

BALLARD™

FCvelocity®-9SSL



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 21kilowatts.

The FCvelocity-9SSL provides stable electrical power to a system over a wide range of operating and environmental conditions. A liquid-cooled, hydrogenfueled 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.

Product Specifications

Rated Power [kW] ¹	3.8	4.8	10.6	14.4	17.3	21.2
DC voltage (at 300A) ¹	12.9	16.1	35.4	48.2	57.9	70.7
Mass (with no coolant) [kg]	6.2	6.8	10.2	12.1	14.3	16.6
Stack core length [mm]	92	104	174	220	255	302
Stack core width [mm]	760					
Stack core height [mm]	60					

Type	PEM (Proton Exchange Membrane) fuel cell stack	
Performance	Maximum current	300A
	Shock and vibration	Automotive ²
Fuel Oxidant: Oxidant	Fuel composition (pre-humidification)	SAE J2719
	Oxidant composition (prehumidification)	Compressed ambient (filtered to remove particulates)
Stack Temperatures	Storage temperature ³	-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

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 Allowable temperature following approved Ballard dry out procedure only, without dry out procedure +2 ~60° C.