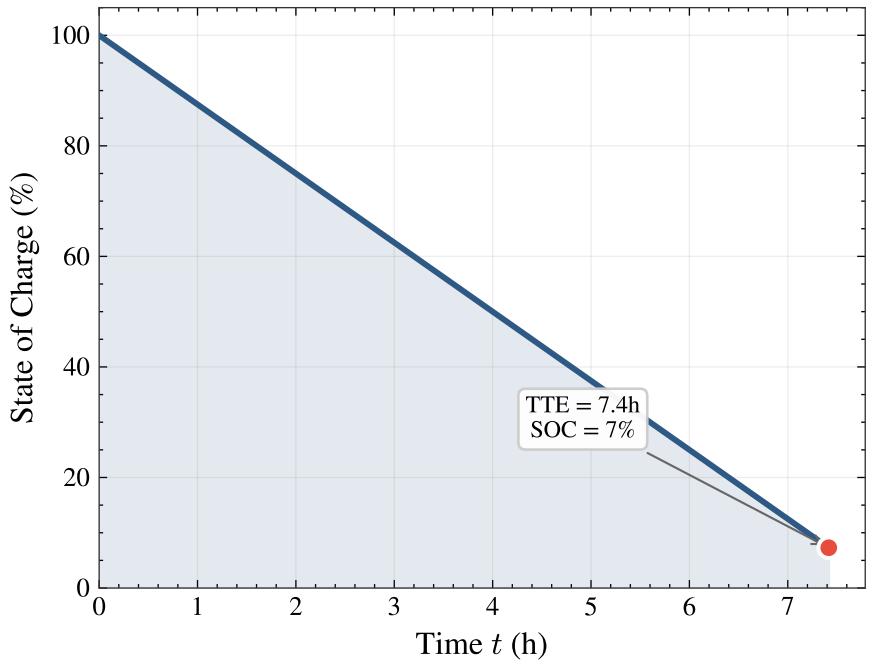


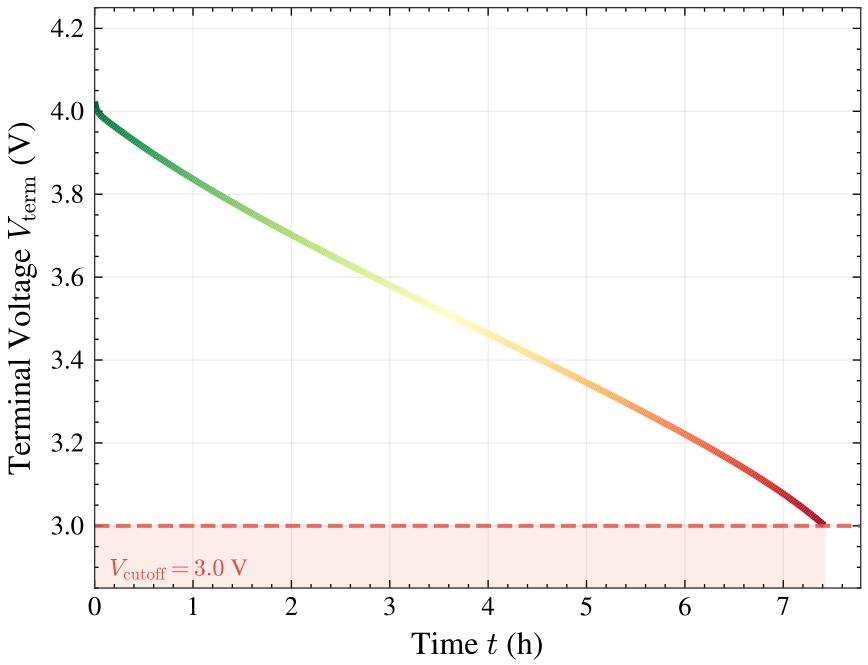
Model I: DP-ECM Core Validation

(4000 mAh Smartphone Battery, $I = 500 \text{ mA}$)

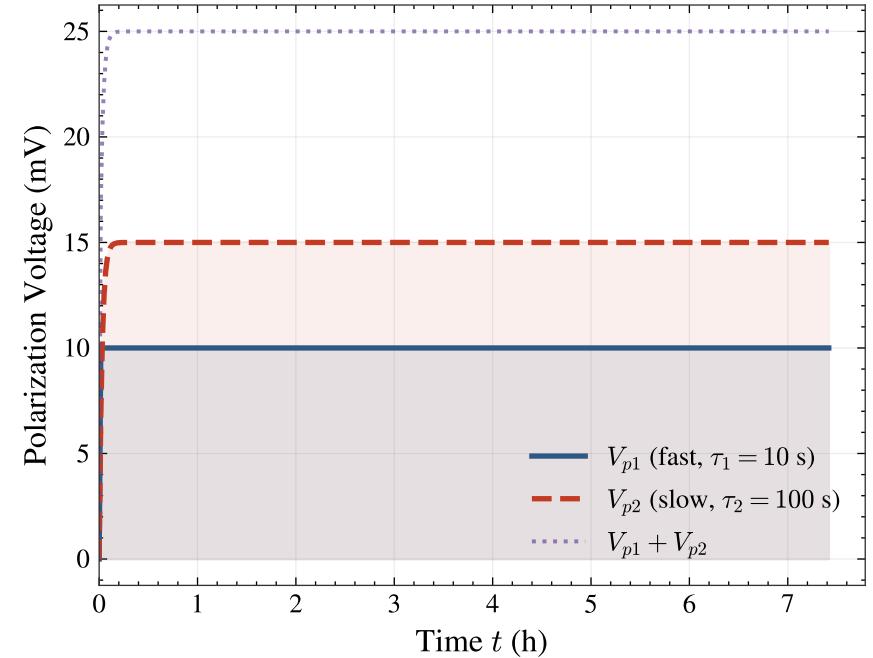
(a) SOC Trajectory



(b) Voltage Profile



(c) Dual Polarization Dynamics



(d) OCV-SOC Characteristic

