

G20 • G40 • G60 G100 • G200

GREENLIG



Single Cell and Component Test Stations



- Emerald[™] control software for fully automated, unattended operation
- Comprehensive, user-adjustable safety features
- Expandable with additional I/O and diagnostic tools
- Multiple humidification technologies available, including optional Rapid Response™
- Accurate reformate gas simulation (automated blending)
- Available CE certificate of conformity
- Available with optional environmental chambers, high temperature and DMFC operation

Specifications







	G20	G40	G60	G100	G200	
APPROXIMATE POWER RANGE	1 - 100 W	5 - 50 W	10 - 500 W	40 - 2000 W	80 - 4000 W	
GAS FLOWS	100:1 turndown MFC's					
Standard anode flow range	0.01 - 1 nlpm	0.015 - 1.5 nlpm	0.1 - 10 nlpm	0.25 - 25 nlpm	0.8 - 80 nlpm	
Standard cathode flow range	0.02 - 2 nlpm	0.025 - 2.5 nlpm	0.2 - 20 nlpm	0.8 - 80 nlpm	2 - 200 nlpm	
GAS HUMIDIFICATION TECHNOLOGY	gas immersion with sparger	contact humidifier (optional low flow sparger)		contact h	contact humidifier	
Dew point control	up to $90^{\circ}C^{\dagger}$ ($194^{\circ}F$) [†]					
Gas temperature	up to 110° C ⁺ (230°F) ⁺					
Humidifier by-pass	optional; with automatic control					
ELECTRICAL END PLATE HEATER CONTROL	individual anode & cathode PID heater controls included					
LIQUID CELL COOLING	- high temperature operation optional					
CELL PRESSURE CONTROL	automated					
Back pressure control	Up to 300kPa ⁺ (45psi) ⁺ higher pressures available					
LOAD BANK Standard, current, voltage	80A, 50V	80A, 50V	125 - 1000A, 50V	125 - 1000A, 50V	500 - 1000A, 50V	
CELL VOLTAGE MONITORING Standard number of channels	1 (average accuracy +/- 1mV) up to 1000 channels (average accuracy +/- 1mV)					
DIMENSIONS	635 x 546 x 788 mm (25 x 21.5 x 31 in) Benchtop design	890 x 710 x 1855 mm (32 x 28 x 73 in)		1375 x 1132 x 1810 mm (54 x 45 x 72 in)		

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

Emerald[™]: Our flexible control software features a user-friendly interface, and is enhanced with our proprietary automation capability. The flexible Emerald[™] scripting language allows complex script assembly within minutes for all types of users; from novices to experts.



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