

Technical Data Sheet

PEM Ely

H2 Electrolyser

Rated power: 1,65 kW

PEM technology



This 0,3 Nm³/h PEM hydrogen generator uses renewable energy (solar or wind, even with unstable energy supply) and purified water (conductivity $\leq 0,1$ mS/m @25°C) to produce clean, green hydrogen through electrochemical reaction.

Applications: Compact, easy to move and featuring smart control and high efficiency, this electrolyser is ideal for applications where the user wants flexibility, fast response and high purity hydrogen for drones, energy storage, last mile vehicles or outdoor camping (combined with Hypal or other Fuel Cell).

Specification

Rated Power	1,65 kW
Maximum Nominal Pressure	0,1 to 4 MPa
H2 production capacity	0 to 0,3 Nm ³ /h
H2 purity	99,995 % (H2O < 10ppm, O2 < 2ppm, N2 < 2ppm)
Water quality required	Pure water, Distilled water (Conductivity $\leq 0,1$ mS/m @25°C)
Power consumption	< 4,3 kWh/Nm ³
Rated DC Current	30 A
Cold Start Time	< 1 min
Hot Start Time	< 5 seg
Dimension (L * W * h, mm)	650 * 340 * 600
Product weight	55 kg
Dew point	< -65 °C

Other information

This electrolyser is designed with a plug and play secure configuration. With an energy consumption similar to a large domestic refrigerator, it is possible to produce highly pure hydrogen with renewable energy and distilled water:

The electrolyser operates completely autonomously, requiring no configuration, no post-treatment nor purification of the hydrogen. The hydrogen output is used directly in storage or in the fuel cell units for power generation.

