

Electrolyser EL 2.1 DC



Powered by Enapter



This is the DC version of Enapter's patented anion exchange membrane (AEM) electrolyser- a standardized, stackable and flexible system to produce on-site hydrogen. The modular design – paired with advanced software integration – allows set up in minutes and remote control and management. Stack this electrolyser to achieve the required hydrogen flowrate.

KEY FEATURES

- ≡ High efficiency
- ≡ Automated & remote operation with Enapter's Energy Management System
- ≡ Low requirements for input water purity
- ≡ Ideal for on-site hydrogen production
- ≡ Modules can be easily integrated in 19" racks
- ≡ Safe operation
- ≡ Scalable and modular, add as many modules as needed
- ≡ Quick and easy installation
- ≡ Ideal for green hydrogen from renewables
- ≡ Low maintenance requirements

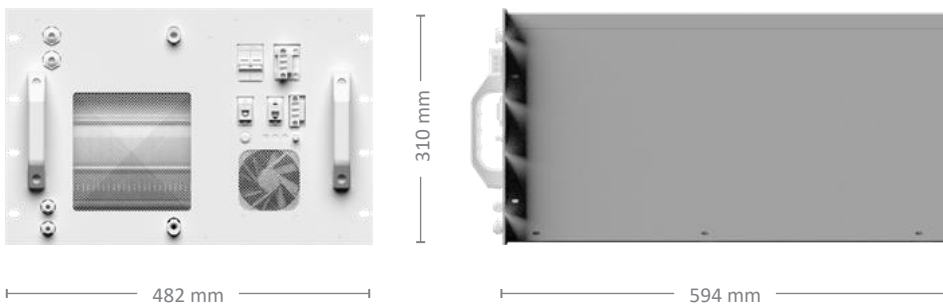
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This is a design data sheet, changes to the technical parameters are protected.



Specifications

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Hydrogen production rate	500 NI/h 1.0785 kg/24 h
Output pressure	Up to 35 bar
Hydrogen output purity directly	~ 99.9% (Impurities: ~ 1,000 ppm H ₂ O)
Hydrogen output purity with dryer	> 99.999% in molar fraction
Average dewpoint and impurities with dryer	< -70°C, compliant with ISO14687 (H ₂ O < 5 ppm, O ₂ < 5 ppm)
Operative power consumption (at standard conditions)	2.4 kW
Stand-by power consumption	15 W
Standard power supply	DC 40 - 60V (for example, a 48Vdc battery bus in a microgrid)
Water consumption	0.4 L/h
Water input conductivity	< 20 µS/cm (at 25°C)
Water input pressure	1 - 4 bar
Ambient temperature	5 - 45°C
Module dimensions	W × D × H in mm = 482 × 594 × 310 (7U)
Module weight (without water)	55 kg
Control and monitoring	Fully automatic with Enapter's EMS, Modbus
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