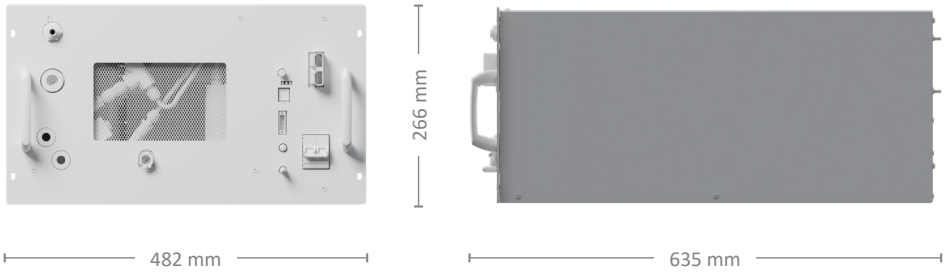
AEM Electrolyser
EL 4.0 DC

Enapter's patented anion exchange membrane (AEM) electrolyser is 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.

Specifications



Production rate	500 NL/h, 1.0785 kg/24h
Hydrogen output purity	35 bar: 99.9% (1000 - 1500 ppm H_2O) 8 bar: > 7000 - 9000 ppm H_2O
Output pressure	Up to 35 barg
Nominal power consumption per Nm^3 of H_2 produced	4.8 kWh/Nm^3, beginning of life
Operative power consumption	2.4 kW, beginning of life
Peak power consumption	3 kW
Max heat dissipation	1 kW
Power supply	DC 48 - 60 V
Maximum water input conductivity	20 µS/cm at 25 °C
Water consumption	~ 400 mL/h
Water input pressure range	1 - 4 barg
Ambient operative temperature range	5 °C to 45 °C
Ambient operative humidity range	Up to 95% Rh, non-condensing
IP rating	IP 20
Dimensions	W: 482 mm × D: 635 mm × H: 266 mm
Weight	38 kg
Space inside cabinet	6 U
Control and monitoring	Fully automatic with Enapter's EMS via 2.4 GHz Wi-Fi and Bluetooth, Modbus TCP over Ethernet
Conformity	CE (2006/42/CE), S.E.P. Classified (2014/68/EU PED), EN ISO 12100, IEC 61508, EN IEC 61000-6-3, EN IEC 61000-6-2, ISO 22734 ready