



## Pre-Commercial Fuel Cell Products for Back-Up Power Applications



# MGEN Series



► Easily removable cells for maintenance, service or repair

► Flexibility in customizing output voltage and current without increasing size or cost

► Combined heat and power high efficiency units

► Compact high power density units

► Contains Microcell's extruded micro-fiber cell technology

PRODUCT CHARACTERISTICS		MGEN500	MGEN1000	MGEN2000
<b>Fuel Cell Module</b>				
Type		PEM	PEM	PEM
Power Output (Nominal)		500 W	1,000 W	2,000 W
Power Output (Peak)		1,000 W	1,700 W	2,700 W
Output Voltage		48 Vdc	48 Vdc	48 Vdc
Output Voltage Regulation		+/- 5%	+/- 5%	+/- 5%
Start Up Time		<1 min to 50% load	<1 min to 50% load	<1 min to 50% load
<b>Optional Hot Water Heater</b>				
Size		5 gallon	20 gallon	40 gallon
Temperature		Adjustable, 130° F max	Adjustable, 130° F max	Adjustable, 130° F max
Time to Temperature		1-2 hours	1-2 hours	1-2 hours
<b>Dimensions (standard), inches</b>				
Custom (Not including fuel storage)		24.5x21x16 per specification	24.5x21x16 per specification	24.5x21x16 per specification
<b>Fuel Supply</b>				
Hydrogen Fuel Pressure		Industrial Grade >5 psi (supply) 5 psi (on board)	Industrial Grade >5 psi (supply) 5 psi (on board)	Industrial Grade >5 psi (supply) 5 psi (on board)
<b>Operation</b>				
Warranty		1 yr	1 yr	1 yr
Extended-Warranty (optional)		5 yr	5 yr	5 yr
<b>Emissions</b>				
Water		<0.75 liters/hour	<1.3 liters/hour	<2.0 liters/hour
Noise		<60 dBA at 1 meter	<60 dBA at 1 meter	<60 dBA at 1 meter
Heat		< 3415 BTU/hr at peak power	< 6830 BTU/hr at peak power	< 10245 BTU/hr at peak power
<b>Control</b>				
		Microprocessor with LED panel and alarms	Microprocessor with LED panel and alarms	Microprocessor with LED panel and alarms
<b>Monitoring</b>				
		Local/Remote	Local/Remote	Local/Remote

Specifications subject to change without notice.

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