

# Hydrogen Fuel Cell

## 24/7 Emission-Free Electricity

Bloom's hydrogen fuel cells provide a combustion-free method of generating resilient, sustainable, and predictable electricity. Hydrogen fuel cells run on pure hydrogen and provide 24/7 "always-on" power reliability without harmful emissions. Fuel cells are a flexible, scalable, and distributed power technology that can be sited in a compact footprint.

Bloom's hydrogen fuel cells offer superior efficiency compared to other fuel cell technologies, and leverage the same solid oxide platform that has over 700 installations globally.

- **Highly efficient, zero-carbon, distributed energy solution**
- **Proven track record in fuel cell technology with 15+ years' experience**
- **Superior performance compared to alternative technologies**



### Resilient

On-site power without disruption. Always on even during extreme weather and outages.



### Sustainable

24/7 power without carbon emissions, air pollutants, or water consumption.



### Predictable

Lock in energy costs for the long term.

## Specifications

### Outputs

Name-plate power output	300 kW
Load output (net AC)	300 kW
Electrical connection	480V, 3-phase, 60 Hz

### Physical Attributes & Environment

Weight	15.8 tons
Dimensions (variable layouts)	17' 11" x 8' 8" x 6' 9" or 32' 3" x 4' 4" x 7' 2"
Temperature range	-20° to 45°C
Humidity	0% to 100%
Seismic vibration	IBC site class D
Location	Outdoor
Noise	< 70 dBA @ 6 feet

### Inputs

Fuels	Min 99.90% Hydrogen
Input fuel pressure	10 to 14.5 psig
Input fuel temperature	Ambient
Water	None during normal operation
Auxiliary power	None during normal operation

### Efficiency

BOL electrical efficiency (LHV net AC)	52%
BOL Hydrogen consumption	17.3 kg/hr

#### Additional Notes

Specifications subject to change. Remotely managed and monitored by Bloom Energy. Capable of emergency stop based on input from the site. Access to a secure website for monitoring system performance and environmental benefits.



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Accelerate your path to a  
net-zero future.