

300 KILOWATTS DFC300

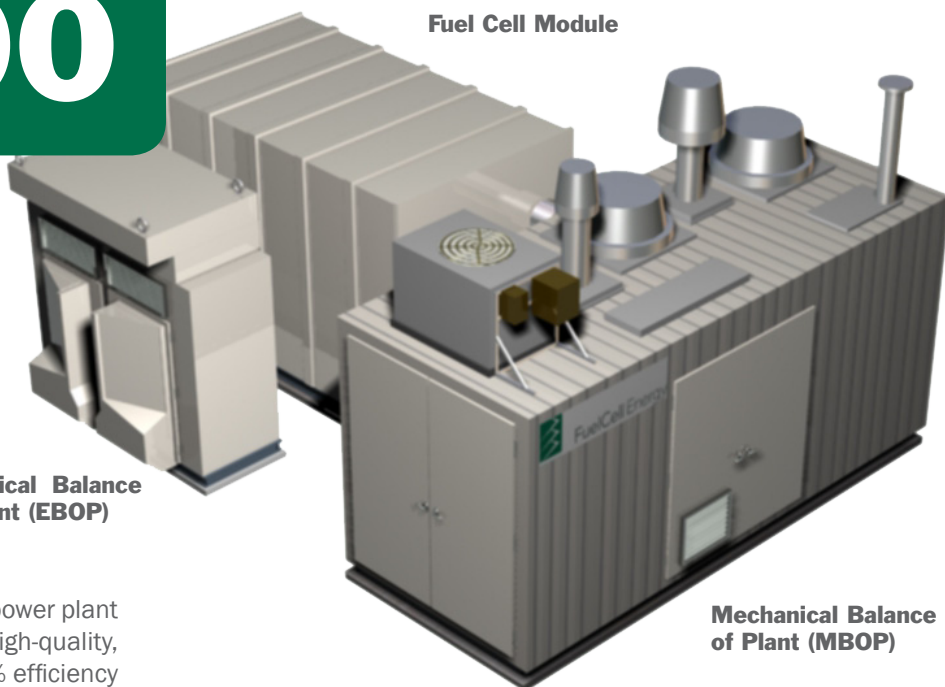
KEY FEATURES

- High Efficiency
- Low Environmental Impact
- Fuel Flexibility
- High Reliability
- Quiet Operation

ADVANTAGES

The DFC®300™ stationary fuel cell power plant from FuelCell Energy provides high-quality, Ultra-Clean electrical power with 47% efficiency in a compact footprint. Designed for commercial and industrial applications, the system offers operation around-the-clock, easy transport, quiet and reliable operation, and simple site planning and regulatory approval.

Electrical Balance of Plant (EBOP)



Fuel Cell Module

Mechanical Balance of Plant (MBOP)

**300 kW, 480 VAC,
333 kVA, 50 or 60 Hz**

PERFORMANCE

Gross Power Output

Power @ Plant Rating	300 kW
Standard Output AC voltage	480 V
Standard Frequency	60 Hz
Optional Output AC Voltages	460, 440, 420, 400, 380 V
Optional Output Frequency	50 Hz

Efficiency

LHV	47 +/- 2 %
-----	------------

Available Heat

Exhaust Temperature	700 +/- 50 °F
Exhaust Flow	3,950 lb/h
Allowable Backpressure	5 iwc

Heat Energy Available for Recovery

(to 250 °F)	480,000 Btu/h
(to 120 °F)	808,000 Btu/h

Fuel Consumption

Natural gas (at 930 Btu/ft ³)	39 scfm
Heat rate, LHV	7,260 Btu/kWh

Water Consumption

Average	0.9 gpm
Peak during WTS backflush	10 gpm

Water Discharge

Average	0.45 gpm
Peak during WTS backflush	10 gpm

Pollutant Emissions

NOx	0.01 lb/MWh
SOx	0.0001 lb/MWh
PM10	0.00002 lb/MWh

Greenhouse Gas Emissions

CO ₂	980 lb/MWh
CO ₂ (with waste heat recovery)	520-680 lb/MWh

Sound Level

Standard	72 dB(A) at 10 feet
Optional	65 dB(A) at 10 feet



FuelCell Energy

Ultra-Clean, Efficient, Reliable Power

SPECIFICATIONS

DFC300

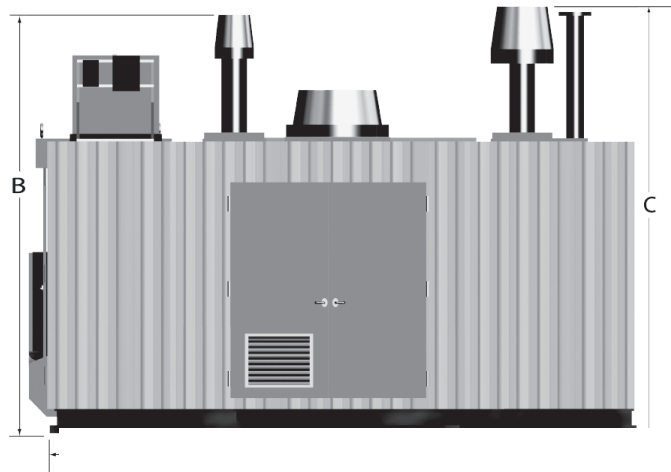
DIMENSIONS

Front View

A Overall Width	20.0 ft
B Height of Air Intake Filter	15.1 ft
C Height of Exhaust Stack	14.5 ft

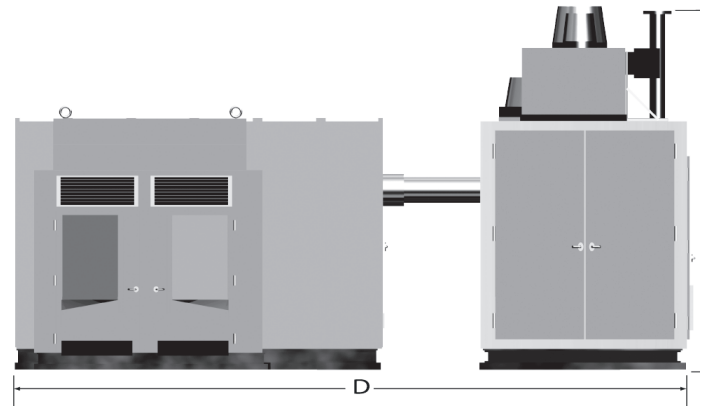
Side View

D Overall Length	20.0 ft
E Height of EBOP	15.1 ft
F Height of Discharge Vent	14.5 ft



WEIGHTS

Mechanical Balance of Plant	27,000 lb
Electrical Balance of Plant	15,000 lb
Fuel Cell Module	35,000 lb



EXPERIENCE & CAPABILITIES

Direct FuelCell® power plants are generating ultra-clean, efficient and reliable power at more than 50 locations worldwide. With more than 300 megawatts of power generation capacity installed or in backlog, FuelCell Energy is a global leader in providing ultra-clean baseload distributed generation to utilities, industrial operations, universities, municipal water treatment facilities, government installations and other customers around the world. The Company's power plants have generated more than 1.7 billion kilowatt hours of ultra-clean power using a variety of fuels including renewable biogas from wastewater treatment and food processing, as well as clean natural gas.

This brochure provides a general overview of FuelCell Energy products and services. This brochure is provided for informational purposes only. Warranties for FuelCell Energy products and services are provided only by individual sales and service contracts, and not by this brochure. This brochure is not an offer to sell any FuelCell Energy products and services. Contact FuelCell Energy for detailed product information suitable for your specific application. FuelCell Energy reserves the right to modify its products, services, and related information at any time without prior notice.

FuelCell Energy's fleet of Direct FuelCell power plants are certified to or comply with a variety of commercial and industrial standards, such as: ANSI/CSA America, UL, CARB, OSHA, IEEE and NFPA.

FuelCell Energy with the corresponding logo is a registered trademark of FuelCell Energy, Inc. "Direct FuelCell," "DFC" and "DFC/T" are registered trademarks of FuelCell Energy, Inc. © FuelCell Energy, Inc. 2013: All rights reserved.

