

PEM Electrolysis

CONTAINERIZED SOLUTION

HyAxiom PEM Electrolysis products provide high system efficiency and scalable technology that connect to renewable power resources to generate 100% green hydrogen.

Flexible Operations

Load following and demand following for ease of integration with renewables.

Remote Monitoring & Control

Leveraging industry-leading remote monitoring and data analytics from our fuel cell experience to maximize product efficiency and uptime

SYSTEM HIGHLIGHTS

HYDROGEN PRODUCTION

H ₂ Production Rate	450-500 kg/day
System Efficiency @ BOL	51.6-51.8 kWh/kg H ₂
H ₂ Product Purity	99.995%+ (ISO 14687 Type I Grade C)
H ₂ Product Pressure	30 barg

OPERATING CHARACTERISTICS

Start Time from Standby	<60 sec
Ramp Time to Full Capacity	10 sec
Turndown Capability	10%



ENVIRONMENTAL CHARACTERISTICS

Ambient Operating Temp-20°C to 40°C (option for 50°C)

WATER MANAGEMENT CHARACTERISTICS

Water Supply Quality	Potable Water
Water Consumption	<0.0156 m3/kg H ₂
Water Discharge	<0.0051 m ³ /kg H ₂

SITE ELECTRICAL INTERFACES

Supply Voltage	4.16-35kV (13.8kV base)
Frequency	50/60 Hz
Power Quality (with aux load)	0.9 PF, <5% THD

CODES AND STANDARDS

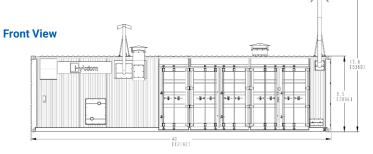
ISO 22734: Hydrogen generators using water electrolysis

Our system can adhere to region-specific certification requirements as needed, ensuring compliance wherever you operate

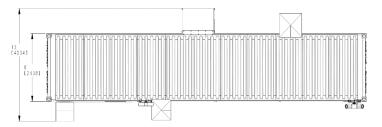
SYSTEM DIMENSIONS (Containerized Solution – 1~1.25 MW)

ELECTROLYSIS MODULE

Dimensions in ft (mm): 8 (2438) W X 40 (12192) L X 9.5 (2896) H



Top View



Example dimensions for reference:

POWER CONDITIONING HARDWARE COOLER MODULE CHILLER MODULE

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