Lotus™ PEM Hydrogen Electrolyzer

Scalable from Megawatts to Gigawatts
Outdoor, Interlocking-Modular, Rack in/out System
Interlocking-Modular, Flexible & Reliable
Hydrogen Electrolyzer Solution

Renewable Energy Sources (Wind, Solar, Hydro)

Grid Interconnection

Green Hydrogen for Energy, Industrial, and Transportation markets

Standard block for 24kg/h hydrogen production

Large-scale layout design

Power Electronics Module
Hydrogen Module
Cooling Module
Water Module
Telecom Module
Power Distribution Module

Water Management System

Electrolyzer site monitoring and control with edge system and software applications

Oxygen capture (optional)

ohmium’s System Design with
Standard Blocks

Electrolyzer Hardware Supply
Software & Data Solutions
Remote Monitoring & Management (RM&M)
**Lotus™ Mark 1 Product Specification**

<table>
<thead>
<tr>
<th>Hydrogen Production</th>
<th>Rate</th>
<th>6 kg per hour</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pressure</td>
<td>27.6 bar (400 psig)</td>
</tr>
<tr>
<td></td>
<td>Purity</td>
<td>Equal to or greater than 99.99% (&lt;5 ppm of O₂)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Water</th>
<th>2.7 LPM (0.71 GPM), assuming less than 2000 microsiemens/cm³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Power</td>
<td>3 phase with 480 VAC/60Hz, 380VAC/60Hz, 415 VAC/50Hz, or 400VAC/50Hz</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environment</th>
<th>Outdoor rated for -25° C to 50° C (-13° F to 122° F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regulatory</td>
<td>Designed to UL2264A (UL CCN NCBH), ISO 22734 installed per NFPA 2</td>
</tr>
<tr>
<td>Site</td>
<td>Outdoor (ordinary, non-hazardous) Lotus product consists of primary and auxiliary cabinets.</td>
</tr>
<tr>
<td>Enclosure</td>
<td>Cabinet dimensions (L x W x H) 1.8m x 1.3m x 2.2m (6ft x 4.3 ft x 7.2 ft)</td>
</tr>
</tbody>
</table>

*The information provided in this brochure is only for reference purposes. All information and data provided here are subject to change without notice. The specifications provided herein regarding the suitability of products for certain types of applications are based on ohmium’s knowledge of typical requirements in generic applications. All parameters must be validated for each customer application by the customer’s technical experts and ohmium. Please reach out to ohmium’s representatives to evaluate which product best suits your requirements.*
Innovative Hydrogen Electrolyzer Company

- Our Electrolyzer products make a superior choice for your Industrial, Mobility and Power-to-X applications.

- Our interlocking modular system design scales from Megawatts to Gigawatts sized projects to meet your project requirements.

- Our solution includes dependable O&M field services to ease your mind for the operation of your Hydrogen Electrolyzer system.

- Our product operates safely and reliably based on PEM Electrolyzer technology designed and engineered in Silicon Valley (US) and India.

Nine Advantages with ohmium's Solution

- Compact & Scalable
  One product for Megawatts to Gigawatts

- Modular & Outdoor
  Interlocking Design

- Safe & Reliable
  Reliable Sensors

- Pressurized
  High Purity H₂
  High System Integration

- Rapid Installation
  Using forklift and lift truck to install cabinets

- High Plant Availability
  Repair is sectionized

- High Efficiency
  Rack-mounted power supply

- Dynamic Operation
  Following input power and load variations

- Flexibility
  Adaptation to segment requirements

Global Headquarters
Incline Village (NV), USA

Center of Excellence for R&D
Fremont (CA), USA
Chennai, INDIA

Center of Excellence for MFG
Bengaluru, INDIA

Sales:
- California, USA
- Nevada, USA
- Italy, EUROPE
- UAE, MENA
- Bengaluru, INDIA
- Sydney, AUSTRALIA