



PRODUCT SPECIFICATIONS

Rated Power [kW] ¹	3.8	4.8	10.5	14.3	17.2	21.0
DC voltage (at 300A) ¹	12.8	16.0	35.0	48.0	57.4	70.2
Mass (with no coolant) [kg]	7.1	7.2	10.7	13	15	17
Stack core length [mm]	92	104	174	220	255	302
Stack core width [mm]	760	760	760	760	760	760
Stack core height [mm]	60	60	60	60	60	60

Type:	PEM (Proton Exchange Membrane) fuel cell stack	
Performance:	Maximum current	300A
	Shock and vibration	Automotive ²
Fuel:	Fuel composition (pre-humidification)	> 95% H ₂ ³
Oxidant:	Oxidant composition (pre-humidification)	Compressed ambient (filtered to remove particulates)
Stack Temperatures:	Storage temperature ⁴	-40 to 60° C (-40 to 140° F)
	Start-up temperature	> 2° C (> 36° F)
	Fluid inlet temperature (operating)	2 to 68° C (36 to 154° F) ¹
	External ambient temperature (operating)	-25 to 75° C (-13 to 167° F) ⁴

Additional information available upon request.

1. Values achieved at Ballard-specified conditions at the beginning of operational life.
2. Vibration 5g, meets USABC/SNL CRADA No. SC961447 USABC 10. Shock: 5g sections of IEC 60068-2-27 Ea and IEC 60068-2-29 Eb.
3. H₂ purity as per SAE specifications: J2719 with exceptions.
4. Allowable temperature following approved Ballard dry out procedure only, without dry out procedure +2-60°C.

FCvelocity-9SSL

Ballard Power Systems offers a proton exchange membrane (PEM) fuel cell stack based on our proven, fourth generation transportation stack technology.

Available now to customers with fuel cell stack integration capabilities, the FCvelocity-9SSL is designed to perform in rugged conditions and is scalable depending upon customer requirements. Stacks are available in power increments from approximately 4 to 21 kilowatts.

The FCvelocity-9SSL provides stable electrical power to a system over a wide range of operating and environmental conditions. A liquid-cooled, hydrogen-fueled product, the FCvelocity-9SSL uses Ballard's standard fuel cell components.

Suitable for motive applications, the FCvelocity-9SSL features fast, dynamic response, robust and reliable operation and durable packaging.

The FCvelocity-9SSL establishes a new standard of performance by optimizing reliability, power density and compatibility with customer system requirements.

Please contact us for product availability and pricing.