

# LCWE25 HEX

## Water Electrolyzer Stack (PEM)

With its high power density, efficiency and reliability, LCWE-25 is perfectly suited for OEMs and integrators aiming at developing their own solution for the production of green hydrogen.

### Key features

- Advanced PEM water electrolyzer stack
- Produces hydrogen at high pressure (cathode)
- Low-pressure oxygen outlet (anode)
- Designed for integration in H<sub>2</sub> systems
- Power range up to 5 kW
- Integrated heat exchanger for stack cooling

**50 cells**

**5 kW**

**up to 1035 NL/h**

■ Number of cells ■ Nominal load ■ H<sub>2</sub> production

## Specifications

**Power range:**  
0,5 – 5 kW

**Max. current:**  
46 A

**Active area:**  
23 cm<sup>2</sup>

**Hydrogen production:**  
Up to 1035 NL/h (46 A)

**Operating pressure H<sub>2</sub>:**  
0 – 25 barg

**Operating pressure O<sub>2</sub>:**  
Unpressurized

**Operating temperature:**  
30 – 75 °C

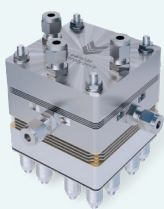
**PTL anode/cathode:**  
Pt coated Ti felt

**Bipolar plates:**  
titanium

**CVM connectors:**  
Faston 2.8 mm

**Hydrogen/water connectors:**  
G 1/4"

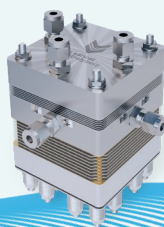
**Power connectors:**  
M6



**5 cells**

0,5 kW

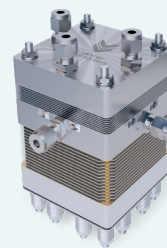
up to 103,5 NI/h



**10 cells**

1 kW

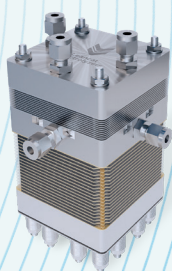
up to 207 NI/h



**15 cells**

1,5 kW

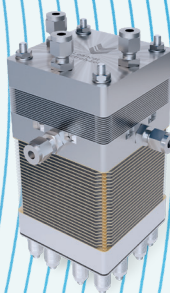
up to 310,5 NI/h



**20 cells**

2 kW

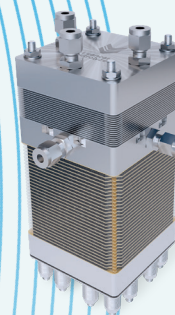
up to 414 NI/h



**25 cells**

2,5 kW

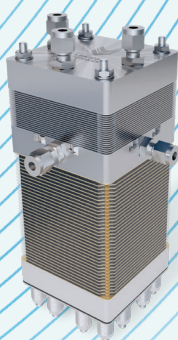
up to 517,5 NI/h



**30 cells**

3 kW

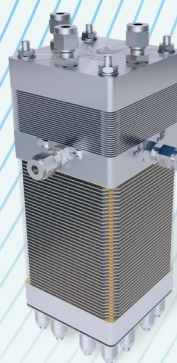
up to 621 NI/h



**35 cells**

3,5 kW

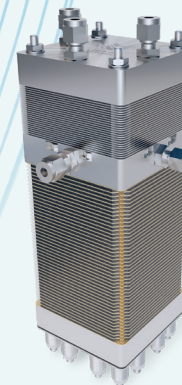
up to 724,5 NI/h



**40 cells**

4 kW

up to 828 NI/h



**45 cells**

4,5 kW

up to 931,5 NI/h

■ Number of cells ■ Nominal load ■ H<sub>2</sub> production



**Leancat Electrolyzers s.r.o.**  
U Pergamenky 1145/12  
Prague, 170 00, Czech Republic  
[info@leancatwe.com](mailto:info@leancatwe.com)



**Leancat  
Electrolyzers**

[www.leancatwe.com](http://www.leancatwe.com) ● [sestak@leancatwe.com](mailto:sestak@leancatwe.com)