

GENFUEL®

THE 1MW ELECTROLYZER

Best-in-class stack life expectancy of 80,000 hours

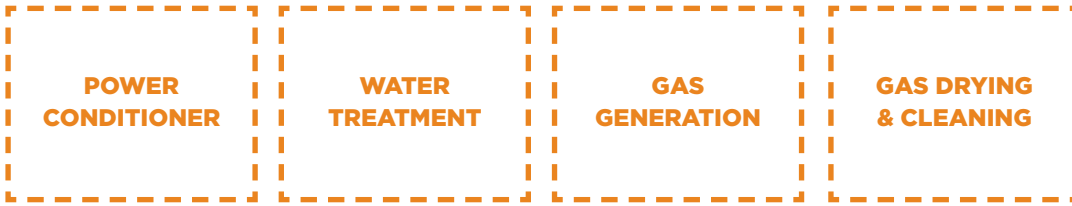
The GenFuel 1MW proton exchange membrane (PEM) electrolyzer system provides up to 1MW of on-site hydrogen for markets including heavy industry, e-mobility and energy storage. Electrolyzers generate hydrogen from water using electricity and a special membrane and “green” hydrogen is generated by using renewable energy inputs, such as solar or wind power. The 1MW product is based on 47+ years of experience in design, production and sales of electrolyzer stacks and integrated products.

- Flexible & Scalable to meet a wide array of performance requirements
- Robust & Dependable, providing industry-leading performance
- Turnkey 1MW containerized system for simple siting and installation
- Environmentally-friendly, with lowest O&M in its class
- World class lifetimes with stable operating voltages



Your full-service hydrogen generation system.

ADAPTABLE & MODULAR SOLUTIONS SUPPORT INDUSTRY EXPANSION



THE GENFUEL 1MW ELECTROLYZER SYSTEM IS A MODULAR BUILDING BLOCK TO SUPPORT YOUR ENERGY STORAGE, HYDROGEN FUELING STATION AND INDUSTRIAL NEEDS.

PRODUCT SPECIFICATIONS (SYSTEM)	
SPECIFICATION	RATING
INPUT	
ELECTRICAL INPUT	480VAC, 60Hz (USA) / 400VAC, 50Hz (EU)
BALANCE OF PLANT	
WATER	Feed: Maximum 411 kg/hr @ 2barg, potable water
PHYSICAL	
DIMENSIONS (W X H X L)	8' x 8' x 40' container
WEIGHT	35 tons
AMBIENT TEMPERATURE	-20°C to +40°C
PERFORMANCE	
HYDROGEN PRODUCTION	200Nm ³ /hr / 18 kg/hr
HYDROGEN PURITY	99.999% with H ₂ dryer*
HYDROGEN PRESSURE	40 barg
STARTUP TIME	30 seconds (warm start) / 5 minutes (cold start)
EFFICIENCY	Up to 84%
LIFE EXPECTANCY	Stack: 80,000 hours
COMMUNICATION	24/7 data acquisition and remote monitoring
CERTIFICATIONS	Compliant to ISO 22734, NFPA 2, CRN, CE

Product specifications are subject to change without notice.

*99.9% without H₂ dryer

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