



FuelCell  
Energy

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## Data Sheet 1500 Fuel Cell System

### A 1250 kW fuel cell system for reliable, low-carbon distributed energy generation

FuelCell Energy's 1500 fuel cell system generates 1250 kW of reliable, efficient, and low-carbon power. The fuel flexible system is capable of operating on natural gas, biogas, and natural gas/H<sub>2</sub> blends of up to 40% H<sub>2</sub> with no reduction in power output or efficiency. The system produces heat that can be used to generate hot water, high-pressure steam, or cooling to increase overall efficiency. The 1500's low emissions profile allows for quicker permitting, providing customers with faster time to power.

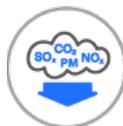
#### Key Benefits



Fuel  
flexible



Carbon capture  
ready



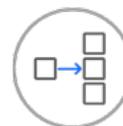
Low  
emissions



Microgrid  
capable



Usable  
heat



Scalable  
design

### System Outputs

Nameplate Power Output	1250 kW
Voltage	3-phase, 480 V
Frequency	60 Hz
Noise	72 dBA @ 10 ft

### System Inputs

Fuel	Natural Gas, Biogas <sup>1</sup> , Natural Gas/Hydrogen Blend <sup>2</sup>
Water Consumption/Discharge	4 gpm/2 gpm

### Efficiency

Electrical Efficiency (LHV)	49% - 44%
Heat Rate (HHV)	7,720 - 8,578 Btu/kWh
Total Efficiency	>80%

### Emissions

NO <sub>x</sub> Emissions	< 0.01 lb/MWh
VOC, PM10, SO <sub>x</sub> Emissions	Negligible
CO <sub>2</sub> Emissions	890 - 990 lb/MWh

### Environment

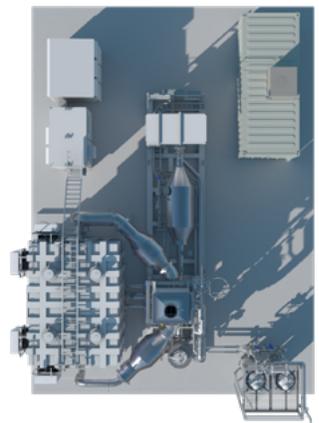
Location	Outdoor
Temperature Range	-20°F to 120°F

### Codes & Standards

Safety	CSA-FC1, UL1741, NFPA 70 (NEC)
Grid Interconnection	IEEE 1547, CA Rule 21
Emissions	CARB 2007, CARB 2013 (Biogas)

### System Dimensions

Length	58' 0"
Width	42' 0"
Height	20' 0"



<sup>1</sup>Biogas must be pre-conditioned to meet FCE's fuel composition requirements. FCE can supply the pre-conditioning system, if desired. Ratings listed based on 60% methane. <sup>2</sup>Power output and efficiency are impacted at H<sub>2</sub> concentrations >40%.

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