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.
## Product Specifications

<table>
<thead>
<tr>
<th>Performance</th>
<th>P30KW</th>
<th>P60KW</th>
<th>P85KW</th>
<th>P100KW</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rated Net Power (kW)</strong></td>
<td>30</td>
<td>60</td>
<td>85</td>
<td>100</td>
</tr>
<tr>
<td><strong>Output Voltage Range (VDC)</strong></td>
<td>120-200</td>
<td>240-400</td>
<td>344-570</td>
<td>400-670</td>
</tr>
<tr>
<td><strong>Output Current Range (A)</strong></td>
<td></td>
<td></td>
<td>0 to 275</td>
<td></td>
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</tbody>
</table>

### 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
1 Includes coolant pump, controller and plumbing
- **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
2 Includes air compressor, motor, motor controller and mass air flow sensor
- **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

1 Includes coolant pump, controller and plumbing
2 Includes air compressor, motor, motor controller and mass air flow sensor
Specifications are subject to change at any time.

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**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.