



# Ohmium® cutting-edge PEM electrolyzer

Comprehensive, hyper modular hydrogen solution with industry leading efficiency, availability, and installation cost

LOTUS MARK 2



# Your comprehensive hydrogen solution

Ohmium offers cutting-edge PEM electrolyzers to meet the needs of customers worldwide. Our solution is designed to deliver cost competitive hydrogen with the exceptional system efficiency, minimizing installation costs, and ensuring high availability. With extensive experience from real-world installations, we ensure that our state-of-the-art hydrogen solution delivers optimal performance, regardless of whether your project is in a cold or warm climate.

By utilizing vertical stacking, we maximize energy density for optimal land usage. 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 utilizing AC/DC power and city water to generate pressurized and pure H<sub>2</sub>



## 24/7 assurance

Continuous global remote monitoring and maintenance (RM&M)



## Commitment to performance

Optional performance guarantee with RM&M services

## Rapidly scalable from MW to GW



Hyper modular units



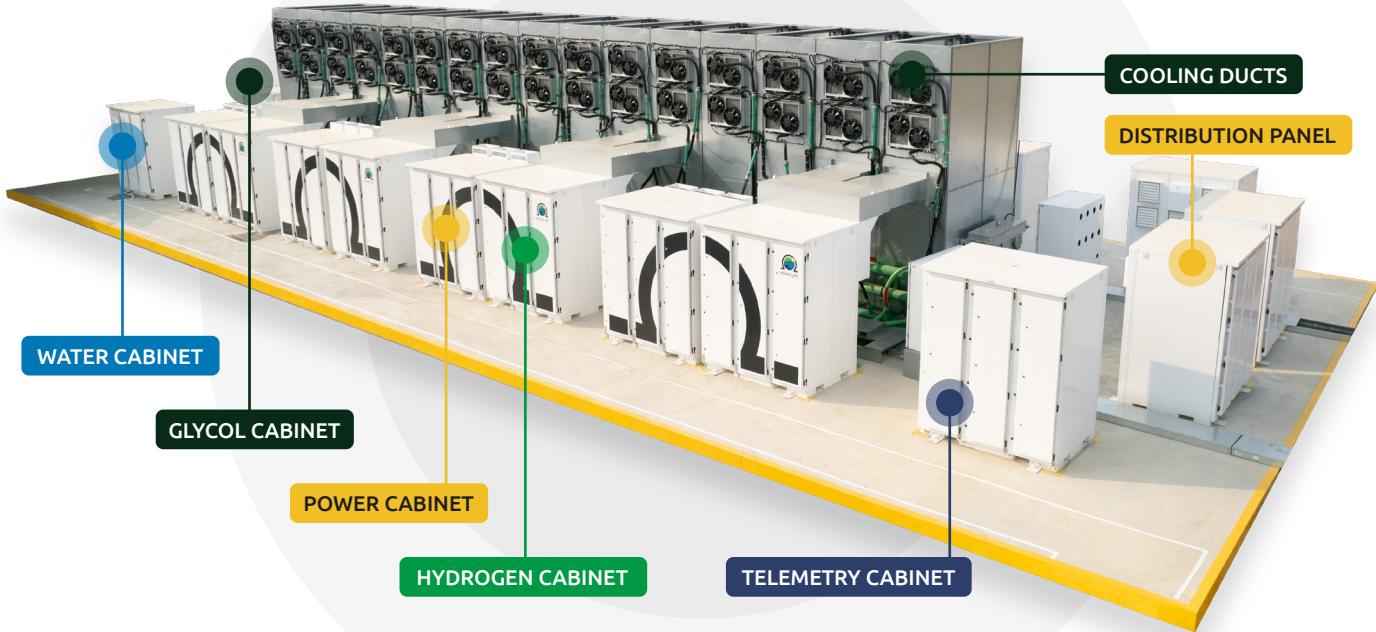
Interlocking design



Backward compatible



# Ohmium® Lotus Mark 2



## P series product specifications\*

Hydrogen production	Flow rate	1.5 tonnes per day
	Pressure	P series: up to 30 barg
	Purity	P series: 99.999% (optional: 99.9999%)
	Ramp-up time	8 sec
	Efficiency	P series: BOL: 53 kWh/kg**
Requirements	Inlet water consumption (city water)	20 L/kg of H <sub>2</sub>
	Power	3 phase with 480 VAC/60Hz, 415 VAC/50Hz or 400VAC/50Hz
Site	Environment	Outdoor rated for -25°C to 55°C (-13°F to 131°F); Optional -40°C
	Regulatory	Designed to CSA/ANSI B22734, ISO 22734, CE Installed per NFPA 2
	Location	Outdoor (ordinary, non-hazardous)
	Size	28.2m x 12.1m x 4m / 92'5" x 39'7" 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 10°C or above 30°C.



# Any power, any water, anywhere.

- ✓ Benefit from a state-of the-art solution based on American IP and Indian cost of manufacturing.
- ✓ Rapidly scale your projects using our standardized hyper modular design with backward compatibility.
- ✓ Global installations in USA, Europe, Middle East and India.
- ✓ Rely on advanced power electronics for smooth integration with renewable energy or grid (AC or DC).
- ✓ Maximize project value with no building requirement in cold or warm climates and high density from vertical stacking.
- ✓ Vertically integrated supply chains and gigawatt-scale manufacturing.

## Ohmium® cutting-edge PEM electrolyzer



Pressurized, high purity H<sub>2</sub> solution



Industry leading efficiency



Dynamic operations



Multi-level safety construct



High plant availability



Compact and outdoor

**Global Headquarters & Center of Excellence for R&D**  
Newark, California – USA

**Center of Excellence for Manufacturing, and R&D**  
Bengaluru and Chennai – India

**Sales:**  
Chile, Germany, India, Spain,  
United Arab Emirates, USA