```
import pybamm
      experiment = pybamm.Experiment(["Discharge at 1C until 2.5 V (10 second period)",
[2]:
                                             "Charge at 1C until 4.2 V (10 second period)"]*3)
      model = pybamm.lithium_ion.DFN()
      chemistry = pybamm.parameter_sets.Chen2020
      parameter_values = pybamm.ParameterValues(chemistry=chemistry)
      sim = pybamm.Simulation(model, parameter_values=parameter_values, experiment=experiment)
      sim.solve()
      <pybamm.solvers.solution.Solution at 0x13711ce10>
[3]:
      pybamm.dynamic_plot([sim])
      Negative particle surface concentration [mol.m-3] Electrolyte concentration [mol.m-3]
                                                                                         Positive particle surface concentration [mol.m-3]
                                                                                                                                                    Current [A]
       30000
                                                                                         60000
                                                 2250
       25000
                                                 2000
                                                                                         50000
                                                                                                                                      2
                                                 1750
       20000
                                                 1500
                                                                                         40000
       15000
                                                 1250
                                                                                                                                      -2
                                                                                         30000
       10000
                                                 1000
                                                  750
        5000
                                                                                                                                      -4
                                                                                         20000
                                                  500
                                                                                                                     150
                                                                            120
                                                                                                        120
                        30
                                                                 60
                                                                                                                                                   1.5
                                    60
                                                                                                                                       0.0
                                                                                                                                                               3.0
                                                                                                                                                      Time [h]
                                                                    x [μm]
                                                                                                             x [μm]
                          x [μm]
                                                                                                  Positive electrode potential [V]
                                                                                                                                                Terminal voltage [V]
             <sub>le</sub> Negative electrode potential [V]
                                                            Electrolyte potential [V]
                                                  0.0
                                                                                           4.25
                                                                                                                                    4.25
         1.5
                                                                                           4.00
                                                                                                                                    4.00
         1.0
                                                 -0.2
                                                                                           3.75
                                                                                                                                    3.75
         0.5
                                                                                           3.50
                                                                                                                                    3.50
         0.0
                                                                                           3.25
                                                                                                                                    3.25
                                                 -0.6
        -0.5
                                                                                           3.00
                                                                                                                                    3.00
        -1.0
                                                 -0.8
                                                                                          2.75
                                                                                                                                    2.75
        -1.5
                                                 -1.0
                                                                                                                                    2.50
                                                                                           2.50
                        30
                                                                            120
                                                                                                        120
                                                                                                                     150
                                                                                                                                                   1.5
                                                                                                                                                               3.0
                                    60
                                                                 60
                                                                                                                                       0.0
                                                                                                                                                      Time [h]
                                                                    x [μm]
                           x [μm]
                                                                                                             x [μm]
```