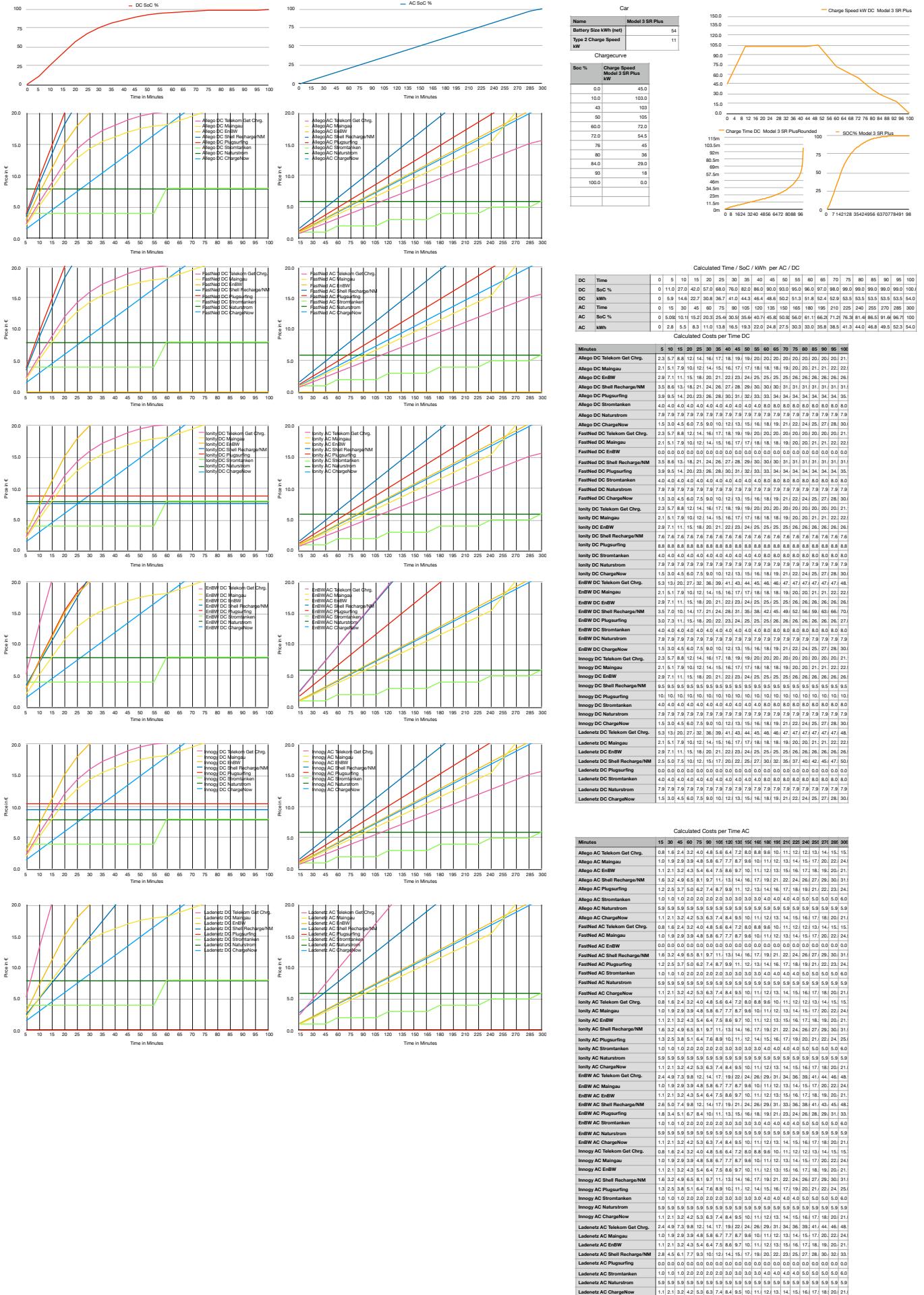
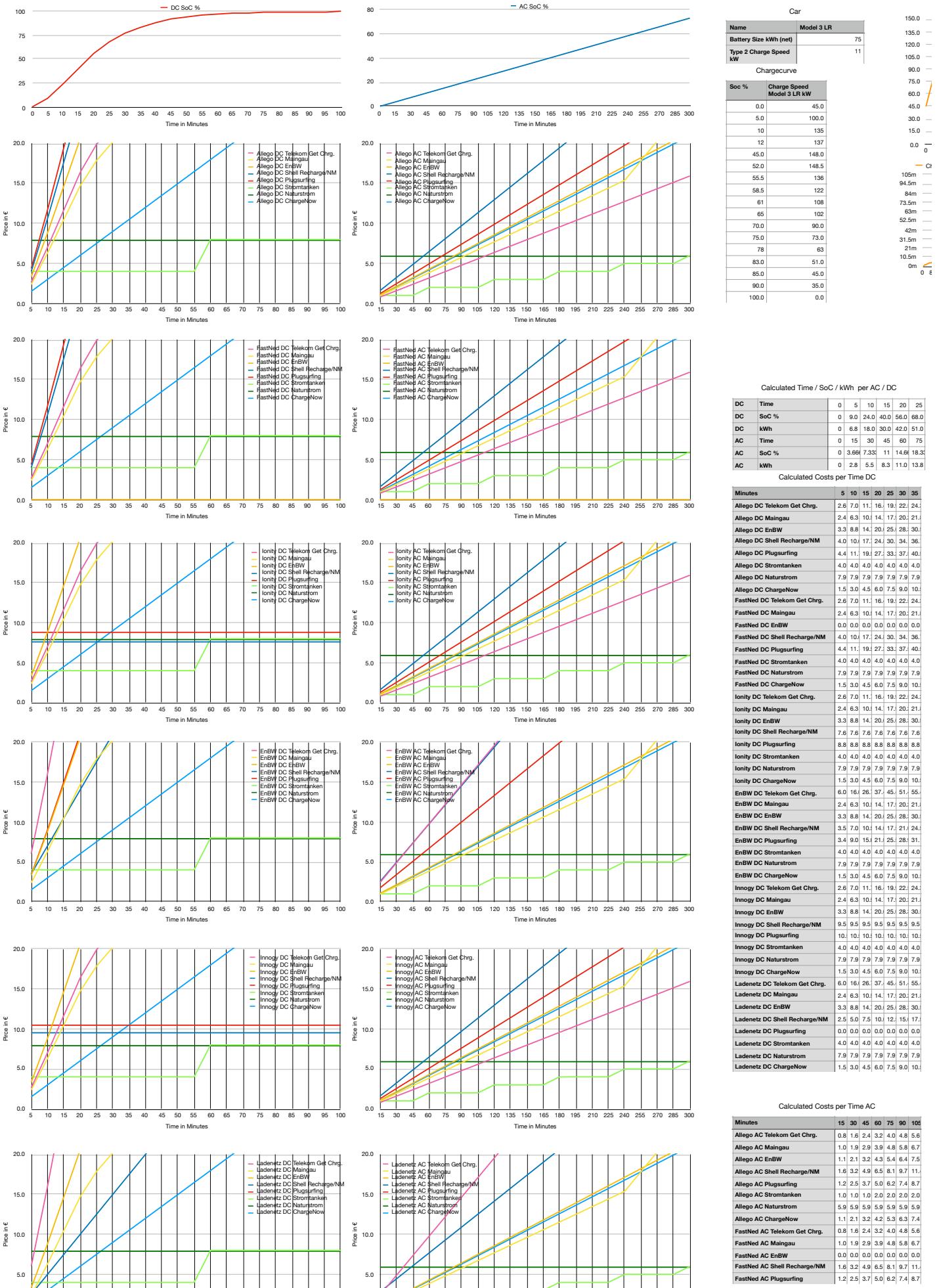


Betreiber	Ladekarte	€/kWh	€/Chrg	€/Min	every x- Min	€ Penalty /Min	Penalty after Min
Allego DC	Telekom Get Chrg.	0.39					
Allego DC	Maingau	0.35			0.10	60	
Allego DC	EnBW	0.49					
Allego DC	Shell Recharge/NM	0.59					
Allego DC	Plugsurfing	0.65					
Allego DC	Stromtanken			4	60		
Allego DC	Naturstrom		7.90				
Allego DC	ChargeNow			0.30			
FastNed DC	Telekom Get Chrg.	0.39					
FastNed DC	Maingau	0.35			0.10	60	
FastNed DC	EnBW						
FastNed DC	Shell Recharge/NM	0.59					
FastNed DC	Plugsurfing	0.65					
FastNed DC	Stromtanken			4	60		
FastNed DC	Naturstrom		7.90				
FastNed DC	ChargeNow			0.30			
Ionity DC	Telekom Get Chrg.	0.39					
Ionity DC	Maingau	0.35			0.10	60	
Ionity DC	EnBW	0.49					
Ionity DC	Shell Recharge/NM		7.60				
Ionity DC	Plugsurfing		8.8				
Ionity DC	Stromtanken			4	60		
Ionity DC	Naturstrom		7.90				
Ionity DC	ChargeNow			0.30			
EnBW DC	Telekom Get Chrg.	0.89					
EnBW DC	Maingau	0.35			0.10	60	
EnBW DC	EnBW	0.49					
EnBW DC	Shell Recharge/NM		0.70				
EnBW DC	Plugsurfing		0.50				
EnBW DC	Stromtanken			4	60		
EnBW DC	Naturstrom		7.90				
EnBW DC	ChargeNow			0.30			
Innogy DC	Telekom Get Chrg.	0.39					
Innogy DC	Maingau	0.35			0.10	60	
Innogy DC	EnBW	0.49					
Innogy DC	Shell Recharge/NM		9.52				
Innogy DC	Plugsurfing		10.47				
Innogy DC	Stromtanken			4	60		
Innogy DC	Naturstrom		7.90				
Innogy DC	ChargeNow			0.30			
Ladenetz DC	Telekom Get Chrg.	0.89					
Ladenetz DC	Maingau	0.35			0.10	60	
Ladenetz DC	EnBW	0.49					
Ladenetz DC	Shell Recharge/NM		0.50				
Ladenetz DC	Plugsurfing						
Ladenetz DC	Stromtanken			4	60		
Ladenetz DC	Naturstrom		7.90				
Ladenetz DC	ChargeNow			0.30			
Allego AC	Telekom Get Chrg.	0.29					
Allego AC	Maingau	0.35			0.10	240	
Allego AC	EnBW	0.39					
Allego AC	Shell Recharge/NM	0.59					
Allego AC	Plugsurfing	0.45					
Allego AC	Stromtanken			1	60		
Allego AC	Naturstrom		5.9				
Allego AC	ChargeNow			0.07			
FastNed AC	Telekom Get Chrg.	0.29					
FastNed AC	Maingau	0.35			0.10	240	
FastNed AC	EnBW						
FastNed AC	Shell Recharge/NM	0.59					
FastNed AC	Plugsurfing	0.45					
FastNed AC	Stromtanken			1	60		
FastNed AC	Naturstrom		5.9				
FastNed AC	ChargeNow			0.07			
Ionity AC	Telekom Get Chrg.	0.29					
Ionity AC	Maingau	0.35			0.10	240	
Ionity AC	EnBW	0.39					
Ionity AC	Shell Recharge/NM	0.59					
Ionity AC	Plugsurfing	0.39		0.013	1		
Ionity AC	Stromtanken			1	60		
Ionity AC	Naturstrom		5.9				
Ionity AC	ChargeNow			0.07			
EnBW AC	Telekom Get Chrg.	0.89					
EnBW AC	Maingau	0.35			0.10	240	
EnBW AC	EnBW	0.39					
EnBW AC	Shell Recharge/NM		0.16	1			
EnBW AC	Plugsurfing		0.11	1			
EnBW AC	Stromtanken			1	60		
EnBW AC	Naturstrom		5.9				
EnBW AC	ChargeNow			0.07			
Innogy AC	Telekom Get Chrg.	0.29					
Innogy AC	Maingau	0.35			0.10	240	
Innogy AC	EnBW	0.39					
Innogy AC	Shell Recharge/NM	0.59					
Innogy AC	Plugsurfing	0.39		0.013	1		
Innogy AC	Stromtanken			1	60		
Innogy AC	Naturstrom		5.9				
Innogy AC	ChargeNow			0.07			
Ladenetz AC	Telekom Get Chrg.	0.89					
Ladenetz AC	Maingau	0.35			0.10	240	
Ladenetz AC	EnBW	0.39					
Ladenetz AC	Shell Recharge/NM	0.48	1.19	0.02	1		
Ladenetz AC	Plugsurfing			1	60		
Ladenetz AC	Stromtanken			1	60		
Ladenetz AC	Naturstrom		5.9				
Ladenetz AC	ChargeNow			0.07			

Betreiber	URL
Telekom	<a href="https://get-charge.com/tarif/">https://get-charge.com/tarif/</a>
Maingau	<a href="https://www.maingau-energie.de/e-mobilitat/autostrom-tarif?etcc_cmp=MG%20">https://www.maingau-energie.de/e-mobilitat/autostrom-tarif?etcc_cmp=MG%20</a>
EnBW	<a href="https://www.enbw.com/elektromobilitaet/products/mobileplus-app/finden-und-ho">https://www.enbw.com/elektromobilitaet/products/mobileplus-app/finden-und-ho</a>
Shell Recharge/NM	
Plugsurfing	
Stromtanken	<a href="http://stromticket.de/zugang-uber-stromticket/">http://stromticket.de/zugang-uber-stromticket/</a>
Naturstrom	<a href="https://www.naturstrom.de/privatkunden/strom/elektromobilitaet/NATURSTROM">https://www.naturstrom.de/privatkunden/strom/elektromobilitaet/NATURSTROM</a>
ChargeNow	<a href="https://chargenow.com/web/chargenow-de/tariffs">https://chargenow.com/web/chargenow-de/tariffs</a>



Calculated Charge Speed / Time				Calculated SoC / Time	
SoC %	Charge Power kW	Charge Time DC Model 3 SR Plus	Charge Time DC Model 3 SR Plus Rounded	Time in Min	SoC % DC Model 3 SR Plus Rounded
0	45.0	0m 0s	0m	0	0
1	50.8	0m 41s	1m	1	2
2	56.6	1m 17s	1m	2	4
3	62.4	1m 49s	2m	3	6
4	68.2	2m 19s	2m	4	9
5	74.0	2m 47s	3m	5	12
6	79.8	3m 12s	3m	6	15
7	85.6	3m 38s	4m	7	18
8	91.4	3m 57s	4m	8	21
9	97.2	4m 16s	4m	9	24
10	103.0	4m 37s	5m	10	28
11	103.0	4m 59s	5m	11	31
12	103.0	5m 15s	5m	12	34
13	103.0	5m 34s	6m	13	37
14	103.0	5m 53s	6m	14	40
15	103.0	6m 12s	6m	15	43
16	103.0	6m 31s	7m	16	47
17	103.0	6m 49s	7m	17	50
18	103.0	7m 6s	7m	18	53
19	103.0	7m 27s	7m	19	56
20	103.0	7m 46s	8m	20	58
21	103.0	8m 5s	8m	21	61
22	103.0	8m 24s	8m	22	63
23	103.0	8m 43s	9m	23	66
24	103.0	9m 2s	9m	24	67
25	103.0	9m 20s	9m	25	69
26	103.0	9m 39s	10m	26	71
27	103.0	9m 58s	10m	27	72
28	103.0	10m 17s	10m	28	74
29	103.0	10m 36s	11m	29	76
30	103.0	10m 55s	11m	30	77
31	103.0	11m 14s	11m	31	78
32	103.0	11m 33s	12m	32	79
33	103.0	11m 51s	12m	33	81
34	103.0	12m 10s	12m	34	82
35	103.0	12m 29s	12m	35	83
36	103.0	12m 48s	13m	36	84
37	103.0	13m 7s	13m	37	85
38	103.0	13m 26s	13m	38	86
39	103.0	13m 45s	14m	39	86
40	103.0	14m 4s	14m	40	87
41	103.0	14m 22s	14m	41	88
42	103.0	14m 41s	15m	42	89
43	103.0	15m 0s	15m	43	89
44	103.2857142	15m 19s	15m	44	90
45	103.5714285	15m 38s	16m	45	91
46	103.8571428	15m 57s	16m	46	91
47	104.1428571	16m 15s	16m	47	92
48	104.4285714	16m 34s	17m	48	93
49	104.7142857	16m 53s	17m	49	93
50	105	17m 11s	17m	50	94
51	101.7	17m 30s	17m	51	94
52	98.4	17m 49s	18m	52	95
53	95.1	18m 9s	18m	53	95
54	91.8	18m 30s	19m	54	96
55	88.5	18m 52s	19m	55	96
56	85.2	19m 14s	19m	56	96
57	81.9	19m 37s	20m	57	97
58	78.6	20m 2s	20m	58	97
59	75.3	20m 27s	20m	59	97
60	72.0	20m 53s	21m	60	97
61	70.5	21m 21s	21m	61	98
62	69.1	21m 48s	22m	62	98
63	67.6	22m 17s	22m	63	98
64	66.2	22m 46s	23m	64	98
65	64.7	23m 16s	23m	65	98
66	63.3	23m 46s	24m	66	99
67	61.8	24m 17s	24m	67	99
68	60.3	24m 49s	25m	68	99
69	58.9	25m 22s	25m	69	99
70	57.4	25m 55s	26m	70	99
71	56.0	26m 29s	26m	71	99
72	54.5	27m 4s	27m	72	99
73	52.1	27m 41s	28m	73	99
74	49.8	28m 19s	28m	74	100
75	47.4	28m 59s	29m	75	100
76	45	29m 41s	30m	76	100
77	42.75	30m 26s	30m	77	100
78	40.5	31m 12s	31m	78	100
79	38.25	32m 2s	32m	79	100
80	36	32m 54s	33m	80	100
81	34.3	33m 49s	34m	81	100
82	32.5	34m 48s	35m	82	100
83	30.8	35m 49s	36m	83	100
84	29.0	36m 54s	37m	84	100
85	27.8	38m 3s	38m	85	100
86	26.6	38m 14s	39m	86	100
87	25.3	40m 29s	40m	87	100
88	24.1	41m 48s	42m	88	100
89	22.9	43m 10s	43m	89	100
90	21	44m 38s	45m	90	100
91	20.4	45m 10s	46m	91	100
92	19.2	47m 48s	48m	92	100
93	18	48m 55s	49m	93	100
94	15.4	51m 29s	51m	94	100
95	12.9	53m 45s	54m	95	100
96	10.3	55m 34s	57m	96	100
97	7.7	60m 10s	60m	97	100
98	5.1	65m 13s	65m	98	100
99	2.6	73m 37s	74m	99	100
100	0.0	98m 49s	99m	100	100





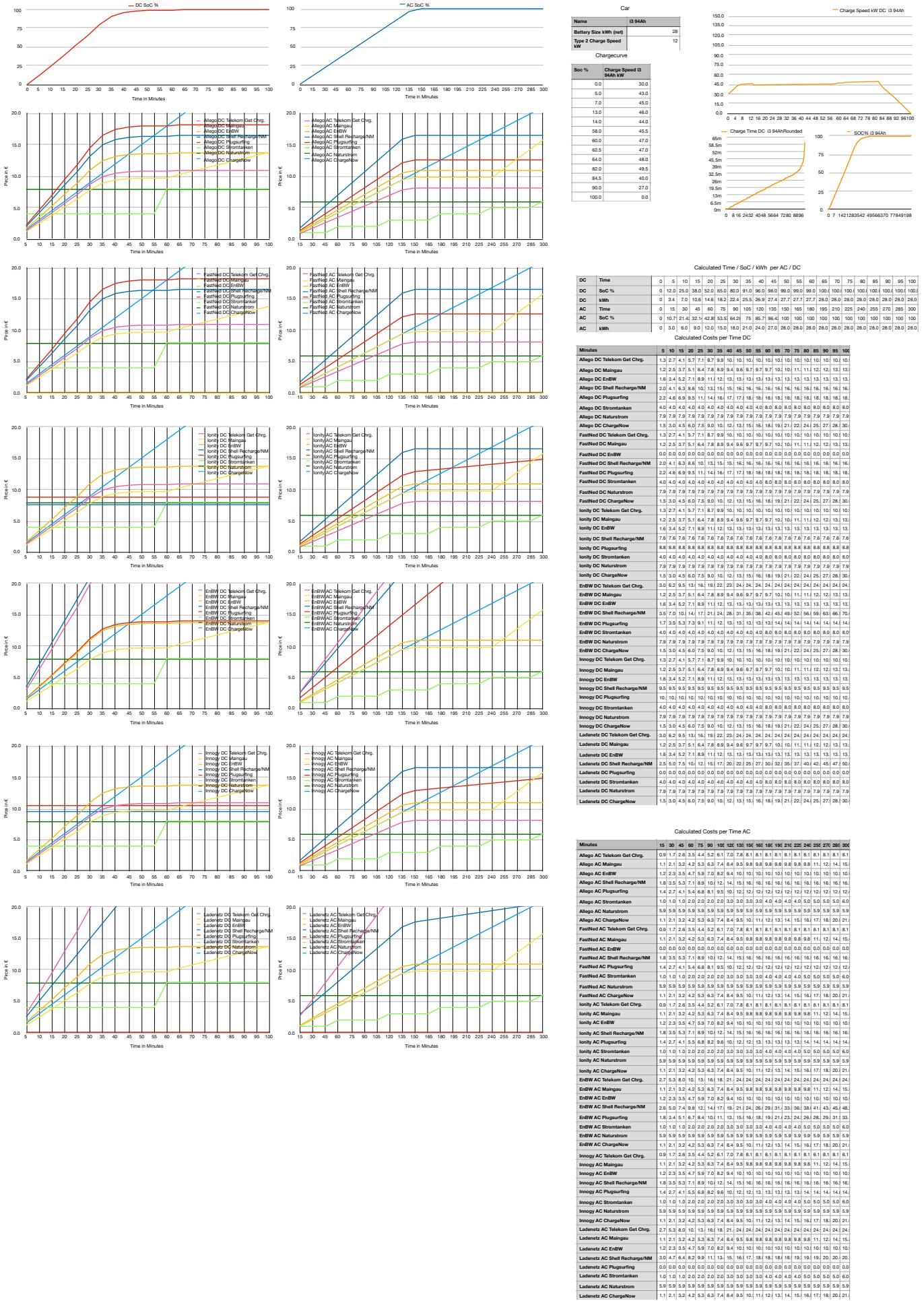
Minutes	15	30	45	60	75	90	105
FastNed AC Stromtanken	1.0	1.0	1.0	2.0	2.0	2.0	2.0
FastNed AC Naturstrom	5.9	5.9	5.9	5.9	5.9	5.9	5.9
FastNed AC ChargeNow	1.1	2.1	3.2	4.2	5.3	6.3	7.4
Ionity AC Telekom Get Chrg.	0.8	1.6	2.4	3.2	4.0	4.8	5.6
Ionity AC Maingau	1.0	1.9	2.9	3.9	4.8	5.8	6.7
Ionity AC EnBW	1.1	2.1	3.2	4.3	5.4	6.4	7.5
Ionity AC Shell Recharge/NM	1.6	3.2	4.9	6.5	8.1	9.7	11.
Ionity AC Plugsurfing	1.3	2.5	3.8	5.1	6.4	7.6	8.9
Ionity AC Stromtanken	1.0	1.0	1.0	2.0	2.0	2.0	2.0
Ionity AC Naturstrom	5.9	5.9	5.9	5.9	5.9	5.9	5.9
Ionity AC ChargeNow	1.1	2.1	3.2	4.2	5.3	6.3	7.4
EnBW AC Telekom Get Chrg.	2.4	4.9	7.3	9.8	12.	14.	17.
EnBW AC Maingau	1.0	1.9	2.9	3.9	4.8	5.8	6.7
EnBW AC EnBW	1.1	2.1	3.2	4.3	5.4	6.4	7.5
EnBW AC Shell Recharge/NM	2.6	5.0	7.4	9.8	12.	14.	17.
EnBW AC Plugsurfing	1.8	3.4	5.1	6.7	8.4	10.	11.
EnBW AC Stromtanken	1.0	1.0	1.0	2.0	2.0	2.0	2.0
EnBW AC Naturstrom	5.9	5.9	5.9	5.9	5.9	5.9	5.9
EnBW AC ChargeNow	1.1	2.1	3.2	4.2	5.3	6.3	7.4
Innogy AC Telekom Get Chrg.	0.8	1.6	2.4	3.2	4.0	4.8	5.6
Innogy AC Maingau	1.0	1.9	2.9	3.9	4.8	5.8	6.7
Innogy AC EnBW	1.1	2.1	3.2	4.3	5.4	6.4	7.5
Innogy AC Shell Recharge/NM	1.6	3.2	4.9	6.5	8.1	9.7	11.
Innogy AC Plugsurfing	1.3	2.5	3.8	5.1	6.4	7.6	8.9
Innogy AC Stromtanken	1.0	1.0	1.0	2.0	2.0	2.0	2.0
Innogy AC Naturstrom	5.9	5.9	5.9	5.9	5.9	5.9	5.9
Innogy AC ChargeNow	1.1	2.1	3.2	4.2	5.3	6.3	7.4
Ladenetz AC Telekom Get Chrg.	2.4	4.9	7.3	9.8	12.	14.	17.
Ladenetz AC Maingau	1.0	1.9	2.9	3.9	4.8	5.8	6.7
Ladenetz AC EnBW	1.1	2.1	3.2	4.3	5.4	6.4	7.5
Ladenetz AC Shell Recharge/NM	2.8	4.5	6.1	7.7	9.3	10.	12.
Ladenetz AC Plugsurfing	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ladenetz AC Stromtanken	1.0	1.0	1.0	2.0	2.0	2.0	2.0
Ladenetz AC Naturstrom	5.9	5.9	5.9	5.9	5.9	5.9	5.9
Ladenetz AC ChargeNow	1.1	2.1	3.2	4.2	5.3	6.3	7.4



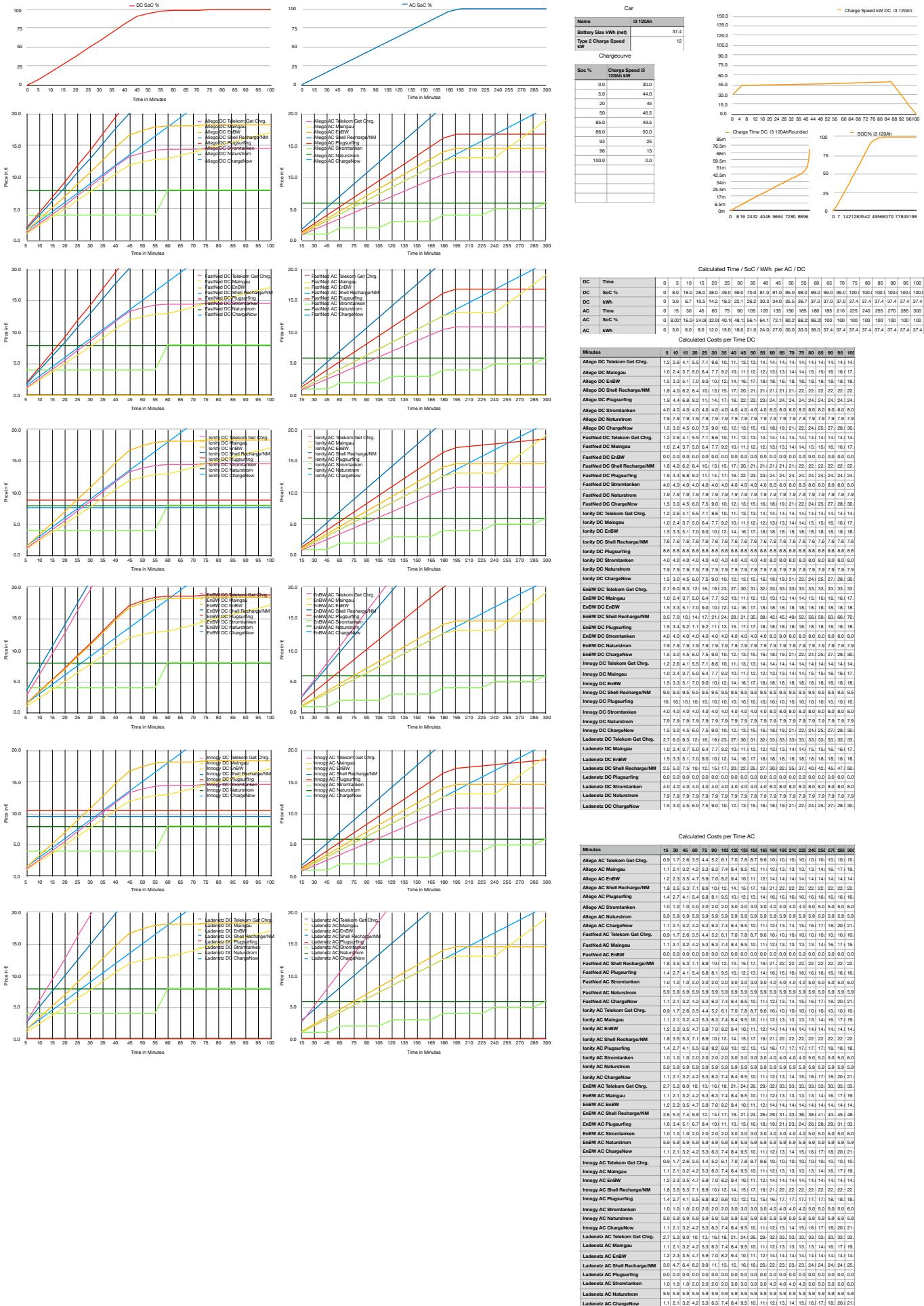
Minutes	12C	13C	15C	16S	18C	19C	21C	22C	24C	25C	27C	28C	30C
FastNed AC Stromtankan	3.0	3.0	3.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	6.0	
FastNed AC Naturstrom	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	
FastNed AC ChargeNow	8.4	9.5	10.	11.	12.	13.	14.	15.	16.	17.	18.	20.	21.
Ionity AC Telekom Get Chrg.	6.4	7.2	8.0	8.8	9.6	10.	11.	12.	13.	14.	15.	16.	
Ionity AC Maingau	7.7	8.7	9.6	10.	11.	12.	13.	14.	15.	17.	18.	20.	25.
Ionity AC EnBW	8.6	9.7	10.	11.	12.	13.	15.	16.	17.	18.	19.	20.	21.
Ionity AC Shell Recharge/NM	13.	14.	16.	17.	19.	21.	22.	24.	26.	27.	29.	30.	32.
Ionity AC Plugsurfing	10.	11.	12.	14.	15.	16.	17.	19.	20.	21.	22.	24.	25.
Ionity AC Stromtankan	3.0	3.0	3.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	6.0	
Ionity AC Naturstrom	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	
Ionity AC ChargeNow	8.4	9.5	10.	11.	12.	13.	14.	15.	16.	17.	18.	20.	21.
EnBW AC Telekom Get Chrg.	19.	22.	24.	26.	29.	31.	34.	36.	39.	41.	44.	46.	49.
EnBW AC Maingau	7.7	8.7	9.6	10.	11.	12.	13.	14.	15.	17.	20.	22.	25.
EnBW AC EnBW	8.6	9.7	10.	11.	12.	13.	15.	16.	17.	18.	19.	20.	21.
EnBW AC Shell Recharge/NM	19.	21.	24.	26.	29.	31.	33.	36.	38.	41.	43.	45.	48.
EnBW AC Plugsurfing	13.	15.	16.	18.	19.	21.	23.	24.	26.	28.	29.	31.	33.
EnBW AC Stromtankan	3.0	3.0	3.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	6.0	
EnBW AC Naturstrom	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	
EnBW AC ChargeNow	8.4	9.5	10.	11.	12.	13.	14.	15.	16.	17.	18.	20.	21.
Innogy AC Telekom Get Chrg.	6.4	7.2	8.0	8.8	9.6	10.	11.	12.	13.	14.	15.	16.	
Innogy AC Maingau	7.7	8.7	9.6	10.	11.	12.	13.	14.	15.	17.	20.	22.	25.
Innogy AC EnBW	8.6	9.7	10.	11.	12.	13.	15.	16.	17.	18.	19.	20.	21.
Innogy AC Shell Recharge/NM	13.	14.	16.	17.	19.	21.	22.	24.	26.	27.	29.	30.	32.
Innogy AC Plugsurfing	10.	11.	12.	14.	15.	16.	17.	19.	20.	21.	22.	24.	25.
Innogy AC Stromtankan	3.0	3.0	3.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	6.0	
Innogy AC Naturstrom	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	
Innogy AC ChargeNow	8.4	9.5	10.	11.	12.	13.	14.	15.	16.	17.	18.	20.	21.
Ladenetz AC Telekom Get Chrg.	19.	22.	24.	26.	29.	31.	34.	36.	39.	41.	44.	46.	49.
Ladenetz AC Maingau	7.7	8.7	9.6	10.	11.	12.	13.	14.	15.	17.	20.	22.	25.
Ladenetz AC EnBW	8.6	9.7	10.	11.	12.	13.	15.	16.	17.	18.	19.	20.	21.
Ladenetz AC Shell Recharge/NM	14.	15.	17.	19.	20.	22.	23.	25.	27.	28.	30.	32.	33.
Ladenetz AC Plugsurfing	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Ladenetz AC Stromtankan	3.0	3.0	3.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	6.0	
Ladenetz AC Naturstrom	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	
Ladenetz AC ChargeNow	8.4	9.5	10.	11.	12.	13.	14.	15.	16.	17.	18.	20.	21.



Calculated Charge Speed / Time			
SoC %	Charge Speed kW	Charge Time DC Model S	Charge Time DC Model S Rounded
		Time in Min	SoC% Model S
0	50.0	0m 0s	0m
1	58.3	0m 54s	1m
2	62.5	1m 43s	2m
3	66.8	2m 27s	2m
4	75.0	3m 7s	3m
5	81.3	3m 44s	4m
6	87.5	4m 18s	4m
7	93.8	4m 45s	5m
8	100.0	5m 19s	5m
9	106.3	5m 57s	6m
10	112.5	6m 1s	6m
11	118.8	6m 58s	7m
12	125.0	7m 2s	7m
13	126.0	7m 25s	7m
14	127.0	7m 48s	8m
15	128.0	8m 10s	8m
16	129.0	8m 33s	9m
17	130.0	8m 55s	9m
18	131.0	9m 17s	9m
19	132.0	9m 39s	10m
20	133	10m 1s	10m
21	133.5	10m 22s	10m
22	134	10m 44s	11m
23	134.5	11m 5s	11m
24	135	11m 27s	11m
25	135.5	11m 49s	12m
26	136	12m 9s	12m
27	136.5	12m 30s	13m
28	137	12m 51s	13m
29	137.4	13m 12s	13m
30	137.8	13m 33s	14m
31	138.2	13m 54s	14m
32	138.6	14m 15s	14m
33	139.0	14m 36s	15m
34	139.4	14m 57s	15m
35	139.8	15m 17s	15m
36	140.2	15m 38s	16m
37	140.6	15m 59s	16m
38	141.0	16m 19s	16m
39	141.4	16m 39s	17m
40	141.8	16m 59s	17m
41	142.2	17m 20s	17m
42	142.6	17m 40s	18m
43	143.0	18m 0s	18m
44	139.6	18m 20s	18m
45	136.1	18m 41s	19m
46	132.7	19m 3s	19m
47	129.3	19m 25s	19m
48	125.9	19m 47s	20m
49	122.4	20m 10s	20m
50	119.0	20m 34s	21m
51	116.1	20m 59s	21m
52	113.2	21m 24s	21m
53	110.3	21m 50s	22m
54	107.4	22m 16s	22m
55	104.5	22m 43s	23m
56	101.5	23m 11s	23m
57	98.6	23m 40s	24m
58	95.7	24m 10s	24m
59	92.8	24m 40s	25m
60	89.9	25m 12s	25m
61	87	25m 44s	26m
62	84.36363636	26m 18s	26m
63	81.27272727	26m 53s	27m
64	79.00909090	27m 28s	27m
65	76.45454545	28m 5s	28m
66	73.81818181	28m 44s	29m
67	71.18181818	29m 24s	29m
68	68.54545454	30m 5s	30m
69	65.30909090	30m 48s	31m
70	63.27272727	31m 32s	32m
71	60.63636363	32m 19s	32m
72	58	33m 7s	33m
73	54	33m 59s	34m
74	50	34m 54s	35m
75	46	35m 54s	36m
76	43.66666666	36m 58s	37m
77	41.33333333	38m 6s	38m
78	39	39m 18s	39m
79	37.2	40m 33s	41m
80	35.5	41m 53s	42m
81	33.7	43m 16s	43m
82	31.9	44m 44s	45m
83	30.1	46m 16s	46m
84	28.4	47m 55s	48m
85	26.6	49m 40s	50m
86	24.8	51m 32s	52m
87	23.0	53m 32s	54m
88	21.3	55m 42s	56m
89	19.5	58m 3s	58m
90	17.7	60m 38s	61m
91	16.0	62m 29s	63m
92	14.2	66m 40s	67m
93	12.4	70m 17s	70m
94	10.6	74m 27s	74m
95	8.9	79m 22s	79m
96	7.1	85m 23s	85m
97	5.3	93m 7s	93m
98	3.5	103m 57s	104m
99	1.8	122m 0s	122m
100	0.0	176m 10s	176m



Calculated Charge Speed / Time			
SoC %	Charge Current DC 9kW	Charge Time DC 5.94kW	Charge Time DC 3.94kW
0	30.0	0m 0s	0m
1	32.6	0m 2s	1m
2	35.2	1m 2s	1m
3	37.8	1m 30s	1m
4	40.4	1m 55s	2m
5	43.0	2m 20s	2m
6	44.0	2m 43s	3m
7	45.0	3m 5s	3m
8	45.2	3m 28s	3m
9	45.3	3m 50s	4m
10	45.5	4m 12s	4m
11	45.7	4m 34s	5m
12	45.8	4m 55s	5m
13	46.0	5m 18s	5m
14	44.0	5m 41s	6m
15	44.0	6m 4s	6m
16	44.1	6m 25s	6m
17	44.1	6m 49s	7m
18	44.1	7m 12s	7m
19	44.2	7m 35s	8m
20	44.2	7m 58s	8m
21	44.2	8m 21s	8m
22	44.3	8m 43s	9m
23	44.3	9m 6s	9m
24	44.3	9m 29s	9m
25	44.4	9m 52s	10m
26	44.4	10m 14s	10m
27	44.4	10m 37s	11m
28	44.5	11m 0s	11m
29	44.5	11m 22s	11m
30	44.5	11m 45s	12m
31	44.6	12m 8s	12m
32	44.6	12m 30s	13m
33	44.6	12m 53s	13m
34	44.7	13m 15s	13m
35	44.7	13m 38s	14m
36	44.8	14m 0s	14m
37	44.8	14m 23s	14m
38	44.8	14m 45s	15m
39	44.9	15m 8s	15m
40	44.9	15m 30s	16m
41	44.9	15m 53s	16m
42	45.0	16m 15s	16m
43	45.0	16m 38s	17m
44	45.0	17m 0s	17m
45	45.1	17m 22s	17m
46	45.1	17m 45s	18m
47	45.1	18m 7s	18m
48	45.2	18m 29s	18m
49	45.2	18m 52s	19m
50	45.2	19m 14s	19m
51	45.3	19m 36s	20m
52	45.3	19m 59s	20m
53	45.3	20m 21s	20m
54	45.4	20m 43s	21m
55	45.4	21m 5s	21m
56	45.4	21m 28s	21m
57	45.5	21m 50s	22m
58	45.5	22m 12s	22m
59	45.5	22m 34s	23m
60	45.5	22m 56s	23m
61	47.0	23m 17s	23m
62	47.0	23m 39s	24m
63	47.3	24m 0s	24m
64	48.0	24m 21s	24m
65	48.1	24m 42s	25m
66	48.3	25m 2s	25m
67	48.3	25m 24s	25m
68	48.3	25m 45s	26m
69	48.4	26m 5s	26m
70	48.5	26m 28s	26m
71	48.6	26m 47s	27m
72	48.7	27m 8s	27m
73	48.8	27m 28s	27m
74	48.8	27m 49s	28m
75	48.9	28m 10s	28m
76	49.0	28m 30s	29m
77	49.1	28m 51s	29m
78	49.2	29m 11s	29m
79	49.3	29m 22s	30m
80	49.3	29m 52s	30m
81	49.4	30m 1s	30m
82	49.5	30m 33s	31m
83	45.7	30m 54s	31m
84	41.9	31m 17s	31m
85	38.8	31m 42s	32m
86	36.5	32m 9s	32m
87	34.1	32m 38s	33m
88	31.7	33m 8s	33m
89	29.4	33m 41s	34m
90	27.0	34m 17s	34m
91	24.3	34m 55s	35m
92	21.6	35m 40s	36m
93	18.9	36m 30s	36m
94	16.2	37m 27s	37m
95	13.5	38m 35s	38m
96	10.8	39m 58s	40m
97	8.1	41m 45s	42m
98	5.4	44m 14s	44m
99	2.7	48m 23s	48m
100	0.0	60m 50s	61m



Calculated Charge Speed / Time			Calculated SoC / Time		
SoC %	Charge Time DC 300W	Charge Time DC 5.120Ah	Time in Min	SoC% i3 120Ah	Round
0	30.0	0m 0s	0m	0	0
1	32.8	0m 43s	1m	1	2
2	35.6	1m 22s	1m	2	4
3	38.4	1m 59s	2m	3	5
4	41.2	2m 32s	3m	4	7
5	44.0	3m 45s	3m	5	9
6	44.1	3m 55s	4m	6	11
7	44.1	4m 5s	4m	7	13
8	44.2	4m 36s	5m	8	15
9	44.3	5m 55s	5m	9	17
10	44.3	5m 55s	6m	10	19
11	44.4	6m 7s	6m	11	21
12	44.5	6m 52s	7m	12	23
13	44.5	7m 7s	7m	13	25
14	44.6	7m 38s	8m	14	27
15	44.7	8m 8s	8m	15	29
16	44.7	8m 38s	9m	16	31
17	44.8	9m 8s	9m	17	33
18	44.9	9m 38s	10m	18	35
19	44.9	10m 8s	10m	19	37
20	45	10m 38s	11m	20	39
21	45.05	11m 8s	11m	21	42
22	45.1	11m 38s	12m	22	44
23	45.15	12m 8s	12m	23	46
24	45.2	12m 37s	13m	24	48
25	45.25	13m 7s	13m	25	50
26	45.3	13m 37s	14m	26	52
27	45.35	14m 7s	14m	27	54
28	45.4	14m 36s	15m	28	56
29	45.45	15m 6s	15m	29	58
30	45.5	15m 35s	16m	30	60
31	45.55	16m 5s	16m	31	62
32	45.6	16m 35s	17m	32	64
33	45.65	17m 4s	17m	33	67
34	45.7	17m 34s	18m	34	69
35	45.75	18m 3s	18m	35	71
36	45.8	18m 32s	19m	36	73
37	45.85	19m 2s	19m	37	75
38	45.9	19m 31s	20m	38	77
39	45.95	20m 0s	20m	39	80
40	46	20m 30s	20m	40	82
41	46.05	20m 59s	21m	41	84
42	46.1	21m 28s	21m	42	86
43	46.15	21m 57s	22m	43	88
44	46.2	22m 27s	22m	44	90
45	46.25	22m 56s	23m	45	92
46	46.3	23m 25s	23m	46	93
47	46.35	23m 54s	24m	47	94
48	46.4	24m 23s	24m	48	95
49	46.45	24m 52s	25m	49	96
50	46.5	25m 21s	25m	50	96
51	46.6	25m 50s	26m	51	97
52	46.7	26m 19s	26m	52	97
53	46.8	26m 48s	27m	53	98
54	46.8	27m 16s	27m	54	98
55	46.9	27m 45s	28m	55	99
56	47.0	28m 14s	28m	56	99
57	47.1	28m 42s	29m	57	99
58	47.2	29m 11s	29m	58	99
59	47.3	29m 39s	30m	59	100
60	47.4	30m 8s	30m	60	100
61	47.4	30m 39s	31m	61	100
62	47.5	31m 5s	31m	62	100
63	47.6	31m 33s	32m	63	100
64	47.7	32m 1s	32m	64	100
65	47.8	32m 29s	32m	65	100
66	47.9	32m 57s	33m	66	100
67	48.0	33m 26s	33m	67	100
68	48.0	33m 54s	34m	68	100
69	48.1	34m 22s	34m	69	100
70	48.2	34m 50s	35m	70	100
71	48.3	35m 17s	35m	71	100
72	48.4	35m 45s	36m	72	100
73	48.5	36m 13s	36m	73	100
74	48.6	36m 41s	37m	74	100
75	48.6	37m 9s	37m	75	100
76	48.7	37m 36s	38m	76	100
77	48.8	38m 4s	38m	77	100
78	48.9	38m 31s	39m	78	100
79	49.0	38m 59s	39m	79	100
80	49.1	39m 26s	39m	80	100
81	49.2	39m 54s	40m	81	100
82	49.2	40m 21s	40m	82	100
83	49.3	40m 48s	41m	83	100
84	49.4	41m 15s	41m	84	100
85	49.5	41m 43s	42m	85	100
86	50.0	42m 10s	42m	86	100
87	48.4	42m 38s	43m	87	100
88	42.9	43m 8s	43m	88	100
89	39.3	43m 41s	44m	89	100
90	35.7	44m 17s	44m	90	100
91	32.1	44m 55s	45m	91	100
92	28.6	45m 41s	46m	92	100
93	25	46m 31s	47m	93	100
94	21	47m 30s	47m	94	100
95	17	48m 41s	49m	95	100
96	13	50m 10s	50m	96	100
97	9.8	52m 9s	52m	97	100
98	6.5	54m 54s	55m	98	100
99	3.3	59m 31s	60m	99	100
100	0.0	73m 19s	73m	100	100

Cars						
i3 94Ah	i3 120Ah	Model 3 SR Plus	Model 3 LR	Model S		
Battery Size kWh (net)	28	37.4	54	75	80	

Chargercurve samples									
SOC %	i3 94Ah	Soc %	i3 120Ah	Soc %	Model 3 SR Plus	Soc %	Model 3 LR	Soc %	Model S
0.0	30.0	0.0	30.0	0.0	45.0	0.0	45.0	0.0	50.0
5.0	43.0	5.0	44.0	10.0	103.0	5.0	100.0	12.0	125.0
7.0	45.0	20	45	43	103	10	135	20	133
13.0	46.0	50	46.5	50	105	12	137	28	137
14.0	44.0	85.0	49.5	60.0	72.0	45.0	148.0	43.0	143.0
58.0	45.5	86.0	50.0	72.0	54.5	52.0	148.5	50.0	119.0
60.0	47.0	93	25	76	45	55.5	136	61	67
62.5	47.0	96	13	80	36	58.5	122	72	58
64.0	48.0	100.0	0.0	84.0	29.0	61	108	75	46
82.0	49.5			93	18	65	102	78	39
84.5	40.0			100.0	0.0	70.0	90.0	100.0	0.0
90.0	27.0					75.0	73.0		
100.0	0.0					78	63		
						83.0	51.0		
						85.0	45.0		
						90.0	35.0		
						100.0	0.0		

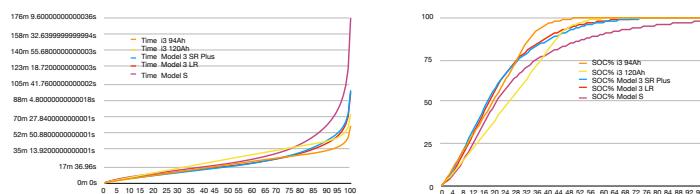
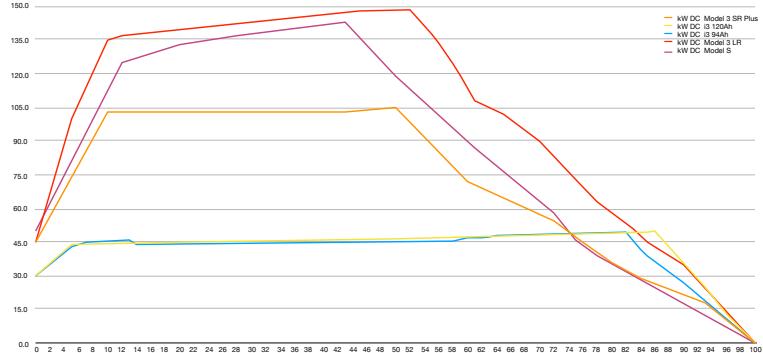


Table 1

SOC %	kW DC i3 94Ah	Time i3 94Ah	kW DC i3 120Ah	Time i3 120Ah	kW DC Model 3 SR Plus	Time Model 3 SR Plus	kW DC Model 3 LR	Time Model 3 LR	kW DC Model S	Time Model S
0	30.0	0m 0s	30.0	0m 0s	45.0	0m 0s	45.0	0m 0s	50.0	0m 0s
1	32.6	0m 32s	32.8	0m 43s	50.8	0m 41s	56.0	0m 53s	56.3	0m 54s
2	35.2	1m 2s	35.6	1m 22s	56.6	1m 17s	67.0	1m 37s	62.5	1m 43s
3	37.8	1m 30s	38.4	1m 59s	62.4	1m 49s	78.0	2m 15s	68.8	2m 27s
4	40.4	1m 55s	41.2	2m 32s	68.2	2m 19s	89.0	2m 47s	75.0	3m 7s
5	43.0	2m 20s	44.0	3m 4s	74.0	2m 47s	100.0	3m 16s	81.3	3m 44s
6	44.0	2m 43s	44.1	3m 35s	79.8	3m 12s	107.0	3m 42s	87.5	4m 18s
7	45.0	3m 5s	44.1	4m 5s	85.6	3m 25s	114.0	4m 6s	93.8	4m 49s
8	45.2	3m 28s	44.2	4m 36s	91.4	3m 57s	121.0	4m 29s	100.0	5m 19s
9	45.3	3m 50s	44.3	5m 6s	97.2	4m 18s	128.0	4m 51s	106.3	5m 47s
10	45.5	4m 12s	44.3	5m 39s	103.0	4m 37s	135	5m 11s	112.5	6m 13s
11	45.7	4m 34s	44.4	6m 7s	103.0	4m 56s	136	5m 31s	118.8	6m 38s
12	45.8	4m 56s	44.5	6m 37s	103.0	5m 15s	137	5m 51s	125.0	7m 2s
13	46.0	5m 18s	44.5	7m 7s	103.0	5m 34s	137.3	6m 11s	126.0	7m 25s
14	44.0	5m 1s	44.6	7m 38s	103.0	5m 33s	137.7	6m 30s	127.0	7m 48s
15	44.0	6m 4s	44.7	8m 8s	103.0	6m 12s	138.0	6m 50s	128.0	8m 10s
16	44.1	6m 26s	44.7	8m 38s	103.0	6m 31s	138.3	7m 9s	129.0	8m 33s
17	44.1	6m 49s	44.8	9m 8s	103.0	6m 49s	138.7	7m 29s	130.0	8m 55s
18	44.1	7m 12s	44.9	9m 28s	103.0	7m 8s	139.0	7m 48s	131.0	9m 17s
19	44.2	7m 35s	44.9	10m 8s	103.0	7m 27s	139.3	8m 8s	132.0	9m 39s
20	44.2	7m 58s	45	10m 28s	103.0	7m 46s	139.7	8m 21s	133	10m 15s
21	44.2	8m 21s	45.0	11m 8s	103.0	8m 5s	140.0	8m 48s	133.5	10m 22s
22	44.3	8m 43s	45.1	11m 38s	103.0	8m 24s	140.3	9m 6s	134	10m 44s
23	44.3	9m 6s	45.15	12m 8s	103.0	8m 43s	140.7	9m 25s	134.5	11m 5s
24	44.3	9m 29s	45.2	12m 37s	103.0	9m 2s	141.0	9m 44s	135	11m 27s
25	44.4	9m 52s	45.25	13m 7s	103.0	9m 20s	141.3	10m 3s	135.5	11m 48s
26	44.4	10m 14s	45.3	13m 37s	103.0	9m 39s	141.7	10m 22s	136	12m 9s
27	44.4	10m 37s	45.35	14m 7s	103.0	9m 58s	142.0	10m 41s	136.5	12m 30s
28	44.5	11m 0s	45.4	14m 36s	103.0	10m 17s	142.3	11m 0s	137	12m 51s
29	44.5	11m 22s	45.45	15m 6s	103.0	10m 36s	142.7	11m 19s	137.4	13m 12s
30	44.5	11m 45s	45.5	15m 35s	103.0	10m 55s	143.0	11m 38s	137.8	13m 33s
31	44.6	12m 8s	45.55	16m 5s	103.0	11m 14s	143.3	11m 57s	138.2	13m 54s
32	44.6	12m 30s	45.6	16m 35s	103.0	11m 33s	143.7	12m 16s	138.6	14m 15s
33	44.6	12m 53s	45.65	17m 4s	103.0	11m 51s	144.0	12m 35s	139.0	14m 36s
34	44.7	13m 15s	45.7	17m 34s	103.0	12m 10s	144.3	12m 53s	139.4	14m 56s
35	44.7	13m 38s	45.75	18m 3s	103.0	12m 29s	144.7	13m 12s	139.8	15m 17s
36	44.8	14m 0s	45.8	18m 32s	103.0	12m 48s	145.0	13m 31s	140.2	15m 38s
37	44.8	14m 23s	45.85	19m 2s	103.0	13m 7s	145.3	13m 49s	140.6	15m 58s
38	44.8	14m 45s	45.9	19m 31s	103.0	13m 29s	145.7	14m 8s	141.0	16m 19s
39	44.9	15m 8s	45.95	20m 0s	103.0	13m 45s	146.0	14m 26s	141.4	16m 39s

Time in Min	SOC% i3 94Ah	SOC% i3 120Ah	SOC% Model 3 SR Plus	SOC% Model 3 LR	SOC% Model S
0	0	0	0	0	0
1	2	2	2	2	2
2	5	4	4	4	3
3	7	5	6	5	4
4	10	7	9	7	6
5	13	9	12	10	8
6	15	11	15	13	10
7	18	13	18	16	12
8	21	15	21	19	15
9	23	17	24	22	18
10	26	19	28	25	20
11	29	21	31	28	23
12	31	23	34	32	26
13	34	25	37	35	29
14	36	27	40	38	32
15	39	29	43	41	35
16	42	31	47	45	38
17	44	33	50	48	41
18	47	35	53	51	44
19	50	37	56	54	46
20	53	39	58	57	49
21	55	42	61	60	52
22	58	44	63	63	54
23	61	46	65	65	56
24	64	48	67	67	58
25	66	50	69	69	60
26	69	52	71	71	62
27	72	54	72	73	64
28	75	56	74	75	65
29	78	58	76	77	67
30	81	60	77	78	68
31	84	62	78	79	70
32	86	64	79	81	71
33	88	66	81	82	72
34	90	69	82	83	74
35	92	71	83	84	75

