FuelCell Energy

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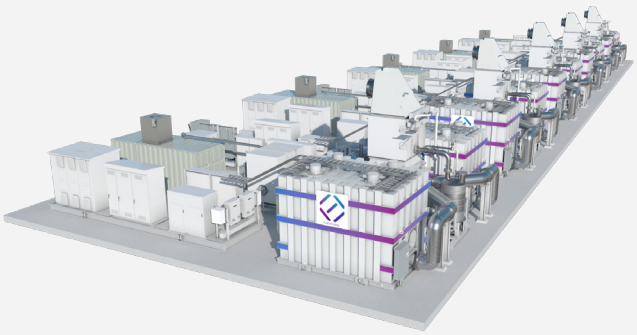

Data Sheet

12.5 MW FuelCell Energy Block System™

A modular fuel cell system designed to scale on-site power to hundreds of megawatts

12.5 MW FuelCell Energy Block Systems can deliver utility-scale power from a consolidated design and compact footprint. Megawatt-class modules are engineered to thrive in high-output, high-reliability applications demanded by hyperscale and enterprise data centers. The combustion-free systems are designed for clean, quiet, and simple power generation that can grow with your demand.

Key Benefits

- Reliable power
- Scalable design
- High efficiency
- Low emissions
- Fast deployment
- Pre-engineered package

	Primary Fuel Input - Natural Gas
Output and Performance[1]	
Net Power Output	12.5 MW
Voltage / Frequency[2]	13.8 kVAC / 60 Hz
Heat Output (Maximum)[3]	31.0 MMBTU/h
Efficiency, Electrical/Overall (LHV)	50% / 85%
Heat Rate, HHV	7,580 BTU/kWh
System Inputs	
Fuel Consumption[4]	94.8 MMBTU/h; 91,570 SCFH
Fuel Inlet Pressure	15 - 20 psig
H_2 Fuel Blending Range	0% - 50%
Water Consumption/Discharge[5]	30 gpm / 20 gpm
Emissions	
NO_x and CO Emissions	0.01 lb/MWh
PM10, SO_x Emissions	Negligible
VOC	0.02 lb/MWh
CO_2 Emissions (Electric Only)	886 lb/MWh
CO_2 Emissions (With Full Heat Recovery)[6]	554 lb/MWh
Physical and Environmental Attributes	
Ambient Temperature Range	-20°F to 120°F
Location	Outdoor
Noise	62 dBA @ 30 ft
Codes and Standards[7]	
Safety	ANSI/CSA FC-1, NFPA 70 (NEC)
Grid Interconnection	UL1741, IEEE1547, CA Rule 21
Emissions	CARB 2007, CARB 2013 (Biogas)

[1]Ratings at beginning of operation.

[2]Other medium voltage outputs available upon request.

[3]Maximum heat recovery based on cooling the exhaust to 120°F.

[4]Based on fuel heating value of 1035 BTU/SCF, HHV.

[5]Water recovery solutions that minimize water consumption and discharge are available upon request.

[6]CO_2 emissions with full heat recovery are based on the total electric and thermal energy available from the system.

[7]Each 2.5 MW FCE 3000 is independently certified to these standards.

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