ENAPTERELECTROLYSER SYSTEMS

ENAPTER ELECTROLYSERS ARE THE PORTAL TO THE HYDROGEN ECONOMY

Our AEM electrolysers are the most cost-effective and high performance solution for hydrogen production ranging from 0.5Nm³/hr to 10Nm³/hr.

FLEXIBLE • SCALABLE • FAST TO DEPLOY

EL 2.0



Up to four EL 2.0 modules and one optional dryer can be combined in a single 19" cabinet by Enapter or a qualified system integration partner. Please see next page for more details on the optional modules offered by Enapter.

Key Features

- 500 NL/hr or 0.5 Nm³/hr hydrogen output
- Stackable to form larger electrolyser systems
- Output pressure up to 35 bar
- Hydrogen purity 99.95%, 99.999% with optional dryer module
- High efficiency (4.8 kWh for 1 Nm³ of H₂ at system level)
- Rack-mountable in standard 19" cabinet
- Native operation with Enapter EMS (remote monitoring and control system)
- Simple installation and low maintenance
- Low requirements for input water purity





EL 2.0 Data Sheet

Technical Data	
H ₂ production rate	500 NL/hr
Working pressure	35 Bar
Water consumption	0,4 L/hr
Water specification	<20 microS (at 25°C) μS/cm
Water input pressure	1-2 Bar
Power supply options	AC 100-240 Vac, 50-60Hz
Operative power consumption (at standard conditions)	2,4 kW
Peak power consumption (max power draw at anytime)	3,0 kW
Module dimensions (WxDxH)	483 x 490 x 354 mm (8U)
Module weight (without water)	53 Kg
Ambient temperature	5–45 °C
Ambient humidity	20–95%



EL 2.0

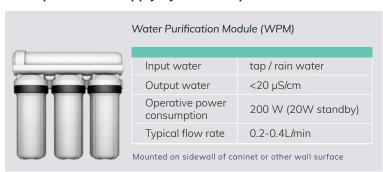




19" Cabinet Integration

Enapter offers integration of EL 2.0 in a weatherproof cabinet for deployment directly on the customer site.

Enapter Water Supply System Components



Water Tank

An optional 40L clean water tank can be integrated into the cabinet.

It can be filled by the WMP or other clean water supply and includes a pumping system to supply the electrolysers. Size in cabinet: 8U.



Enapter's water supply system is completely optional and our customers are welcome to use any water supply system to EL that meets the specifications (<20 µS/cm).



Germany

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Thailand

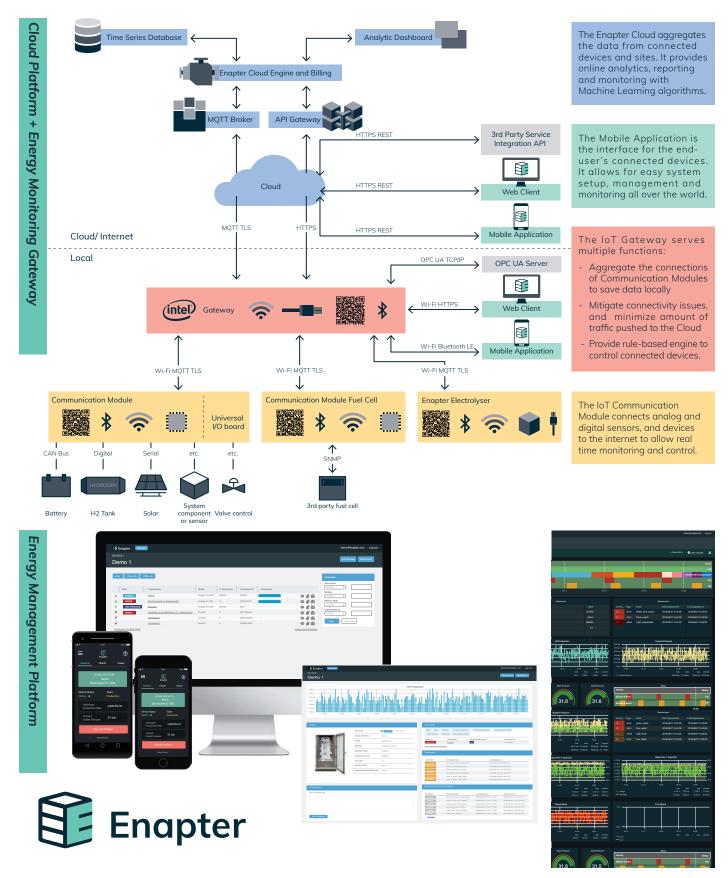
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ENAPTER EMS

MONITORING SYSTEM

Enapter addresses the critical importance of understanding both your system and the environment it operates in. Made of a network of sensors and interfaces, the monitoring and control solution complements our electrolysers. It enables complete control and peace of mind, no matter where in the world you or your system are.



Use Cases

Enapter electrolysers are installed in numerous applications around the world. More examples are available on request.

France



Off-grid with seasonal hydrogen energy storage

Enapter electrolysers produce hydrogen to keep this refuge in the Alps operational year-round

Electrolyser: 500 NL/hr Fuel Cell: 2.5 kW

Storage: 5kg of hydrogen

(90 kWh)

Malaysia



Telecom back up power

Enapter electrolysers generate hydrogen to power remote towers during a grid outage

Electrolyser: 1000 NL/hr Fuel Cell: 5 kW

Egypt



Telecom back up power

Enapter electrolysers provide long term backup capability for a telecom tower in New Cairo close to the mosque

Electrolyser: 1000 NL/hr Fuel Cell: 4 kW

Storage: 500 L (1.35Kg)

Portugal



Industrial onsite hydrogen generation

Enapter electrolysers are integrated into a nitrogen purification system

Electrolyser: 1000 NL/hr

Thailand



24 hour off-grid solar and hydrogen

The Phi Suea House, a world's first in solar- hydrogen residential storage

Electrolyser: 2000 NL/hr 4 kW Fuel Cell:

7.5kg of hydrogen Storage:

(130 kWh)

Australia



Energy independence in remote area

Enapter electrolysers are the key component in this off-grid project in the county of Melbourne

Electrolyser: 1000 NL/hr Fuel cell: 2 kW

300L (0.81 Kg) Storage:



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Italy

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