

GP battery EKF.py 2021-12-03T08-20-37 1.00 25 0 SOC_norm ib 0.95 SOC norm ekf i batt -25actual voc 500 1000 1500 500 1000 2000 2500 16 voc dyn meas 1.00 voc filtered state SOC norm 14 post soc norm filtered 0.95 x soc norm filtered v batt 12 500 2000 1500 1000 1500 1000 2000 2500 0.01 0.010 e soc ekf e voc 0.00 0.005 e soc norm to User K (belief state / belief meas) 0.000 -0.01500 1000 1500 2000 2500 500 1000 1500 2000 2500

GP battery EKF.py 2021-12-03T08-20-37 14.5 1.00 -0.0 0.98 hx ekf 14.0 ± 0.1 ····· x ekf ····· z ekf ····· y ekf 0.96 -0.2 1_e-5 1000 1000 2000 2000 1000 2000 1.05 2 ····· Fx ekf 40 1.00 20 H ekf P ekf 0.95 0 0 1e−7 1000 2000 1000 2000 1000 2000 0 0,010 + Bu ekf 3.8 0.005 K ekf 3.6 0.000 0 1000 2000 0 1000 2000

GP_battery_EKF.py 2021-12-03T08-20-37 1.00 14.3 14.2 0.99 14.1 0.98 14.0 0.97 13.9 0.96 الحافيرة والما 13.8 voc_dyn 0.95 13.7 SOC vbatt solved soc solved 0 500 1000 1500 2000 2500 0 500 1000 1500 2000 2500

GP_battery_EKF.py 2021-12-03T08-20-37 0.0100 e voc 0.0075 e_soc_norm to User e soc ekf 0.0050 e_soc_norm to User 0.0025 0.0000 -0.0025-0.0050-0.0075-0.0100500 1000 1500 2000 2500

GP_battery_EKF.py 2021-12-03T08-20-37

