



Green Hydrogen at Work

The Plug EX-425D

Best-in-class PEM electrolysis based on nearly 50 years of experience



Plug is the only company able to deliver on the entire hydrogen ecosystem.

Our portfolio includes products that produce, store, transport, dispense, and convert hydrogen to carbon-free electricity. Plug's turnkey, plug-and-play electrolyzers utilize proton exchange membrane (PEM) technology with decades of field experience and a track record of high performance and reliability.

Plug's electrolyzers are the safest, most efficient, and deliver the lowest total cost of ownership on the market today.

PEM electrolyzers generate hydrogen from water using electricity and a special membrane. No caustic chemical solutions required.

The Plug Gigafactory has the highest capacity in the industry (1GW), utilizing lean principals and cutting-edge technology.

EX-425D System Specifications

The Plug EX-425D provides up to 425 kg/day of high-quality on-site hydrogen.

Instant Load Following

Hydrogen production rate adjusts as electric capacity is available, making this a perfect product for use with grid or renewable energy resources.

Compact

Containerized solution is easy to site near point of use.

Modular and Scalable

Pair multiple units for high demand and availability.

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Input

Stack Power Consumption	Up to 1MW
Voltage & Frequency	480VAC, 60HZ (USA) 400VAC, 50HZ (EU)
Water Consumption	13 liters per kg of H2 produced

Output (Hydrogen Gas)

Volume	200 Nm ³ / hour
Mass	425 kg / day
Purity	Up to 99.999%
Pressure	40 barg / 580 psig (w/o compressor)

Operational

Start Up Time	30 sec warm / < 5 min cold
Average Stack Efficiency	49.9 kWh / kg
Load Following	Instantaneous

Physical / Environment

Installed Footprint	29.3m ² / 320 ft ²
Ambient Temperature	-20°C to +40°C (wider temperature range optional)

Other

Compliance / Certifications	ISO 22734, NFPA 2, CE
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