



Key features

Available in configurations
from 3 to 10 kW

Waste heat can be utilized
due to liquid-cooled stack
technology

Possible to couple with
battery storage to broaden
range of applications

Power Generator H2CleanGen

Power generator
based on
PEM fuel cells

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Specifications

Power Range:

3 – 10 kW

Fuel:

Gaseous hydrogen,
purity > 99.95 %

Fuel consumption:

0.07 kg/h/kW

Control system:

Industrial PLC

Output voltage:

Adjustable (DC or AC)

Fuel supply pressure:

5 barg

Cooling:

Air cooler or heat exchanger

Dimensions (W x D x H):

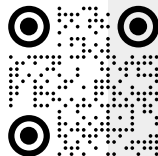
1300 mm x 680 mm x 1200
mm

Weight:

150 kg

Applications

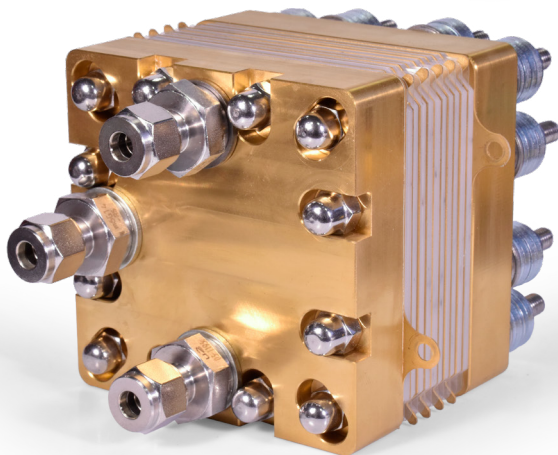
Designed for stationary applications including backup power, off-grid systems, or grid balancing. Reliable operation is ensured thanks to robust design, high-quality components and advanced SW control.



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Water-Electrolysis Stack (PEM) LCWE-25

Key features

Advanced PEM water
electrolysis stack

Produces hydrogen at high
pressure (cathode)

Low-pressure oxygen outlet
(anode)

Designed for integration in H₂
systems

Power range up to 3 kW

Production of
green
hydrogen

LEANCAT



Specifications

Power Range:

1 – 3 kW

Active area :

25 cm²

Maximum current:

50 A

Operating pressure H₂:

0 - 20 barg

Operating pressure O₂:

Unpressurized

Operating temperature:

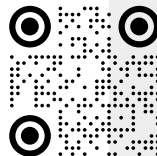
30 - 75 °C

Hydrogen production:

Up to 675 NL/h

Applications

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.



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Water Electrolyser Science Kit LCWE-kit

Key features

PEM water electrolysis stack
with transparent end plate

Water box with DI water
container and water
separator

Water pump for water
recirculation

Control module with touch
screen

DC power supply

Educational kit
for PEM
water electrolysis

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Specifications

Electrolyser technology:

Proton Exchange Membrane (PEM)

Active area:

25 cm²

Maximum operating temperature:

65 °C

DC power supply:

Controlled output

Max. current:

25 A

Power input:

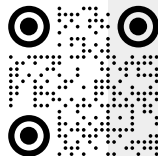
230 V(AC)

User interface:

Touch screen

Applications

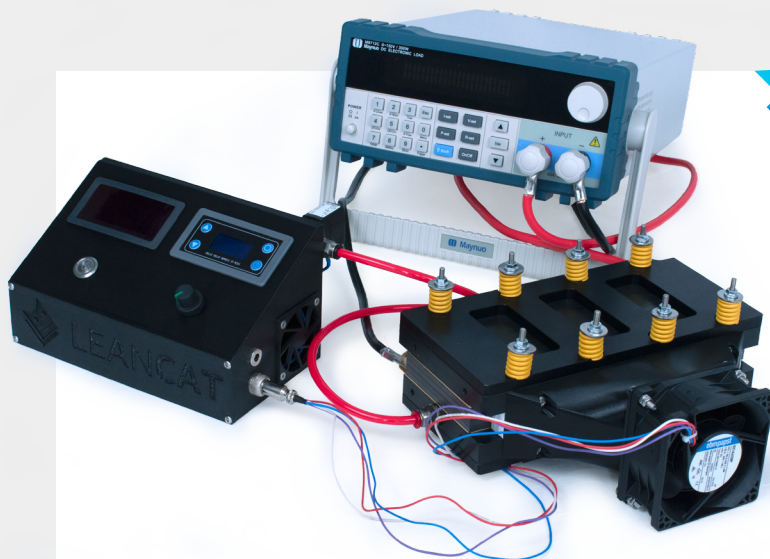
Green hydrogen is the key enabler for the energy transition. But how is it made, anyway? Investigate water electrolysis with Leancat hands-on science kit. This electrolyser uses the same industrial design and components as our full-featured electrolysers. As such, it can be used for realistic measurements.



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Key features

PEM fuel cell stack with open-cathode architecture

Ventilator for cooling and air supply

Control of ventilator rotation speed

Control module with touch screen

Electronic DC load connected to PC

Fuel Cell Science Kit LCFC-kit

Educational
kit for PEM
fuel cells

LEANCAT



Specifications

Fuel cell technology:

Proton Exchange
Membrane (PEM)

Active area:

100 cm² / cell

Max. power:

100 W

**Maximum operating
temperature:**

70 °C

Electronic DC load:

Precise control of stack
power

Max. current:

60 A

Number of cells:

3

Ventilator:

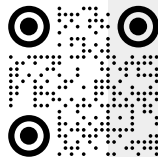
Electronic rpm control

User interface:

Touch screen

Applications

Hydrogen-powered applications are emerging increasingly. But how does power generation from hydrogen work? Investigate PEM fuel cells with Leancat hands-on science kit. This fuel cell stack uses the same industrial design and components as our full-featured stacks. As such, it can be used for realistic measurements.



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