



Nedstack

PEM FUEL CELLS

PemGen[®]

MPU-20-400-AC



Nedstack fuel cell technology B.V.
Mobile Power Units
www.Nedstack.com

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The Netherlands



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The PemGen MPU portfolio provides hydrogen fuel cell power solutions as a zero-emission alternative to diesel combustion gensets. The AC solutions within this portfolio are independent 'grid-formers' made up of a PEM fuel cell system and an internal battery, that work in combination to generate emission free power for long endurance applications.



GENERAL	Fuel Cell Type	Low Temperature Proton Exchange Membrane (LT-PEM)
	Fuel Cell Model	2 x 13.6 kWe Nedstack FCS13-XXL
	Battery	20 kWh LiFePO4
	Application	Off-Grid Power
ELECTRICAL	Output Voltage	400 VAC
	Max. Output Current	50 A
	Continuous Power Rating (BoL)	20 kWe, 3 phase, 50 Hz
	Max. Power Rating (BoL)	40 kWe, 3 phase, 50 Hz
	Electrical Connection	CEE 3ph + N + PE
FUEL	Hydrogen Purity	99.97% H2, according to ISO 14687, type 1, Grade D
	Max. Supply Pressure	1-10 bar(g)
	Hydrogen Connection	DESO Quick Connect
AIR	Air Quality	Ambient Air
COOLANT	Medium	DI Water
	Method	Radiator-Fan Assembly (Integrated)
ENCLOSURE	Type	Chassis on Base Frame with Outdoor Canopy
	L x W x H	2.40m x 1.14m x 1.50m
	IP Rating	IP-55
	Placement	Outside or well-ventilated indoor areas complying to IEC-62282-3-300
LIFESPAN	Balance of Plant	10 years
	Stack Refurbishment	24k – 30k running hours
CLIMATE	Operating Temperature	-5°C to 45°C (de-rating above 40°C)
	Storage Temperature	0 to 55°C
	Altitude	2.000 m
COMPLIANCY	Standards	IEC-62282-5 IEC-60529 IEC-60079-10 Applicable CE Directives