

METHANOL TO H₂ TO ELECTRICITY

Off-grid & Sustainable & Mobile

⚡ e-Nomad 150 kW



*"Our advanced technology provides **self-reliance in remote environments**, enabling off-grid or on-site applications to operate without any power concerns."*

FEATURES

Why you may need MReformer solutions?

- ⚡ **Environmentally friendly** (no NO_x, SO_x, PM)
- ⚡ **High** energy efficiency
- ⚡ **Low capital expenditure (CAPEX)**
- ⚡ **Low operating expenditure (OPEX)**
- ⚡ **Modulars:** scalable from 150 kW to several MW
- ⚡ **Reliable & low maintenance**
- ⚡ **Low noise & vibration resistant**
- ⚡ **Long service** life due to few moving parts
- ⚡ **Immediate power availability**
- ⚡ **24/7 working hours**



BEV charging



Off-grid genset



Off-grid supply



Field hospitals



Ports energy backup

e-Nomad
INSIDE



L18 reformer Fuel Cell High capacity battery Power electronics & controls

SPECIFICATIONS: e-Nomad - Portable AC Output 140 kW*

Sustainable electricity by H₂: Available wherever you need it

Certification	CE & ATEX certified
Performance Power Output (BoL) Frequency Voltage Electrical Efficiency	140 kW 50 Hz 400 VAC (3P+N+PE) 39.2%
Hydrogen Quality Hydrogen	>99.97 %
Refurbish	≈ 20,000 h

Ambient conditions	5 °C to 45 °C
Pollutants CO NOx SOx	<300ppm 0 ppm 0 ppm
Physical Characteristics Format Dimensions Weight	20 ft container 6.10 x 2.44 x 2.59 m ≈ 16.000 kg

**Specifications subject to change*

WHY METHANOL?

Widely available, safe & efficient for H₂ logistics

- ⚡ H₂ logistics by methanol radically **cuts the transport costs**
- ⚡ Liquid at **room temperature**
- ⚡ **Low carbon fuel** ideal for the energy transition
- ⚡ **Widely available** thanks to its usage in maritime & industry sectors

- ⚡ Global capacity expected to **double before 2030**
- ⚡ High-density **hydrogen carrier** (CH₃OH)
- ⚡ Can be manufactured in eco-friendly mode (**green**)
- ⚡ If green, all applications are **carbon neutral**

DELIVERING THE SOLUTION FOR H₂ LOGISTICS

Short term payback

1 TRUCK OF METHANOL



Methanol x 1 truck
+600 km + 1.37 Tn CO₂

=

12 TRUCKS OF COMPRESSED H₂

3.6 Tons
H₂



Compressed H₂ x 12 trucks
+ 7.200 km + 16.4 CO₂