Battery Capacity Tests S1 – S4: Samsung INR18650-29E, 7s9p S5, S6: Samsung INR18650-29E, 7s12p Battery charged to BMS charge cutoff, 4.2v for highest cell 2014 – 2017: Discharged into resistive load at 12-18* Amps until BMS cutoff, 2.75v for lowest cell 2018 onwards: Discharged into resistive load at 6-9* Amps until BMS cutoff, 2.75v for lowest cell 2020 onwards: S5 & S6 received new Bluetooth BMS.

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Battery	Date of Test	Ah	% reduction from new	Wh	% reduction from new
S1	March 2014	25.87	ITOITTIEW	642.0	ITOITTIEW
	January 2015	23.72	8.31%	582.6	9.25%
	January 2016	23.36	9.71%	570.4	11.15%
	January 2017	23.86 24.22	7.77% 6.38%	586.1	8.71%
	January 2018 March 2019	24.22 23.74	6.38% 8.24%	607.8 590.1	5.33% 8.08%
	January 2020	23.82	7.94%	589.3	8.21%
	January 2021	23.55	8.96%	585.2	8.85%
	January 2022	23.19	10.37%	575.1	10.42%
	January 2023	22.94	11.34%	560.4	12.71%
	January 2024 January 2025	23.13 22.78	10.61% 11.96%	569.3 560.6	11.32% 12.68%
S2	March 2014	26.16	1110070	650.0	12:0070
	January 2015	24.02	8.15%	589.4	9.32%
	January 2016	23.77	9.11%	580.2	10.74%
	January 2017 January 2018	24.29 24.11	7.13% 7.81%	596.2 601.8	8.28% 7.42%
	March 2019	24.11	7.86%	599.8	7.72%
	January 2020	23.70	9.40%	587.7	9.58%
	January 2021	23.56	9.93%	585.3	9.95%
	January 2022	23.41	10.48%	577.5	11.15%
	January 2023 January 2024	23.55 23.84	9.96% 8.85%	562.3 578.0	13.49% 11.08%
	January 2024	22.92	12.36%	553.2	14.89%
S3	March 2014	25.88	.2.3076	642.0	
	January 2015	23.67	8.54%	582.0	9.35%
	January 2016	22.98	11.21%	559.8	12.80%
	January 2017 January 2018	23.71 23.78	8.41% 8.12%	579.7 591.6	9.70% 7.85%
	March 2019	23.76	8.26%	590.5	8.02%
	January 2020	23.60	8.82%	583.3	9.14%
	January 2021	23.38	9.68%	581.5	9.42%
	January 2022	23.21	11.28%	575.2	11.51%
	January 2023 January 2024	23.04 23.14	11.91% 11.52%	566.1 570.9	12.91% 12.17%
	January 2025	23.04	11.91%	570.9	12.17%
S4	March 2014	26.03		646.2	
	January 2015	23.53	9.60%	575.1	11.00%
	January 2016 January 2017	23.55 24.74	9.52% 4.97%	571.0 605.5	11.64% 6.30%
	January 2017	23.83	4.97 % 8.46%	594.3	8.03%
	March 2019	24.01	7.78%	598.5	7.38%
	January 2020	23.67	9.09%	586.9	9.18%
	January 2021	23.49	9.78%	581.8	9.97%
	January 2022 January 2023	23.05 23.69	11.87% 9.44%	567.0 579.9	12.77% 10.78%
	January 2023	23.09	11.84%	567.2	12.74%
	January 2025	23.09	11.71%	569.1	12.45%
S5	March 2014	34.02		849.4	
	January 2015	32.29 32.30	5.09% 5.07%	796.8	6.19% 6.33%
	January 2016 January 2017	32.30 32.15	5.07% 5.51%	795.6 789.0	6.33% 7.11%
	January 2018	33.04	2.90%	827.7	2.55%
	March 2019	32.14	5.54%	803.9	5.36%
	January 2020	32.59	4.21%	813.3	4.25%
	January 2021 January 2022	32.40	4.77%	804.3	5.31%
	January 2022 January 2023	31.43 31.01	7.64% 8.86%	774.1 762.2	8.87% 10.27%
	January 2024	31.28	8.07%	768.9	9.48%
	January 2025	31.13	8.50%	758.3	10.73%
S6	March 2014	33.88	4.050/	844.8	4.070/
	January 2015 January 2016	32.40 32.18	4.35% 5.02%	802.8 792.3	4.97% 6.21%
	January 2017	32.16	5.02% 1.48%	792.3 815.9	3.42%
	January 2018	33.08	2.34%	831.1	1.62%
	March 2019	32.14	5.13%	804.0	4.83%
	January 2020	32.62	3.72%	813.9	3.66%
	January 2021 January 2022	32.45 31.23	4.21% 7.82%	809.2 771.2	4.21% 8.71%
	January 2022 January 2023	31.23	7.82% 8.50%	766.0	9.33%
	January 2024	31.22	7.85%	769.80	8.88%
	January 2025	30.74	9.27%	756.40	10.46%