



FCgen®-micro

Ballard's FCgen®- micro is a low-power proton exchange membrane (PEM) fuel cell product, designed for portable and recreational applications. This highly versatile, hydrogen fuelled power product is a derivative of Ballard's fourth generation air cooled fuel cell stack technology.

Also available is Ballard's FCgen®- micro (NPMC), which utilizes a non-precious metal catalyst (NPMC) at the cathode. This complimentary variant offers both cost savings and improved tolerance to common airborne contaminants such as SOx (sulfur oxides).

Alpha prototypes are ready for customer evaluation in applications where product size, cost and tolerance to airborne contaminants are key considerations.

Ballard Power Systems also offers application engineering support to ensure lifetime and performance is maximized through the system development process.

Please contact us at marketing@ballard.com for more information on product availability, engineering support services and pricing.

PRODUCT SPECIFICATIONS

Cathode Catalyst Layer Technology	Platinum-Based		Non-precious metal-based
	18 Cell	26 Cell	
Cell Count			
Performance*	Rated Power	← 30 W →	
	Rated current	← 2.4A →	
	DC voltage	← 12.5V† →	
Durability	Total air-air starts	>400 cycles	>60 cycles
	Operating time	>1600 h	>500 h
Fuel	Hydrogen	← >99.9 % →	
	Fuel supply pressure	0.35 to 0.80 barg	
	Fuel flow rate	0.35 slpm†	0.51 slpm
Oxidant/Coolant	Coolant	← Air →	
	Cooling flow rate, typical	~100 slpm†	~150 slpm
Operating Environment	Ambient temperature	← 5 to 40 °C →	
Physical Characteristics	Length (fuel inlet to outlet)	111 mm	111 mm
	Width (ox inlet to outlet)	13 mm	13 mm
	Height (endplate to endplate)	67 mm	90 mm
	Mass	120 g	146 g

* Performance specifications at lab ambient conditions (22°C, 30% RH, 0 mASL)

† At rated power