Ohmium® cutting-edge PEM electrolyzer

Compact, hyper modular design with simplified maintenance, delivering industry-leading efficiency, availability, and low-cost installations

LOTUS MARK 3

Ohmium® Lotus Mark 3

Your comprehensive hydrogen solution

Ohmium's advanced PEM electrolyzers produce cost-competitive hydrogen with exceptional efficiency, reduced installation costs, and simplified maintenance, all within a compact footprint. Backed by real-world experience, our solution delivers reliable hydrogen production globally across diverse climates and temperatures.

Leading Technology

Market-leading system efficiency at 48kWh/kg

Advanced power electronics with grid ancillary services

Compact Design For Large Global Installations

Highest energy density in a compact footprint

Outdoor system; operating in -40°C to 55°C

Secure, Stable, And Scalable Supply Chain

Industry-leading iridium efficiency (GW/ton usage)

Scalable manufacturing capacity up to 2GW

Improved Project Economics

Low-cost installation with rapid scalability

Shortened project timeline with fast commissioning

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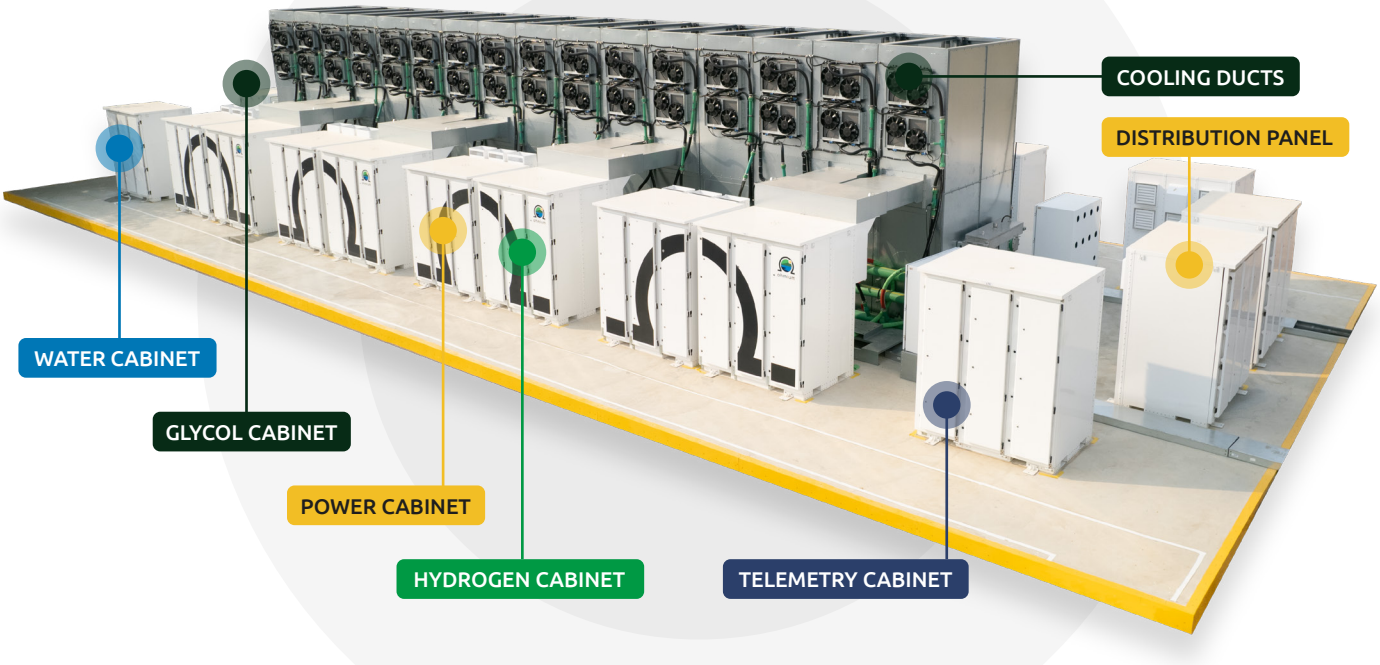

E and P series product specifications*

Hydrogen production	**Flow rate**	2.0 tonnes per day
	Pressure	E series: up to 14 barg P series: up to 30 barg
	Purity	E series: 99.99% (optional: 99.999%) P series: 99.999% (optional: 99.9999%)
	Ramp-up time	8 sec
	Efficiency**	E series: BOL: 48 kWh/kg P series: BOL: 51.5 kWh/kg
Requirements	**Inlet water consumption (city water)**	15 L/kg of H_2
	Power	3 phase with 480 VAC/60Hz, 415 VAC/50Hz or 400VAC/50Hz
Site	**Environment**	Outdoor rated for -25ºC to 55ºC (-13ºF to 131ºF); Optional -40ºC
	Regulatory	Designed to CSA/ANSI B22734, ISO 22734, CE Installed per NFPA 2
	Location	Outdoor (ordinary, non-hazardous)
	Size***	21.5m x 5.8m x 4m / 70’5’’ x 19’1’’ x 13’1’’

* The information provided in this brochure is only for reference purposes. All information and data provided here are subject to change without notice. For specific project requirements, please reach out to Ohmium’s representatives for further evaluation.

** System efficiency is inclusive of all energy consumed including power electronics, stack, hydrogen dryer, water purification, cooling and telecom systems to go from AC power and city water to pressurized pure hydrogen, excluding additional system heating or cooling loads required for ambient temperature below 10ºC or above 30ºC.

*** Island size has been estimated for large-scale projects including maintenance access areas. Smaller installations may require additional access space.

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Any power, any water, anywhere.

Our design maximizes energy density and simplifies serviceability. Additionally, we pair this advanced solution with long-term monitoring, maintenance, and an optional performance guarantee with RM&M services. This comprehensive approach offers sustained operational efficiency and scalability as your business grows, while consistently delivering an exceptional customer experience.

Complete PEM hydrogen solution

Cutting-edge PEM electrolyzer solution from AC/DC power and city water to pressurized, pure hydrogen

24/7 assurance

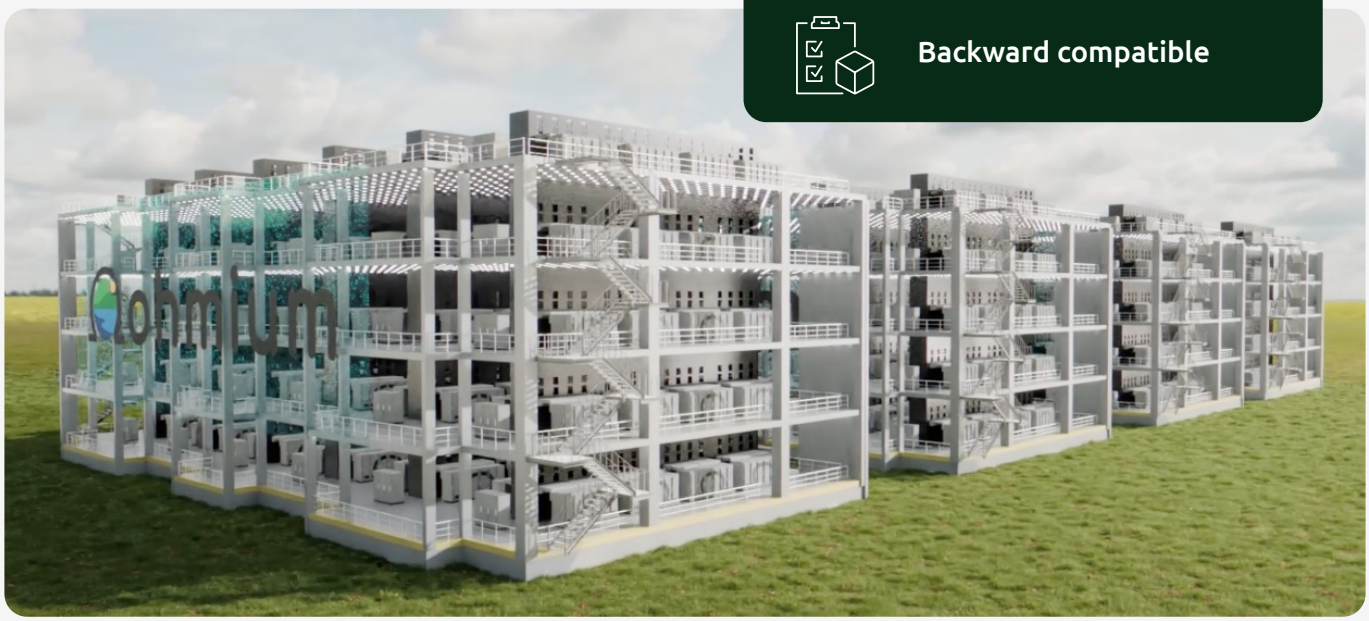
Continuous global remote monitoring and maintenance (RM&M) offering

Commitment to performance

Optional performance guarantee with RM&M services

Rapidly scalable from MW to GW

- Hyper modular units
- Interlocking design
- Backward compatible



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