Approx power range: 10 - 100 kW (available to 250 kW)
- Precision instrumentation for reliability and repeatability
- Comprehensive safety features
- Emerald™ control and automation software
- Data monitoring of CVM and all process parameters
- Easily expandable for additional I/O and diagnostic tools
- Fully automated for unattended operation
- Two-piece design for ease of installation
- Steam or contact humidification technologies available
- Resistive or regenerative loads available
- Available CE certificate of conformity
The G700 is the most sophisticated large-stack test station in the world. It is the full stack test unit of choice for the world’s automotive OEMs and high power fuel cell developers.

**Emerald™** : Our control and automation software offers exceptional functionality with a user-friendly graphical interface. Enhanced with our proprietary Emerald™ automation language and load following technology, Emerald™ comprehensively manages the full range of test station parameters with a simple user-friendly interface that permits even novices to assemble automation scripts in minutes. Emerald™ is exponentially more powerful than look-up table automation systems, and computer programming skills are not required to create even complex automation scripts. Greenlight even offers optional pre-written scripts to help you start testing right away.

**Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>POWER RANGE</strong></td>
<td>10 - 100 kW; available to 250 kW (custom ranges available)</td>
</tr>
</tbody>
</table>
| **GAS FLOWS**                                | Standard anode flow range 10 - 2000 nlpm; available to 3000 nlpm  
                                           | Standard cathode flow range 25 - 5000 nlpm; available to 7500 nlpm |
| **GAS MIXING**                               | Anode and cathode inlets up to 8 gases available  
                                           | GAS HUMIDIFICATION up to 90°C (194°F)† higher temperatures available  
                                           | up to 95°C (203°F)† higher temperatures available |
| **STACK COOLING**                            | Temperature control (facility provided fluid) up to 95°C (203°F)†  
                                           | **STACK PRESSURE CONTROL** Back pressure control up to 300 kPa (45psia)† higher pressures available  
                                           | optional: resistive or regenerative available |
| **PROGRAMMABLE LOAD BANK**                   | CELL VOLTAGE MONITORING up to 800 additional channels available (average accuracy +/- 1mV)  
                                           | **DIMENSIONS** (L x W x H) (approximate) 3500 x 1600 x 2300 mm (137 x 63 x 90 in) |

† Dependent on actual operating conditions - higher temperature, pressure options available

Includes 3 levels of safety:
1. Hard-wired interlocks
2. Factory software interlocks
3. User-configurable software interlocks (warning high/low alarms and shut-down high/low alarms)
   - N₂ purge
   - H₂ sensor
   - Manual emergency stop
   - Optional stack enclosure