

BALLARD™

FCgen®-1020ACS



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Ballard Power Systems offers an aircooled, scalable proton exchange membrane fuel cell stack suitable for a wide range of light duty applications where durability, reliability and a simplified balance of plant are key requirements.

The FCgen-1020ACS fuel cell has been engineered to incorporate advanced open cathode technology and state of the art self-humidifying membrane electrode assemblies. These features completely eliminate the need for humidification systems and simplify system integration. The result is a simple, low cost design delivering reliable operation over a wide range of challenging conditions.

With no moving parts and high efficiency, the FCgen-1020ACS produces clean DC power with a low thermal and acoustic signature. The FCgen-1020ACS stack can be scaled to meet power requirements from 450W to 3kW and integrated into various end user applications. FCgen-1020ACS fuel cell product is available in a number of cell configuration options.

Please contact us for product availability and pricing.



Product Specifications

Type	PEM (Proton Exchange Membrane) fuel cell stack	
Typical Performance: ¹	Rated Power	41.1 W/cell
	Rated current	65.3 Amps
	DC voltage	660 mV/cell
Fuel	Hydrogen	99.95% or better
	Fuel supply pressure	0.16 to 0.56 bar g
	Fuel flow rate	~0.5 slpm/cell ²
Oxidant/Coolant	Coolant	Air
	Coolant flow rate	~50 slpm/cell ²
Temperatures	Operating temperature	-40°C to 52°C
	Start up temperature	≥-10°C to 52°C
Physical Characteristics: (56-cell stack)	Length x width x height	363 x 103 x 351 mm
	Mass	11.0 kg
Product Certification	CAN/CSA-C22.2 No. 62282-2 Fuel Cell Modules	

NOTE: Specifications are subject to change without notification.

¹ Performance specifications at lab ambient conditions (20°C, 30% relative humidity)

² At rated power.