

# PROGEN

## **FUEL CELL POWER** **Moving Mobility into the Future**

Plug Power's suite of ProGen fuel cell engines are flexible power building blocks designed for independent companies to use in heavy duty motive applications. ProGen engines provide robust and cost-effective solutions with industry-leading performance, reliability and time-to-market for OEMs looking to adopt sustainable fuel cell power.

### **Powerful Benefits**

#### **COMPLETE FUEL CELL SYSTEM**

Plug Power's ProGen fuel cell system includes everything you need for your heavy duty motive application, including the fuel cell stack and all required subsystems for humidification, air delivery, fuel regulation and cooling. ProGen engines balance the need for rapid acceleration with operational efficiency and flexibility, while generating no greenhouse gas emissions.

#### **FLEXIBLE ARCHITECTURE AND SCALABLE POWER**

ProGen engines are designed with simplicity in mind. Their design allows for packaging flexibility including both complete, integrated systems and those with distributed air and cooling sub-systems. ProGen's heavy duty scalable power ranges from 20kW to 100kW.

#### **RUGGED RELIABILITY**

ProGen provides superior power even in the most rugged conditions, operating in a wide range of climates including sub-freezing temperatures. System reliability is backed up by Plug Power's experience operating more than 25,000 fuel cell systems in the field.

#### **INTEGRATED SAFETY SYSTEM**

ProGen's safety system is based on more than 180 million operating hours of experience. Its sophisticated array of sensors complement a proven hydrogen detection and ventilation scheme.

#### **ZERO-EMISSION**

Plug Power's ProGen engines enable users to meet transportation emission reduction targets. Using hydrogen as a fuel, only heat and water are generated as by-products.



**Powering Your Possibilities.**



PRODUCT SPECIFICATIONS		P30KW	P60KW	P85KW	P100KW
PERFORMANCE	RATED NET POWER (kW)	30	60	85	100
	OUTPUT VOLTAGE RANGE (VDC)	120-200	240-400	344-570	400-670
	OUTPUT CURRENT RANGE (A)	0 to 275			
FUEL CELL MODULE	DIMENSIONS (L X D X H, MM)	798 X 503 X 402	1005 X 627 X 465	1005 X 802 X 470	1005 X 850 X 507
	WEIGHT (KG)	142	243	298	337
COOLING MODULE <sup>1</sup>	DIMENSIONS (L X D X H, MM)	810 X 253 X 415	1047 X 253 X 760	1047 X 253 X 760	1047 X 253 X 894
	WEIGHT (KG)	37	62	88	103
AIR MODULE <sup>2</sup>	DIMENSIONS (L X D X H, MM)	402 X 341 X 254	402 X 341 X 254	402 X 341 X 254	503 X 341 X 254
	WEIGHT (KG)	15	21	21	32
ENVIRONMENTAL	AMBIENT TEMP (°C)	-30 TO +50			
	INTRUSION PROTECTION RATING	IP55			
	SHOCK/VIBRATION (G)	UP TO 15			
FUEL / COOLANT	FUEL	Hydrogen per iso 14687-2:2012 @ 35 - 700 barg			
	COOLANT	Deionized water OR 50/50 ethylene glycol/deionized water			

<sup>1</sup> Includes coolant pump, controller and plumbing

<sup>2</sup> Includes air compressor, motor, motor controller and mass air flow sensor

Specifications are subject to change at any time.

## TESTED. PROVEN. RUGGED. RELIABLE.

Plug Power is driving the electrification of mobility today, with over 25,000 deployed fuel cells and more than 180 million run-hours in mobility applications. GenFuel hydrogen customers have performed more than 17 million hydrogen fills of electric vehicles, dispensing more than 10 million kilograms of hydrogen.

**Corporate Headquarters**  
968 Albany Shaker Road  
Latham, NY 12110  
518.738.0320

**West Coast**  
15913 E. Euclid Ave.  
Spokane, WA 99216  
509.228.6500

**Europe**  
1 Place Paul Verlaine  
92100 Boulogne-Billancourt  
France

