

Supplementary Data

Configuration-1				
PWM Setting percentage	Actual Voltage	Measured voltage	KOH Concentration	HHO/L/Min
10%	1.4	1.39	0	0.00243
20%	2.8	2.77	0	0.00352
30%	4.2	4.19	0	0.00471
40%	5.6	5.63	0	0.00591
50%	7	7.04	0	0.007
60%	8.4	8.38	0	0.00807
70%	9.8	9.80	0	0.00899
80%	11.2	11.20	0	0.00984
90%	12.6	12.53	0	0.01053
100%	14	13.95	0	0.01121
10%	1.4	1.39	2	0.133
20%	2.8	2.77	2	0.208
30%	4.2	4.19	2	0.25926
40%	5.6	5.63	2	0.30296
50%	7	7.04	2	0.3329
60%	8.4	8.38	2	0.36312
70%	9.8	9.80	2	0.38254
80%	11.2	11.20	2	0.40224
90%	12.6	12.53	2	0.41708
100%	14	13.95	2	0.43515
10%	1.4	1.39	4	0.28327
20%	2.8	2.77	4	0.34936
30%	4.2	4.19	4	0.40062
40%	5.6	5.63	4	0.44432
50%	7	7.04	4	0.48344
60%	8.4	8.38	4	0.51635
70%	9.8	9.80	4	0.53902
80%	11.2	11.20	4	0.56599
90%	12.6	12.53	4	0.58569
100%	14	13.95	4	0.60053
10%	1.4	1.39	6	0.6383
20%	2.8	2.77	6	0.72705
30%	4.2	4.19	6	0.79315
40%	5.6	5.63	6	0.84279

50%	7	7.04	6	0.87138
60%	8.4	8.38	6	0.89998
70%	9.8	9.80	6	0.91644
80%	11.2	11.20	6	0.9391
90%	12.6	12.53	6	0.94369
100%	14	13.95	6	0.95556

Configuration-2

PWM Setting percentage	Actual Voltage	Measured voltage	KOH Concentration	HHO /L/min
10%	1.4	1.39	0	0.002
20%	2.8	2.77	0	0.00288
30%	4.2	4.19	0	0.00395
40%	5.6	5.63	0	0.00487
50%	7	7.04	0	0.00586
60%	8.4	8.38	0	0.00671
70%	9.8	9.8	0	0.00752
80%	11.2	11.2	0	0.00821
90%	12.6	12.53	0	0.0088
100%	14	13.95	0	0.00939
10%	1.4	1.39	2	0.21322
20%	2.8	2.77	2	0.26545
30%	4.2	4.19	2	0.46014
40%	5.6	5.63	2	0.70706
50%	7	7.04	2	0.98089
60%	8.4	8.38	2	1.35918
70%	9.8	9.8	2	1.77389
80%	11.2	11.2	2	2.2519
90%	12.6	12.53	2	2.77107
100%	14	13.95	2	3.41528
10%	1.4	1.39	4	0.31927
20%	2.8	2.77	4	0.362
30%	4.2	4.19	4	0.60101
40%	5.6	5.63	4	0.89225
50%	7	7.04	4	1.28954
60%	8.4	8.38	4	1.73906
70%	9.8	9.8	4	2.30413

80%	11.2	11.2	4	2.88661
90%	12.6	12.53	4	3.57514
100%	14	13.95	4	4.35073
10%	1.4	1.39	6	0.3715
20%	2.8	2.77	6	0.43323
30%	4.2	4.19	6	0.68015
40%	5.6	5.63	6	0.9983
50%	7	7.04	6	1.39559
60%	8.4	8.38	6	1.85461
70%	9.8	9.8	6	2.35637
80%	11.2	11.2	6	2.94834
90%	12.6	12.53	6	3.57514
100%	14	13.95	6	4.27159

Configuration-3

PWM Setting percentage	Actual Voltage	Measured voltage	KOH Concentration	HHO /L/min
10%	1.4	1.39	0	0.0024
20%	2.8	2.77	0	0.00349
30%	4.2	4.19	0	0.00471
40%	5.6	5.63	0	0.00595
50%	7	7.04	0	0.00707
60%	8.4	8.38	0	0.00818
70%	9.8	9.8	0	0.00913
80%	11.2	11.2	0	0.00994
90%	12.6	12.53	0	0.01067
100%	14	13.95	0	0.01129
10%	1.4	1.39	2	0.07217
20%	2.8	2.77	2	0.13827
30%	4.2	4.19	2	0.19505
40%	5.6	5.63	2	0.32301
50%	7	7.04	2	0.54927
60%	8.4	8.38	2	0.82808
70%	9.8	9.8	2	1.23484
80%	11.2	11.2	2	1.63144
90%	12.6	12.53	2	2.0043
100%	14	13.95	2	2.33988
10%	1.4	1.39	4	0.04421
20%	2.8	2.77	4	0.11031
30%	4.2	4.19	4	0.22386

40%	5.6	5.63	4	0.38911
50%	7	7.04	4	0.62469
60%	8.4	8.38	4	0.96536
70%	9.8	9.8	4	1.37636
80%	11.2	11.2	4	1.86787
90%	12.6	12.53	4	2.29751
100%	14	13.95	4	2.62801
10%	1.4	1.39	6	0.17641
20%	2.8	2.77	6	0.3086
30%	4.2	4.19	6	0.47385
40%	5.6	5.63	6	0.66283
50%	7	7.04	6	0.90858
60%	8.4	8.38	6	1.19162
70%	9.8	9.8	6	1.48483
80%	11.2	11.2	6	1.84838
90%	12.6	12.53	6	2.24582
100%	14	13.95	6	2.67546
