

# HyLink® SOEC

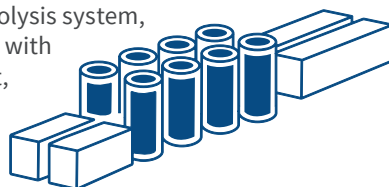


10 MW Module

89%<sup>1</sup> LHV, AC

Outdoor

**HyLink® SOEC** is Sunfire's 10 MW solid oxide electrolysis system, delivering world record efficiency<sup>1</sup> for applications with onsite heat. Leading the way in SOEC development, Sunfire has implemented the most industrial SOEC demonstration projects worldwide.



More product  
information

# HyLink<sup>®</sup> SOEC: Market-Leading Efficiency in Water Electrolysis

## Record Efficiency

37.5 kWh/kg H<sub>2</sub> (89%) world record efficiency<sup>1</sup> enabling lowest LCOH

## Constant Efficiency

Constant efficiency and production output at plant level through lifetime

## Outdoor Installation

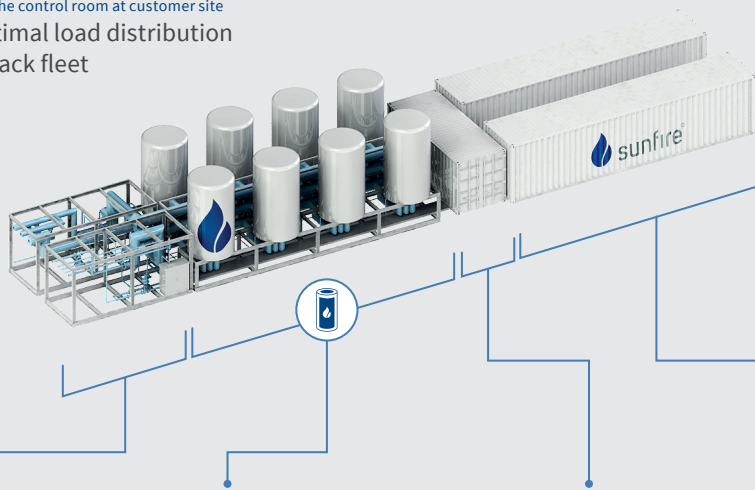
Outdoor installation with compact footprint for cost savings in building & HVAC

## Units of the 10 MW Module



### Fleet Control Unit

Installed in the control room at customer site  
TCO-optimal load distribution of the stack fleet



### Coldbox

- Feed gas control
- Product gas cooling

### Plug & Play Hotboxes

- 8 x 1.3 MW electrolyzer hotbox with highly efficient, powerful, and durable SOEC stacks
- Heat recuperation

### Module Control Unit

- Fully automated, remote-controlled operation
- LV power distribution and control logic

### Power Supply Unit

- Highly efficient AC-DC conversion
- Grid conformity

### Most Powerful SOEC Module

Most powerful, standardized, 10 MW SOEC module, ready for large-scale applications

### Industrial Application

World-leading track record of successful industrial demonstration projects

### Made in Europe



## Technical Specifications

### Hydrogen Production

Nameplate capacity	291 kg/h
Hydrogen purity after drying	99.9% before cleaning <sup>2</sup>
Flexibility	50-100% and 10%/min

### Electrical Efficiency

AC power	10.9 MW
Specific consumption	37.5 kWh/kg

### Hardware

Net module footprint	24 m <sup>2</sup> /MW
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### Feed Gas

Steam consumption	10.5 kg/kg H <sub>2</sub>
Condition	> 2.5 bar(g) · > 140 °C





## HyLink® Electrolyzer Portfolio

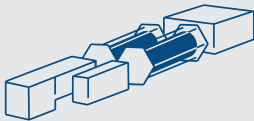
Sunfire offers the industry's only electrolysis portfolio, combining long proven, highly efficient pressurized alkaline electrolyzers for any industrial green hydrogen project with solid oxide electrolysis (SOEC) delivering world leading efficiency in applications with available onsite heat.



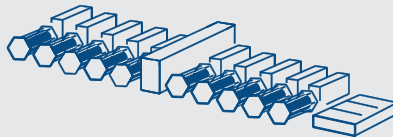
AEL

### Pressurized alkaline electrolysis for any industrial green hydrogen project

HyLink® Alkaline 22 · 10 MW Module



HyLink® Alkaline 23 · 50 MW Module



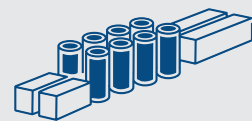
- Operates at a pressure of 30 bar(g)
- Verified performance of operating electrolyzers
- Reliable and proven 5 MW AEL Stack
- For continuous operation and/or dynamic load with renewables



SOEC

### Solid oxide electrolysis for applications with onsite heat

HyLink® SOEC · 10 MW Module



- 37.5 kWh/kg H<sub>2</sub> (89%) world record efficiency<sup>1</sup>
- Constant efficiency and production output at plant level throughout lifetime
- More than 30% increase in hydrogen production through heat integration

<sup>1</sup>) Expected efficiency of Sunfire's third-generation SOEC electrolyzer, assuming 100% steam coverage

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