

Supplementary Materials

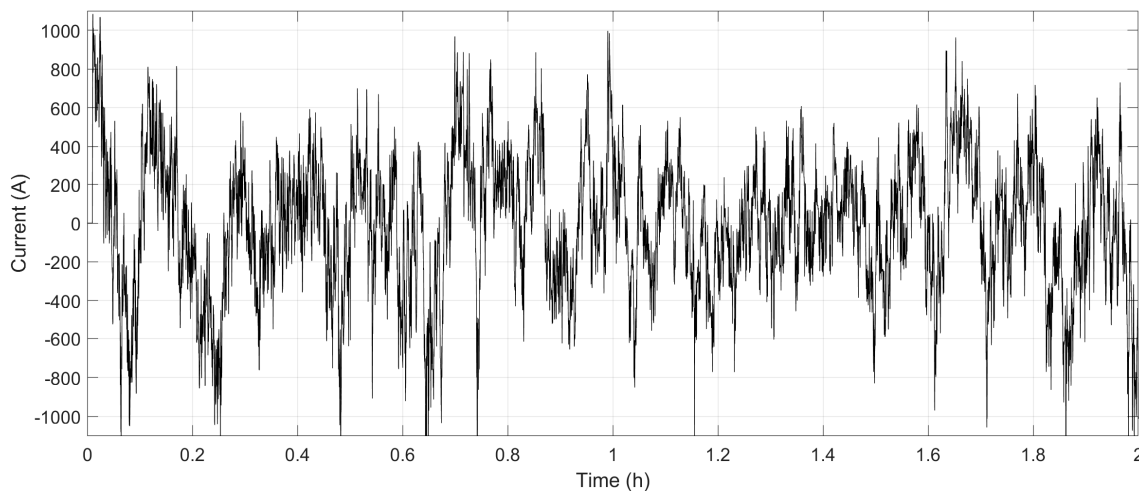


Figure S1. Frequency regulation schedule from the 1MW system.

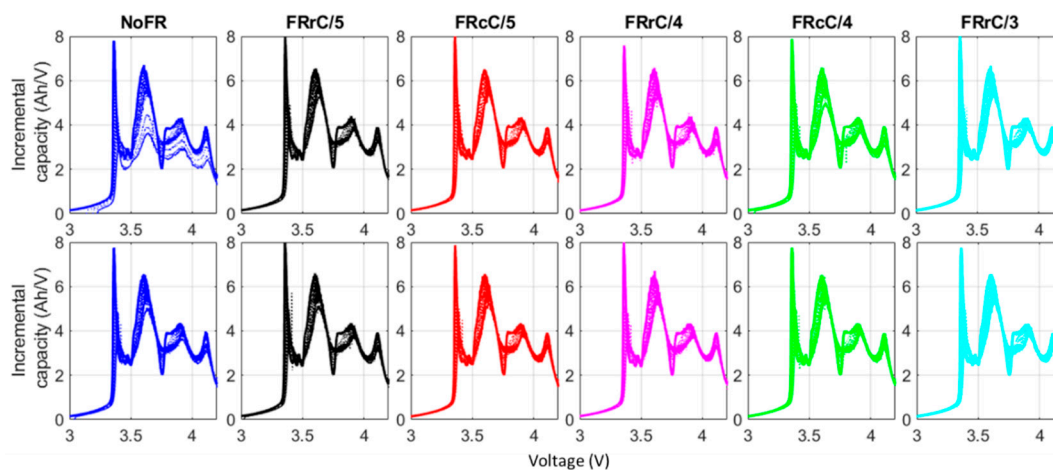
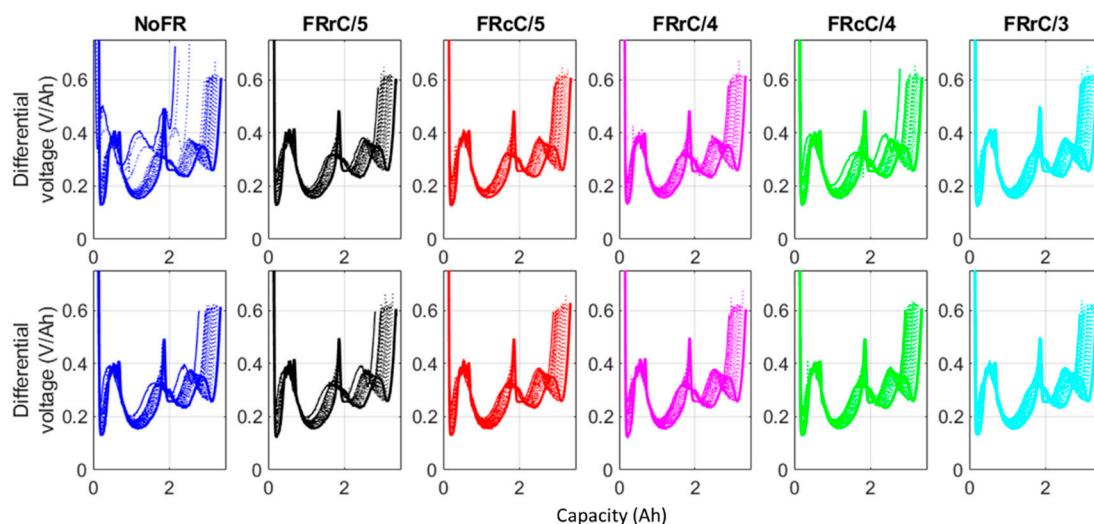
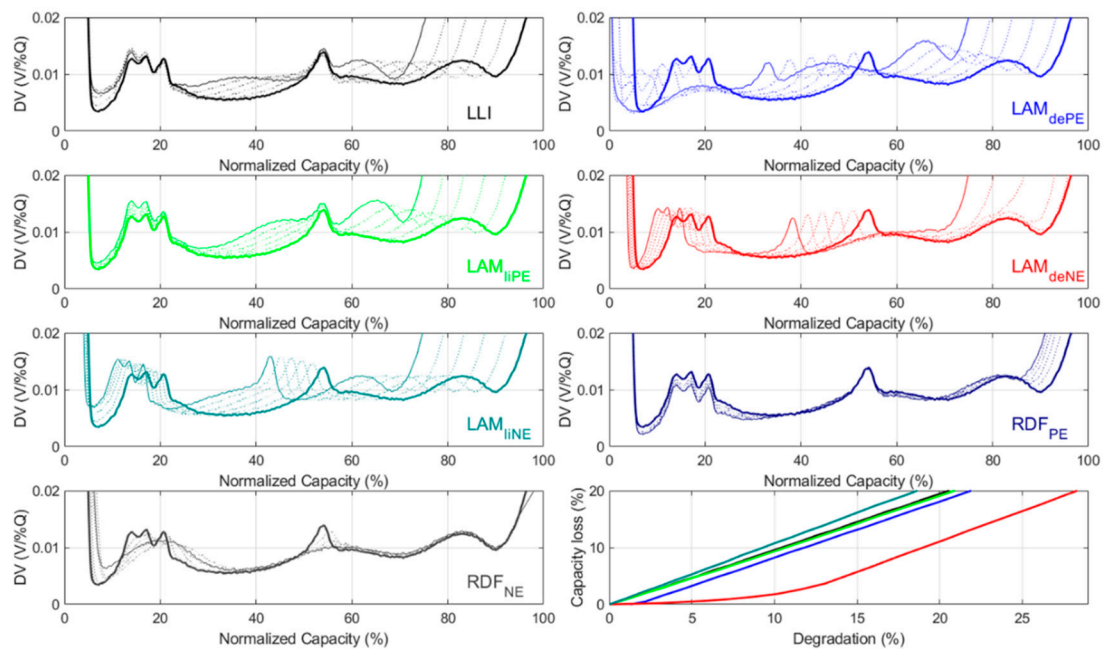


Figure S2. IC signatures for all the cells throughout the experiment.



**Figure S3.** Differential voltage (DV) signatures for all the cells throughout the experiment.



**Figure S4.** DV degradation map.