

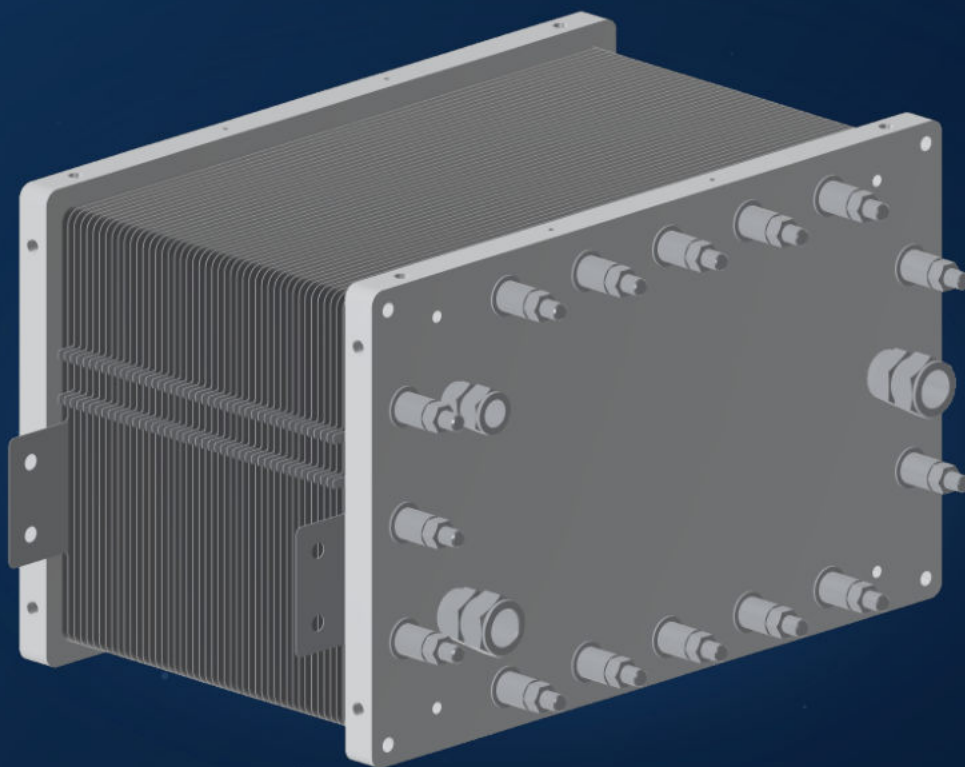
— AEM WATER ELECTROLYSIS

HXS-30

5-cell available · 46-cell available Q4 2026

30 kW AEM electrolyser stack

A 30 kW AEM stack for integration into research, demonstration and industrial hydrogen plant.



KEY RATINGS

15 kg/dayRated H₂ output**30 kW**

Rated power

46 cells

Full-stack configuration

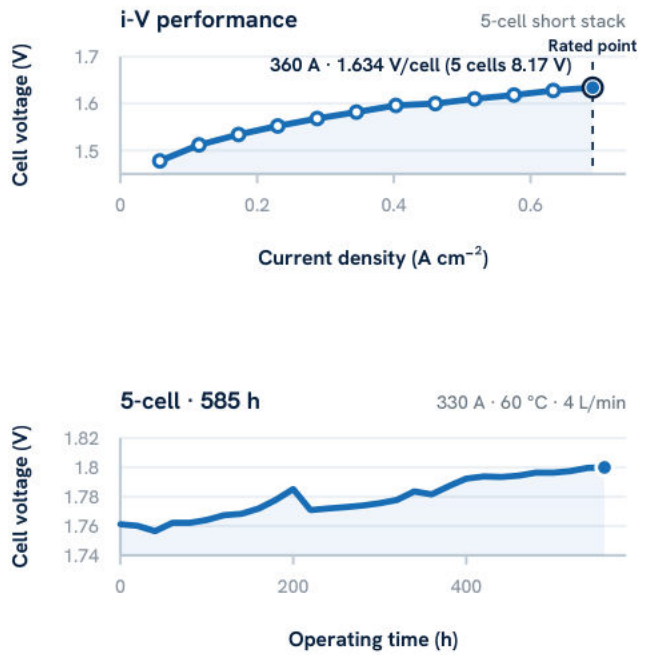
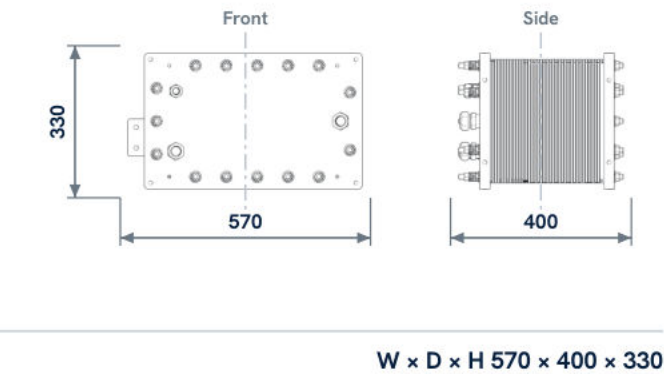
Product boundary · Standard supply

Stack assembly. Rectification, circulation, cooling and gas treatment are configured in the customer's system.

HX-30 · PRELIMINARY SPECIFICATION

Design specifications · operating range

Dimensional drawing



Measured reference

- Current density: approx. 521 cm² reference active area
- Efficiency: 46-cell design 84% · approx. 47 kWh/kg / 5-cell measured 90.7% · approx. 43 kWh/kg
- Durability: 5 cells · 330 A · 60 °C · electrolyte 4 L/min · 585 h (27 Jul 2026)
- Water consumption: 6.3 L/h measured at 350 A and converted to 360 A
- Cathode loading: 0.2 mgPGM/cm² · PtRu-based loading is total Pt+Ru

Performance

H ₂ production	7,500 L/h · 15 kg/day
Efficiency (HHV)	46-cell design 84% · 5-cell measured 90.7%
Rated power	30 kW
Feedwater consumption	6.5 L/h · 360 A
Operating temperature	up to 80 °C
Recommended operating condition	0.1 M KOH · 50 °C

Physical

Cell count	46
Electrode area · reference active area	600 cm ² anode electrode area · approx. 521 cm ² reference active area
Dimensions	570×400×330 mm
Weight	120 kg

Connections

DC input	80 V · 360 A
DC terminal	M10
Electrolyte inlet	1" double-ferrule
H ₂ outlet	3/4" double-ferrule
O ₂ ·Electrolyte outlet	1" double-ferrule

Materials

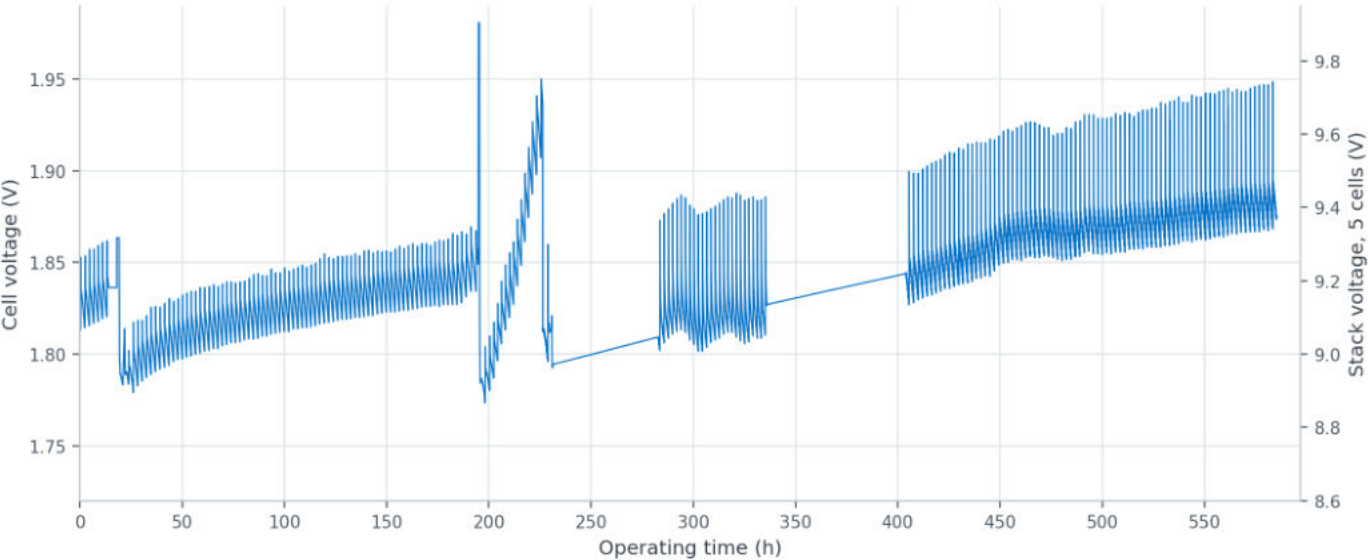
Anode	HXP-an (non-precious-metal NiFe-LDH)
Cathode	HXP-ca (Pt- or PtRu-based · 0.2 mgPGM/cm ²)
electrolyte membrane	Polymer ion-exchange membrane

HXS-30 · MEASURED DATA

Measured on a 5-cell short stack

5-cell short-stack durability run

585 h · 5 cells · 330 A galvanostatic · 60 °C · electrolyte flow 4 L/min · approx. 521 cm² reference active area



Cell voltages at 360 A (5 cells)

