



PEMION® FUEL CELL OFFERINGS:

Catalyst Coated Membranes / Membrane Electrode Assemblies

**2386 East Mall - Suite 111
Vancouver, BC Canada
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CCMs / MEAs

Catalyst Coated Membranes / Membrane Electrode Assemblies

Ionomr Innovations provides ion-exchange materials and core components for polymer electrolyte membrane fuel cells as a convenient assessment tool for evaluation and integration of its proton exchange membrane and ionomer technologies:

Catalyst coated membranes

in standard and custom sizes coated with standardized catalyst layers

Membrane electrode assemblies

in standard and custom sizes in multi-layer configurations comprising standardized catalyst layers and framing materials.

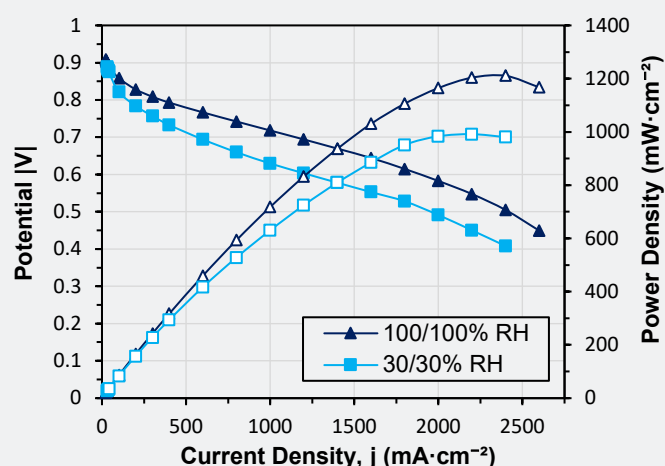
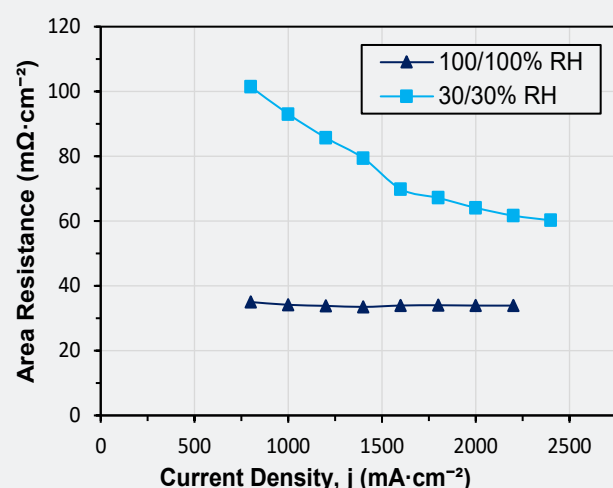
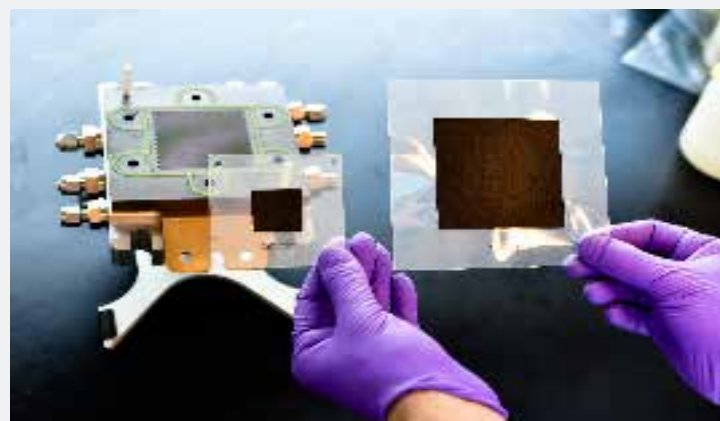


Figure 1. Performance and area resistance reference data for M5F02-P1F815, 150 kPa_g under H₂/Air at 80 °C

Hydrogen Fuel Cell CCMs

Active area:	5, 25, 50 cm ² Custom configurations up to 450 cm ²
Membrane:	PF1-HLF8-15-X
Ionomers:	SSC PFSA Pemion PP1-HNN8-00-X (coming soon)
Catalysts:	0.4 mg/cm ² total Pt/C 0.3 0.1 mg/cm ² Cathode Anode
H² Crossover:	< 2 mA/cm ² (ambient) < 6 mA/cm ² (150 kPag)

Hydrogen Fuel Cell MEAs

3-layer:	A Pemion® membrane coated with standard anode and cathode catalyst layers
5-layer:	The aforementioned CCM, with framing materials affixed to both sides

ORDERING INFORMATION

Part Number	Description
M3F-02-P18F-15-005-X	Pemion® MEA - Bare CCM, No Frames, 5 cm ² active area
M3F-02-P18F-15-025-X	Pemion® MEA - Bare CCM, No Frames, 25 cm ² active area
M3F-02-P18F-15-050-X	Pemion® MEA - Bare CCM, No Frames, 50 cm ² active area
M5F-02-P18F-15-005-X	Pemion® MEA - Framed CCM, 5 cm ² active area
M5F-02-P18F-15-025-X	Pemion® MEA - Framed CCM, 25 cm ² active area
M5F-02-P18F-15-050-X	Pemion® MEA - Framed CCM, 50 cm ² active area