



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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PemGen

FUEL CELL POWER

MPU-20-400-AC



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 |