PEM electrolyzers

accelerate the shift™

HyLYZER® 250/500

HyLYZER®isAccelera'sgloballyprovenmodularwaterelectrolyzersystemdesignedforeasyon-siteinstallation,with simple interconnectivity to scaleup,andanunrivaledrecordforreliability,lowmaintenanceandon-sitesafety.Recommendedforprojectsbetween 250-5,000 Nm3/h.

Benefits

Proven technology, compliant with highest safety standards

Turnkey containerized solution for weather-proof outdoors installation

30 barghydrogen delivery pressure (without compression)

Integrated hydrogen purification system

Features	HyLYZER® 250-30	HyLYZER® 500-30
Technology	PEM (proton exchange membrane)	
Nominal power rating	1.25 MW	2.5 MW
Number of cell stacks	1	2
Hydrogen production	22.5 kg/h 250 Nm3/h	45 kg/h 500 Nm3/h
Hydrogen delivery pressure	30 barg(435 psig) without a compressor	
Hydrogen quality	99.998% (dry basis), max impurities: 02 < 2 ppm, N2 < 12 ppm	

We are Accelera
And we're on a mission to transition the world's most economically critical industries to zero-emissions power.

accelera™
by Cummins

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Scope of supply

Stackandbalance-of-stack (BOS)	Indoor	Outdoor
Cell stacks and gas generation		●
Power rectifiers		●
Control panel		●
Water polishing system		●

●: included

Balance-of-plant (BOP)	Indoor	Outdoor
Rectifier cooling		●
Gas cooling		●
Electrolysis system cooling		●
Water purification system		●
Instrument air compressor		●
Hydrogen purification system		●

Technical specifications	HyLYZER® 250-30	HyLYZER® 500-30
Operating range	7-100%	
DC power consumption at stack*	51 kWh/kg	
System specific consumption*	54.4 kWh/kg	53.2 kWh/kg
Utilities required to operate the plant	Electrical power, potable water, nitrogen for purging	
Rectifier specifications	IGBT; 6 to 36kV; 50/60 Hz; 1.5 MVA; 97% e ciency	IGBT; 6 to 36kV; 50/60 Hz; 3.2 MVA; 97% e ciency
Auxiliary installed power	117 kVA	
Potable water consumption	13-17 L/kg hydrogen	
Total footprint (including maintenance area)	17 m x 13 m (221 m2)	
Installation environment	Outdoors -20°C to 40°C / -4°F to 104°F	

*At nominal capacity, BOL

Applicable codes and standards Pressure Equipment Directive 2074/68/EU, Low Voltage Directive 2074/35/EU, Machinery Directive 2006/42/EC, Electro-Magnetic Compatibility 2014/30/EU, ATEX Directive 2014/34/EU, IEC 61511, IEC 61508, IEC 60079-10-1, NFPA 2, NFPA 497, National Electrical Code (NEC), ANSI/NFPA 70, ASME B37.3-2016, ASME Boiler and Pressure Vessel Code 2077, CSA C22.I and C22.2, CSA B57 2079, CAN/BNQ 7784-000/2007.

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The information herein is being provided for reference only and is subject to change without notice.

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Learn more at **acceleraZero.com**