Ceres Endura™ for hydrogen generation

Electrolyser stack

Built to last

Ceres Endura™ is our flagship technology platform, designed from the ground up with manufacturing, performance and real-world application in mind. Based on game-changing, steel-supported solid oxide cell technology, our stack is made up of hundreds of cells assembled in a robust and easy-to-install unit. Designed as a dual use platform, Ceres Endura™ enables partners to serve both power and hydrogen markets from a single architecture. The result is a platform engineered for robustness, scale, world-class efficiency at low cost.

Ceres Endura™ for hydrogen production

In hydrogen applications, Ceres Endura™ is designed to support scalable, future-ready hydrogen systems intended for long-term operation and effective integration with renewable energy, as well as delivering high-efficiency hydrogen production. Our technology is designed for hard-to-decarbonise sectors such as ammonia production, refining and green steel, where hydrogen demand is high and processes are heat-intensive. Ceres Endura™ integrates effectively with industrial environments, enabling the use of waste heat to increase overall system efficiency.

Clean energy starts with Ceres

We are a leading developer of clean energy technology; electrolysis for green hydrogen production and fuel cells for power generation. Ceres' solid oxide platform technology supports greater electrification of our energy systems and produces green hydrogen at high-efficiencies as a route to help decarbonise emissions-intensive industries.

Build with Ceres: your pathway to clean energy success

Our established partnering model enables global manufacturers to accelerate entry into markets for power generation and hydrogen production at scale and with lower development risk. Partners accelerate to industrialisation with a scalable product backed by 25 years of development, established IP and deep engineering expertise, unlocking access to untapped markets. Our licensing model puts local manufacturing at its core, helping partners to build production capability in-region, supporting supply-chain resilience, cost control and strategic autonomy.

High efficiency

Integration with low-grade heat

Robust and reliable

Flexible operation with renewables

Pressurised hydrogen output

Modular

ceres endura™

Specification†

Hydrogen production rate	0.87 kg/h
Hydrogen production efficiency	34.5 Wh/kg
Nominal operating temperature	450 - 630 °C
DC input power	30 kW
Hydrogen delivery pressure	2 bar(g)
Ramp up rate	7 %/min
Nominal current	58.5 A
Nominal voltage	512 V
Maximum voltage in series connection	1120 V‡
Weight	108 kg
Nominal dimensions	687 mm (H) x 352 mm (D) x 199 mm (W)

† The performance figures provided are indicative only and represent average values determined across multiple stacks. Actual performance may vary due to normal part-to-part variation, operating conditions and system configuration.

‡ Allows two stacks to be connected electrically in series

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Version 1

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