

The battery pack was discharged in the state that it left the car
 The module voltages fell alarmingly fast, so discharging was halted before reaching 168V

In hindsight, I should have grid charged the pack to 224V (8V/module) before discharging the pack to 168V (6V/module). Compare with DISC-2

0:10:00 Measurement Interval

Start -14 -8 Date: 11/15/2023

OC D D Load: 72 Ohm

Time 10:40 10:48 11:00 0:20 Duration (t) Est. Power (mAh)

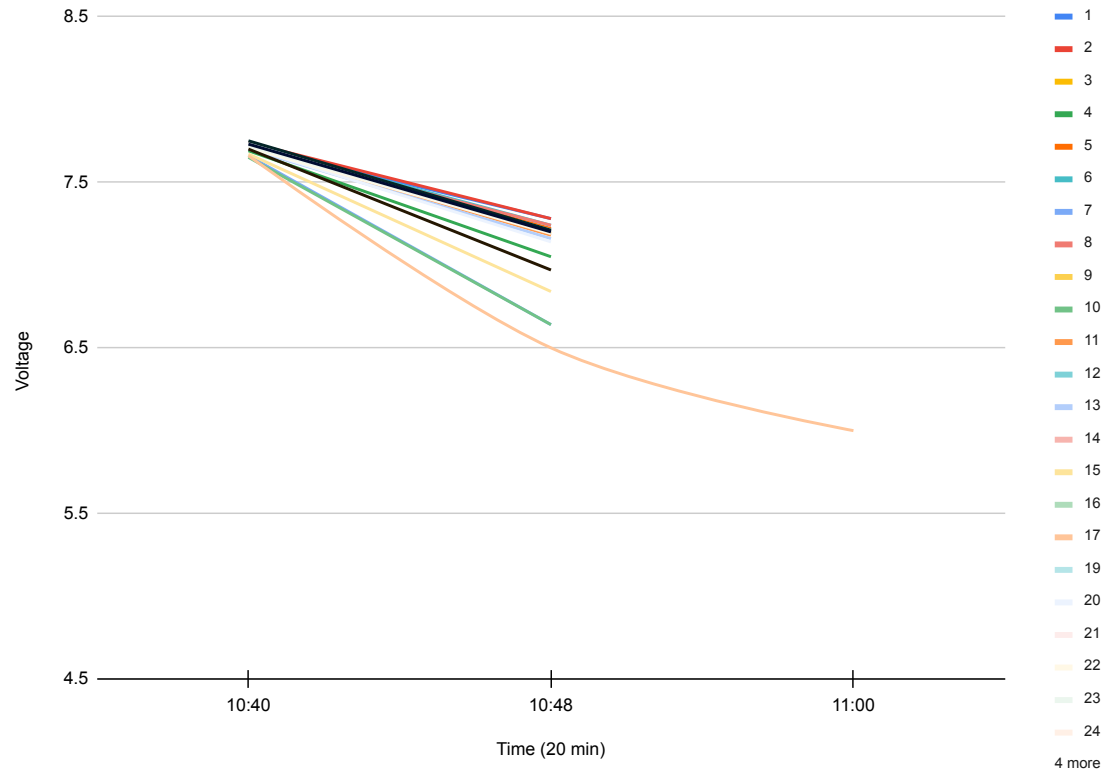
Pack 215 201 193 -22 Drop (volts) 944

1	7.7	7.3		-0.44	972
2	7.7	7.3		-0.46	974
3	7.7	7.2		-0.52	966
4	7.7	7.1		-0.64	955
5	7.7	7.2		-0.50	968
6	7.7	7.2		-0.49	970
7	7.7	6.6		-1.02	927
8	7.7	7.2		-0.47	969
9	7.7	7.2		-0.52	966
10	7.7	6.6		-1.01	926
11	7.7	7.2		-0.53	965
12	7.7	7.2		-0.51	968
13	7.7	7.2		-0.54	963
14	7.7	7.2		-0.51	968
15	7.7	6.8		-0.83	940
16	7.7	7.2		-0.51	968
17	7.7	6.5	6.0	-1.66	885
18	7.7	7.2		-0.52	967
19	7.7	7.2		-0.52	967
20	7.7	7.1		-0.57	963
21	7.7	7.2		-0.52	967
22	7.7	7.2		-0.52	966
23	7.7	7.2		-0.52	967
24	7.7	7.2		-0.53	968
25	7.7	7.2		-0.54	968
26	7.7	7.0		-0.73	951
27	7.8	7.2		-0.54	970
28	7.7	7.2		-0.53	968

Total 215.9 199.2 6.0 -16.7

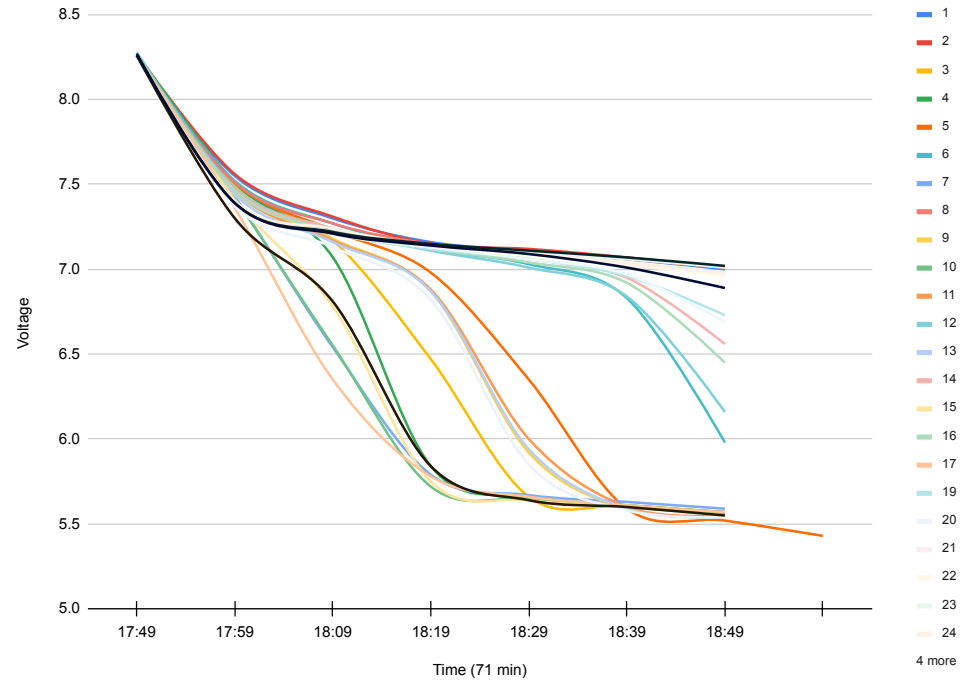
Delta 0.10 0.78 Volts

Discharge #1 > 970mAh



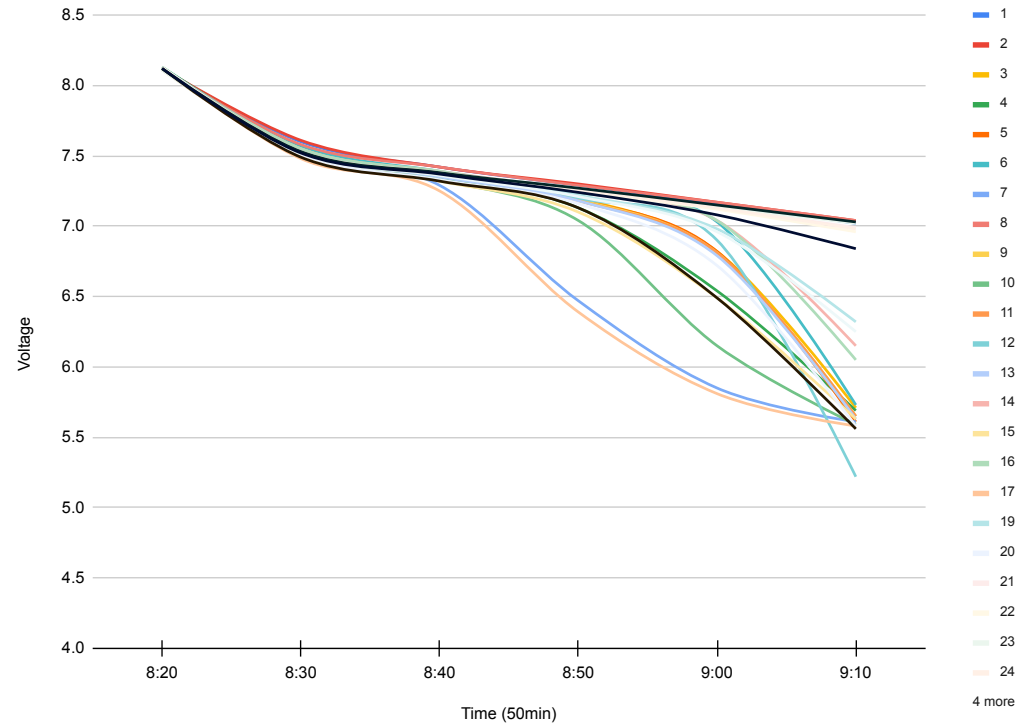
Charged the pack to 224V (8V/module) This only took 1375mAh (2h 45m)										Start	End	Date:	11/15/2023		DISC-2		
Discharged the pack to 168V (6V/module). Stopped when the first module reached 5.4V (0.9V/cell)										OC	C	Current:	500	mA			
Notes: Power Output is greater than Power Input										Time	11:50	14:35	2:45	Duration (t)	Power Input (mAh)		
The pack voltage continues to rise after charging has ended										Pack Voltage	201	223	22	Rise (v)	1375	7.96	V/module
0:10:00 Measurement Interval										C / D Rest Time	3:03						
Start -20 -10 -10 -7 -5 -3 -7 Date: 11/15/2023										Load:	72	Ohm					
Time	17:38	17:49	17:59	18:09	18:19	18:29	18:39	18:49	1:11	Duration (t)	Est. Power (mAh)						
Pack	231	211	201	191	184	179	176	169	-62	Drop (v)	3287	3123					
1	8.3	7.6	7.3	7.2	7.1	7.1	7.0		-1.26		3511						
2	8.3	7.6	7.3	7.2	7.1	7.1	7.0		-1.26		3516						
3	8.3	7.5	7.2	6.5	5.7	5.6	5.6		-2.68		3180						
4	8.3	7.5	7.1	5.8	5.7	5.6	5.6		-2.70		3184						
5	8.3	7.5	7.2	7.0	6.4	5.6	5.5	5.4	-2.83		3150						
6	8.3	7.5	7.3	7.1	7.0	6.8	6.0		-2.28		3277						
7	8.3	7.4	6.5	5.8	5.7	5.6	5.6		-2.67		3187						
8	8.3	7.5	7.3	7.2	7.1	7.1	7.0		-1.24		3511						
9	8.3	7.5	7.2	6.9	5.9	5.6	5.5		-2.72		3175						
10	8.3	7.4	6.6	5.7	5.7	5.6	5.6		-2.70		3180						
11	8.3	7.5	7.2	6.9	6.0	5.6	5.6		-2.71		3178						
12	8.3	7.5	7.2	7.1	7.0	6.8	6.2		-2.12		3323						
13	8.3	7.4	7.2	6.9	5.9	5.6	5.5		-2.72		3175						
14	8.3	7.5	7.2	7.1	7.1	7.0	6.6		-1.70		3410						
15	8.3	7.4	6.8	5.8	5.6	5.6	5.6		-2.70		3175						
16	8.3	7.5	7.2	7.1	7.0	6.9	6.5		-1.82		3387						
17	8.3	7.4	6.4	5.8	5.7	5.6	5.6		-2.69		3182						
18	8.3	7.4	7.2	7.1	7.1	7.1	7.0		-1.27		3509						
19	8.3	7.4	7.2	7.1	7.1	7.0	6.7		-1.52		3447						
20	8.3	7.4	7.1	6.8	5.9	5.6	5.5		-2.72		3175						
21	8.3	7.4	7.2	7.1	7.1	7.0	7.0		-1.28		3507						
22	8.3	7.4	7.2	7.1	7.1	7.0	7.0		-1.30		3502						
23	8.3	7.4	7.2	7.1	7.1	7.1	7.0		-1.24		3511						
24	8.3	7.4	7.2	7.1	7.1	7.0	7.0		-1.29		3509						
25	8.3	7.4	7.2	7.1	7.1	7.0	6.7		-1.57		3440						
26	8.3	7.3	6.8	5.8	5.6	5.6	5.6		-2.71		3178						
27	8.3	7.4	7.2	7.2	7.1	7.1	7.0		-1.24		3516						
28	8.3	7.4	7.2	7.1	7.1	7.0	6.9		-1.38		3488						
Total	231.3	208.3	199.0	189.8	182.9	179.2	175.1	5.4	-56.2		3339						
Delta	0.03	0.26	0.96	1.44	1.48	1.49	1.50		Volts								

1375mAh > Discharge #2 > 3340mAh (243%)



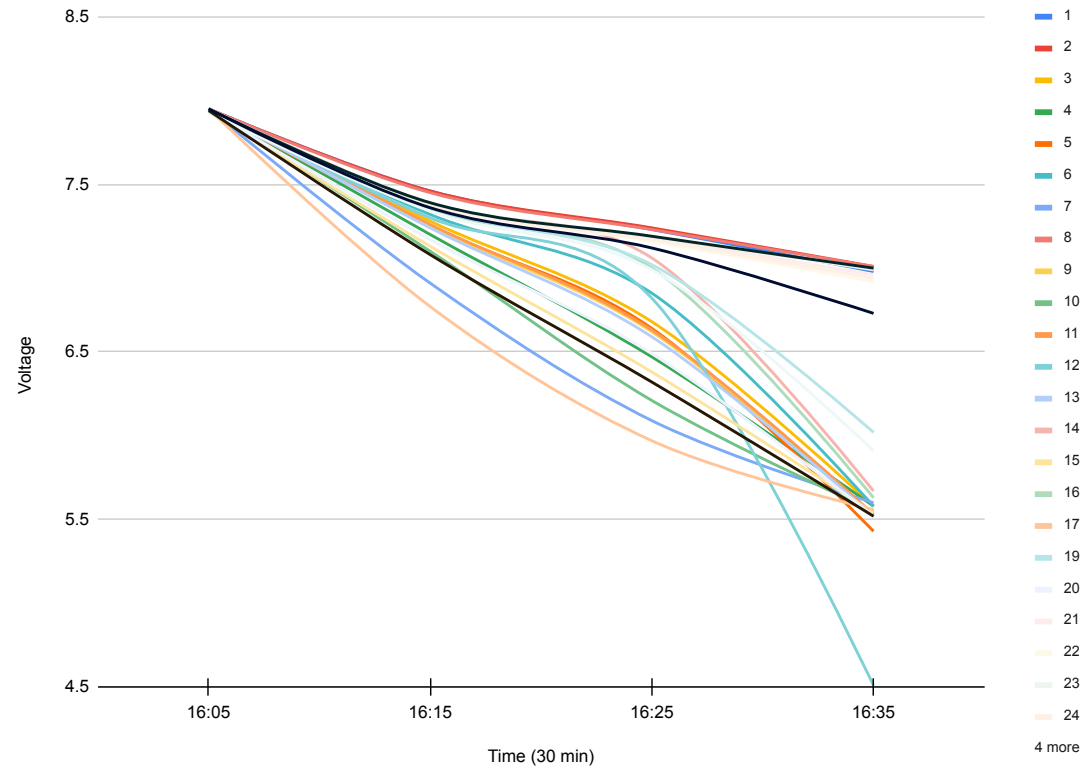
Charged the pack to 224V (8V/module)										Start	End	Date:	16/11/23	DISC-3			
Discharged the pack to 168V (6V/module)										OC	C	Current:	500	mA			
Notes: Power Output is greater than Power Input										Time	6:00	10:00	Duration (t)	Power Input			
The pack voltage continues to rise after charging has ended										Pack Voltage	190	224	34	Rise (v)	2000	8.00	V/module
0:10:00 Measurement Interval										C / D Rest Time	22:20						
Start -15 -5 -6 -8 -17 Date: 11/17/2023										Load:	72	Ohm					
Time	8:20	8:30	8:40	8:50	9:00	9:10	0:50	Duration (t)	Est. Power (mAh)								
Pack	227	212	207	201	193	176	-51	Drop (v)	2332	2245							
1	8.1	7.6	7.4	7.3	7.2	7.0	-1.10		2453								
2	8.1	7.6	7.4	7.3	7.2	7.0	-1.08		2456								
3	8.1	7.6	7.4	7.2	6.8	5.7	-2.41		2241								
4	8.1	7.6	7.4	7.1	6.5	5.7	-2.44		2239								
5	8.1	7.6	7.4	7.2	6.8	5.6	-2.51		2225								
6	8.1	7.6	7.4	7.2	7.0	5.7	-2.39		2244								
7	8.1	7.5	7.3	6.5	5.9	5.6	-2.51		2225								
8	8.1	7.6	7.4	7.3	7.2	7.0	-1.08		2456								
9	8.1	7.6	7.4	7.2	6.8	5.7	-2.47		2231								
10	8.1	7.5	7.3	7.0	6.2	5.6	-2.53		2222								
11	8.1	7.5	7.4	7.2	6.8	5.7	-2.47		2231								
12	8.1	7.6	7.4	7.2	6.9	5.2	-2.91		2163								
13	8.1	7.5	7.4	7.2	6.8	5.6	-2.49		2228								
14	8.1	7.6	7.4	7.3	7.0	6.2	-1.97		2312								
15	8.1	7.5	7.3	7.1	6.5	5.6	-2.48		2226								
16	8.1	7.6	7.4	7.2	7.0	6.1	-2.07		2296								
17	8.1	7.5	7.3	6.4	5.8	5.6	-2.54		2220								
18	8.1	7.5	7.4	7.3	7.1	7.0	-1.12		2450								
19	8.1	7.5	7.4	7.2	7.0	6.3	-1.79		2338								
20	8.1	7.5	7.3	7.2	6.7	5.6	-2.54		2220								
21	8.1	7.5	7.4	7.3	7.1	7.0	-1.12		2447								
22	8.1	7.5	7.4	7.3	7.1	7.0	-1.16		2444								
23	8.1	7.5	7.4	7.3	7.1	7.0	-1.09		2452								
24	8.1	7.5	7.4	7.3	7.1	7.0	-1.15		2448								
25	8.1	7.5	7.4	7.2	7.0	6.3	-1.87		2328								
26	8.1	7.5	7.3	7.1	6.5	5.6	-2.56		2217								
27	8.1	7.5	7.4	7.3	7.2	7.0	-1.09		2455								
28	8.1	7.5	7.4	7.2	7.1	6.8	-1.28		2424								
Total	227.4	211.1	206.2	200.4	191.4	173.1	-54.2		2318								
Delta	0.02	0.13	0.17	0.91	1.36	1.82	Volts										

2000mAh > Discharge #3 >2330mAh (116%)



Charged the pack to 224V (8V/module)					Start	End	Date:	11/17/2023	DISC-4			
Discharged the pack to 168V (6V/module)					OC	C	Current:	500	mA			
Notes:	The pack voltage did not rise during the rest between charging and discharging				Time	10:40	14:46	4:06	Duration (t)	Power Input		
					Pack Voltage	190	224	34	Rise (v)	2050	8.00	V/module
					C / D Rest Time	1:19						
0:10:00	Measurement Interval											
Start	-17	-12	-22	Date:	11/17/2023							
	OC	D	D	D	Load:	72 Ohm						
Time	16:05	16:15	16:25	16:35	0:30	Duration (t)	Est. Power (mAh)					
Pack	222	205	193	171	-51	Drop (v)	1365					
1	8.0	7.5	7.2	7.0	-0.97		1452					
2	8.0	7.5	7.2	7.0	-0.94		1454					
3	7.9	7.3	6.7	5.6	-2.36		1314					
4	8.0	7.2	6.5	5.6	-2.37		1315					
5	7.9	7.3	6.6	5.4	-2.51		1300					
6	8.0	7.3	6.9	5.6	-2.37		1315					
7	8.0	6.9	6.1	5.6	-2.35		1317					
8	8.0	7.5	7.2	7.0	-0.94		1454					
9	8.0	7.3	6.6	5.5	-2.43		1310					
10	8.0	7.1	6.2	5.6	-2.40		1313					
11	8.0	7.3	6.6	5.5	-2.42		1311					
12	7.9	7.3	6.8	4.5	-3.42		1209					
13	8.0	7.2	6.6	5.5	-2.43		1310					
14	8.0	7.4	7.1	5.7	-2.28		1324					
15	7.9	7.1	6.4	5.5	-2.40		1311					
16	7.9	7.4	7.0	5.6	-2.31		1319					
17	8.0	6.8	6.0	5.6	-2.39		1313					
18	8.0	7.4	7.2	7.0	-0.98		1451					
19	7.9	7.4	7.0	6.0	-1.91		1356					
20	7.9	7.2	6.5	5.5	-2.42		1309					
21	8.0	7.4	7.2	7.0	-0.99		1450					
22	8.0	7.4	7.2	6.9	-1.03		1446					
23	8.0	7.4	7.2	7.0	-0.96		1453					
24	8.0	7.4	7.2	6.9	-1.01		1448					
25	7.9	7.3	7.0	5.9	-2.02		1346					
26	7.9	7.1	6.3	5.5	-2.42		1309					
27	8.0	7.4	7.2	7.0	-0.95		1453					
28	8.0	7.4	7.1	6.7	-1.22		1427					
Total	222.5	203.8	190.7	169.3	-53.2		1360					
Delta	0.02	0.69	1.27	2.50	Volts							

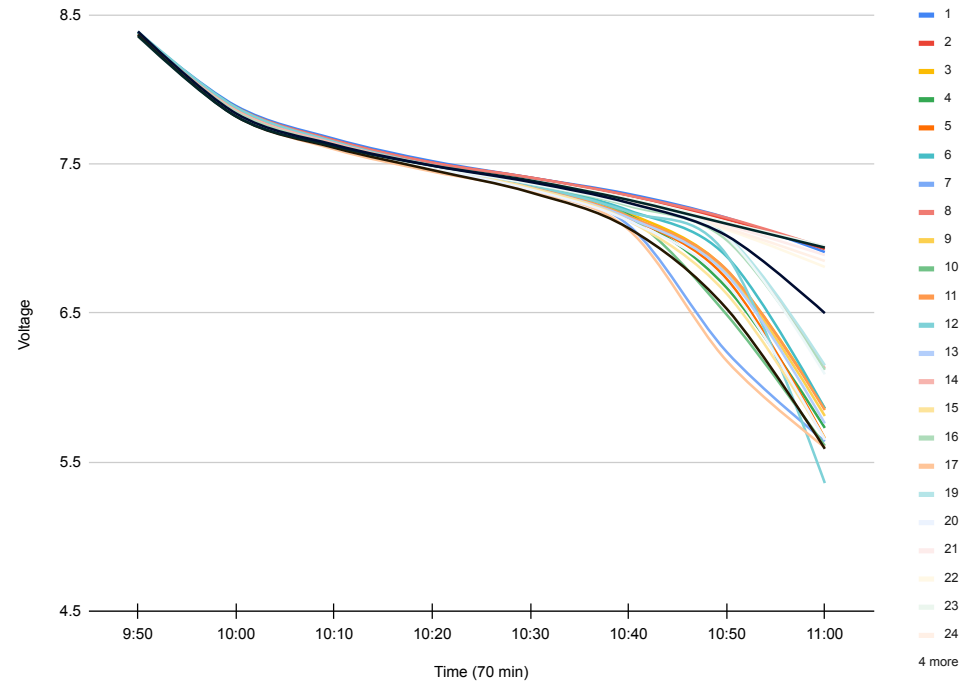
2050mAh > Discharge #4 > 1365mAh (67%)



Added 6500mAh to the pack. The voltage reached 240V (8.57V/module)												
Discharged the pack to 168V (6V/module)												
<i>Note: Before the next charging cycle, I individually discharged every module to 6.0V</i>												
0:10:00 Measurement Interval												
Start	-14	-6	-5	-3	-4	-9	-25	Date:	11/18/2023			
OC	D	D	D	D	D	D	D	Load:	72 Ohm			
Time	9:50	10:00	10:10	10:20	10:30	10:40	10:50	11:00	1:10	Duration (t)	Est. Power (mAh)	
Pack	234	220	214	209	206	202	193	168	-66	Drop (v)	3257 3346	
1	8.4	7.9	7.7	7.5	7.4	7.3	7.1	6.9	-1.5		3469	
2	8.4	7.9	7.7	7.5	7.4	7.3	7.1	6.9	-1.4		3469	
3	8.4	7.9	7.7	7.5	7.4	7.2	6.8	5.9	-2.5		3226	
4	8.4	7.9	7.7	7.5	7.4	7.2	6.7	5.7	-2.7		3201	
5	8.4	7.9	7.6	7.5	7.3	7.1	6.7	5.7	-2.7		3180	
6	8.4	7.9	7.7	7.5	7.4	7.2	6.9	5.9	-2.5		3228	
7	8.4	7.9	7.6	7.5	7.3	7.1	6.2	5.6	-2.7		3176	
8	8.4	7.9	7.7	7.5	7.4	7.3	7.1	6.9	-1.4		3471	
9	8.4	7.9	7.6	7.5	7.4	7.2	6.8	5.8	-2.6		3214	
10	8.4	7.9	7.6	7.5	7.3	7.2	6.5	5.6	-2.8		3169	
11	8.4	7.9	7.6	7.5	7.4	7.2	6.8	5.9	-2.5		3226	
12	8.4	7.9	7.7	7.5	7.4	7.2	6.9	5.4	-3.0		3119	
13	8.4	7.9	7.6	7.5	7.3	7.1	6.8	5.8	-2.6		3203	
14	8.4	7.9	7.6	7.5	7.4	7.2	7.0	6.1	-2.2		3289	
15	8.4	7.8	7.6	7.5	7.3	7.1	6.6	5.7	-2.7		3180	
16	8.4	7.9	7.6	7.5	7.4	7.2	7.0	6.1	-2.3		3287	
17	8.4	7.8	7.6	7.5	7.3	7.1	6.2	5.6	-2.8		3169	
18	8.4	7.8	7.6	7.5	7.4	7.3	7.1	6.9	-1.5		3457	
19	8.4	7.8	7.6	7.5	7.4	7.2	7.0	6.2	-2.2		3292	
20	8.4	7.8	7.6	7.5	7.3	7.1	6.7	5.7	-2.7		3178	
21	8.4	7.8	7.6	7.5	7.4	7.3	7.1	6.9	-1.5		3462	
22	8.4	7.8	7.6	7.5	7.4	7.2	7.1	6.8	-1.6		3444	
23	8.4	7.8	7.6	7.5	7.4	7.3	7.1	7.0	-1.4		3473	
24	8.4	7.8	7.6	7.5	7.4	7.3	7.1	6.9	-1.5		3453	
25	8.4	7.8	7.6	7.5	7.4	7.2	7.0	6.1	-2.3		3280	
26	8.4	7.8	7.6	7.5	7.3	7.1	6.5	5.6	-2.8		3167	
27	8.4	7.8	7.6	7.5	7.4	7.3	7.1	6.9	-1.4		3471	
28	8.4	7.8	7.6	7.5	7.4	7.2	7.0	6.5	-1.9		3378	
Total	234.3	219.8	213.7	209.6	206.2	201.5	192.0	172.7	-61.6		3298	
Delta	0.03	0.07	0.07	0.07	0.10	0.24	0.96	1.59	Volts			

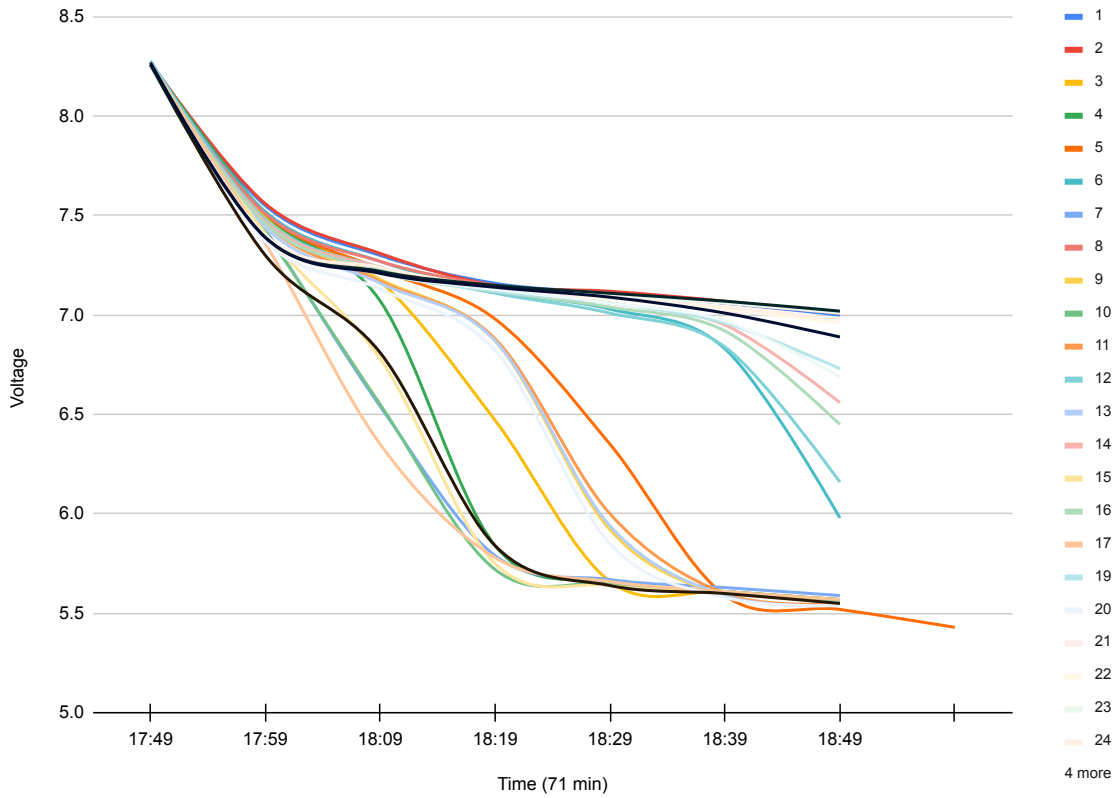
	Start	End	Date:	11/17/2023			DISC-5
	OC	C	Current:	500	mA		
Time	18:00	7:00	13:00	Duration (t)	Power Input		
Pack Voltage	186	240	54	Rise (v)	6500	8.57	V/module
C / D Rest Time	2:50						

6500mAh > Discharge #5 > 3300mAh (51%)

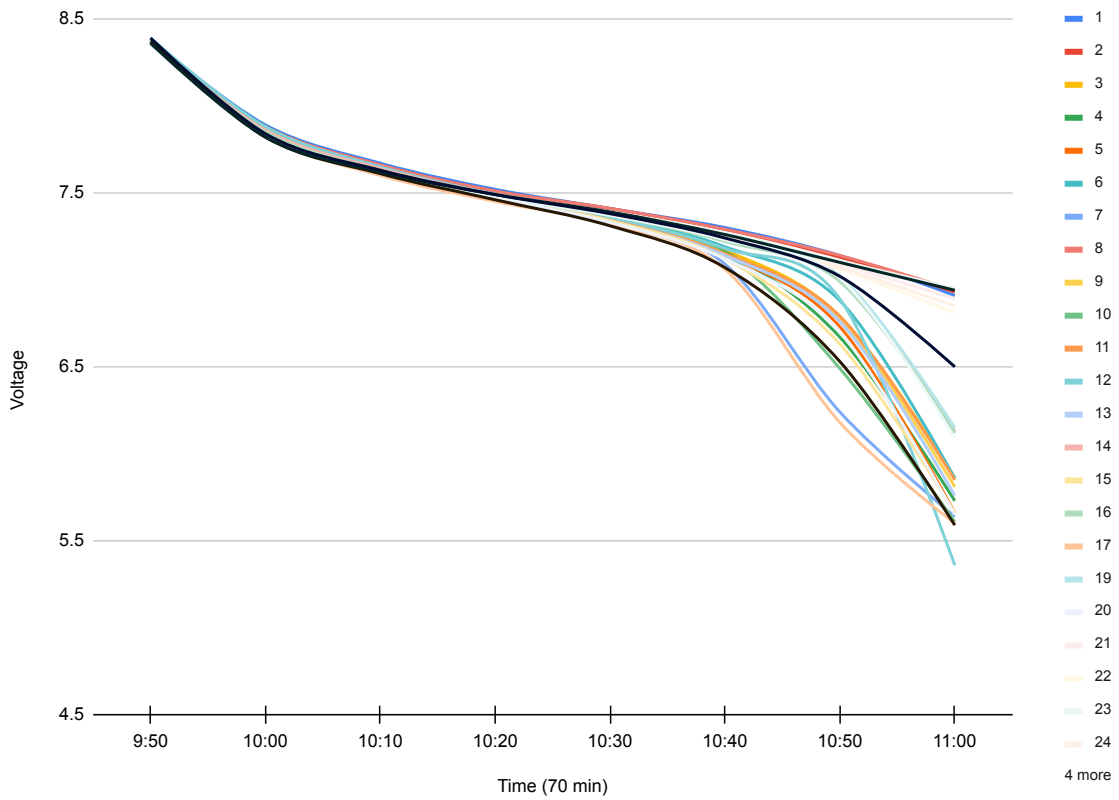


DISC-2 vs DISC-5

1375mAh > Discharge #2 > 3340mAh (243%)

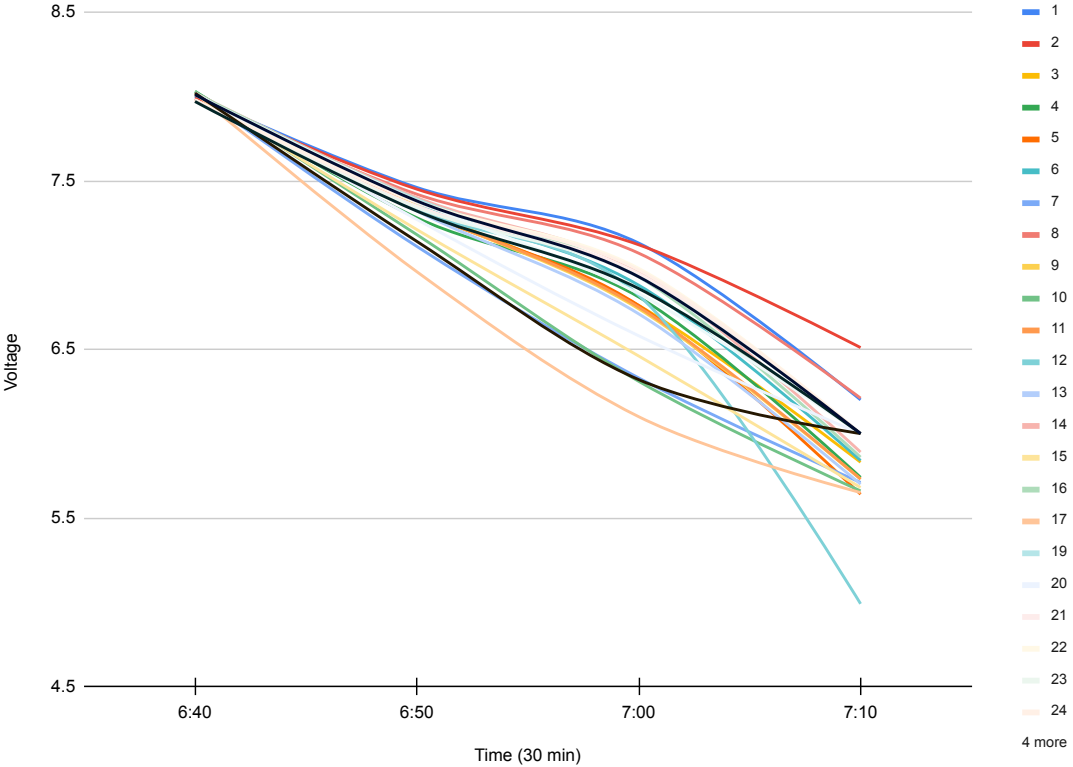


6500mAh > Discharge #5 > 3300mAh (51%)



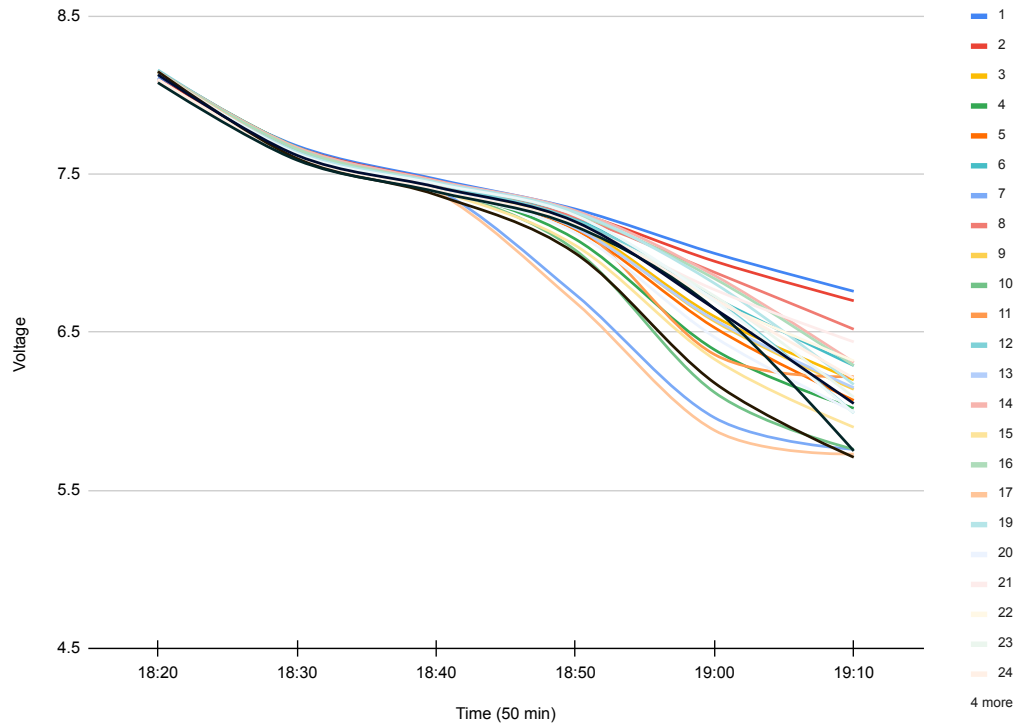
Added 2000mAh to the pack (8V/module)					Start	End	Date:	11/19/2023	DISC-6			
Results are similar to DISC-4					OC	C	Current:	500	mA			
Note: Before the next charging cycle, I individually discharged every module to 6.0V					Time	0:00	4:00	4:00	Duration (t)	Power Input		
					Pack Voltage	187	224	37	Rise (v)	2000	8.00	V/module
0:10:00 Measurement Interval					C / D Rest Time	2:40						
Start					-17	-15	-22	Date:	11/19/2023			
OC					D	D	D	Load:	72 Ohm			
Time	6:40	6:50	7:00	7:10	0:30	Duration (t)	Est. Power (mAh)					
Pack	224	207	192	170	-54	Drop (v)	1368					
1	8.0	7.5	7.1	6.2	-1.8		1381					
2	8.0	7.5	7.1	6.5	-1.5		1410					
3	8.0	7.4	6.8	5.8	-2.2		1347					
4	8.0	7.3	6.8	5.7	-2.3		1339					
5	8.0	7.3	6.8	5.6	-2.4		1327					
6	8.0	7.4	6.9	5.8	-2.2		1348					
7	8.0	7.1	6.3	5.7	-2.3		1335					
8	8.0	7.4	7.1	6.2	-1.8		1380					
9	8.0	7.3	6.7	5.7	-2.3		1337					
10	8.0	7.2	6.3	5.7	-2.4		1331					
11	8.0	7.3	6.8	5.7	-2.3		1337					
12	8.0	7.3	6.8	5.0	-3.0		1265					
13	8.0	7.3	6.7	5.7	-2.3		1334					
14	8.0	7.4	7.0	5.9	-2.1		1352					
15	8.0	7.2	6.5	5.7	-2.3		1332					
16	8.0	7.4	6.9	5.9	-2.2		1349					
17	8.0	7.0	6.1	5.7	-2.4		1329					
18	8.0	7.4	7.0	6.0	-2.0		1359					
19	8.0	7.4	6.9	6.0	-2.0		1362					
20	8.0	7.3	6.6	6.0	-2.0		1363					
21	8.0	7.4	7.0	6.0	-2.0		1358					
22	8.0	7.4	7.0	6.0	-2.0		1359					
23	8.0	7.3	6.9	6.0	-2.0		1358					
24	8.0	7.4	7.0	6.0	-2.0		1359					
25	8.0	7.4	6.8	6.0	-2.0		1362					
26	8.0	7.1	6.3	6.0	-2.0		1363					
27	8.0	7.3	6.9	6.0	-2.0		1358					
28	8.0	7.4	6.9	6.0	-2.0		1362					
Total	224.2	204.9	189.9	164.6	-59.6	1350						
Delta	0.06	0.50	1.03	1.52	Volts							

2000mAh > Discharge #6 > 1370mAh (68%)

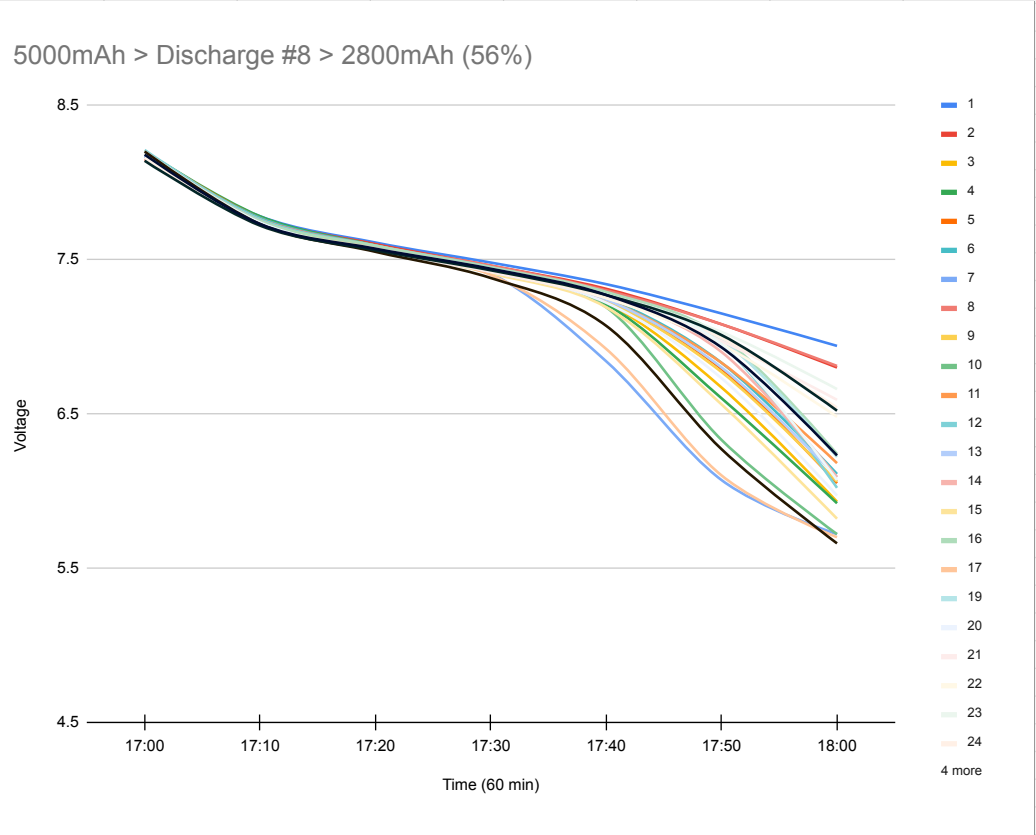


Added 3500mAh to the pack (8.2V/module)							Start		End		Date: 11/19/2023		DISC-7	
No significant improvement in the discharge profile							OC		C		Current: 500		mA	
							Time		9:00		16:00		7:00	
Note: Before the next charging cycle, I individually discharged every module to 5.4V							Pack Voltage		198.9		230		31.1 Rise (v)	
							C / D Rest Time		2:20					
0:10:00 Measurement Interval							Date: 11/19/2023							
Start							-12		-7		-7		-13	
OC							D		D		D		D	
Load:							72		Ohm					
Time	18:20	18:30	18:40	18:50	19:00	19:10	0:50	Duration (t)	Est. Power (mAh)					
Pack	227	215	208	201	188	167	-60	Drop (v)	2280		2332			
1	8.1	7.7	7.5	7.3	7.0	6.8	-1.4		2409					
2	8.1	7.7	7.5	7.3	7.0	6.7	-1.4		2398					
3	8.1	7.7	7.4	7.2	6.6	6.2	-1.9		2324					
4	8.2	7.7	7.4	7.1	6.4	6.0	-2.1		2296					
5	8.1	7.7	7.4	7.2	6.5	6.1	-2.1		2303					
6	8.2	7.7	7.5	7.2	6.7	6.3	-1.9		2340					
7	8.2	7.7	7.4	6.7	6.0	5.8	-2.4		2254					
8	8.1	7.6	7.4	7.2	6.9	6.5	-1.6		2367					
9	8.1	7.7	7.4	7.2	6.6	6.1	-2.0		2314					
10	8.2	7.7	7.4	7.0	6.1	5.8	-2.4		2254					
11	8.2	7.7	7.4	7.2	6.4	6.2	-1.9		2328					
12	8.2	7.7	7.4	7.2	6.7	6.0	-2.2		2293					
13	8.1	7.6	7.4	7.2	6.6	6.2	-2.0		2316					
14	8.2	7.7	7.5	7.3	6.9	6.3	-1.8		2343					
15	8.1	7.6	7.4	7.1	6.3	5.9	-2.2		2275					
16	8.2	7.7	7.5	7.3	6.8	6.3	-1.9		2340					
17	8.2	7.6	7.4	6.7	5.9	5.7	-2.4		2249					
18	8.1	7.6	7.4	7.2	6.7	6.4	-1.7		2340					
19	8.1	7.6	7.5	7.3	6.8	6.2	-2.0		2317					
20	8.2	7.6	7.4	7.1	6.5	6.0	-2.2		2293					
21	8.1	7.6	7.4	7.2	6.8	6.4	-1.7		2354					
22	8.1	7.6	7.4	7.2	6.7	6.3	-1.8		2337					
23	8.1	7.6	7.4	7.2	6.7	6.1	-2.0		2296					
24	8.1	7.6	7.4	7.2	6.7	6.2	-1.9		2319					
25	8.1	7.6	7.4	7.2	6.7	6.0	-2.2		2290					
26	8.2	7.6	7.4	7.0	6.2	5.7	-2.4		2246					
27	8.1	7.6	7.4	7.2	6.7	5.8	-2.3		2241					
28	8.1	7.6	7.4	7.2	6.7	6.1	-2.1		2298					
Total	227.6	213.9	207.8	200.1	184.4	171.9	-55.7		2312					
Delta	0.08	0.09	0.10	0.59	1.12	1.05	Volts							

3500mAh > Discharge #7 >2310mAh (66%)



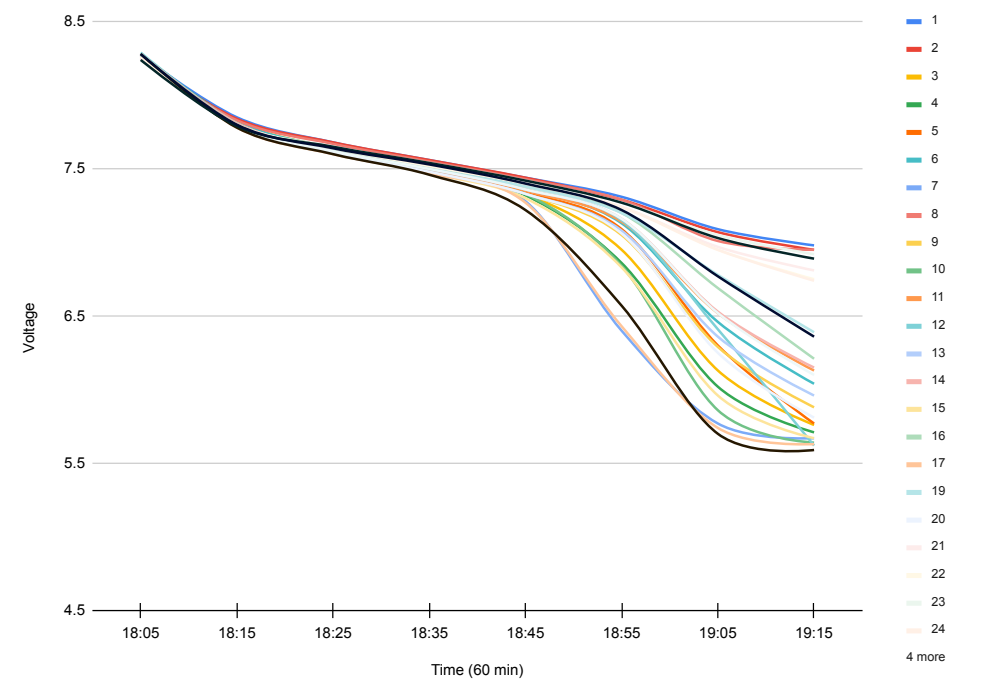
Added 5000mAh to the pack (8.3V/module)										Start	End	Date:	11/20/2023	DISC-8		
No significant improvement in the discharge profile										OC	C	Current:	500	mA		
<i>Note: Before the next charging cycle, I individually discharged every module to 5.4V</i>										Time	0:00	10:00	10:00	Duration (t)	Power Input	
										Pack Voltage	233		Rise (v)	5000	8.32 V/module	
0:10:00 Measurement Interval										C / D Rest Time	7:00					
Start -12 -5 -4 -5 -11 -24 Date: 11/20/2023										Load:	72	Ohm				
Time	OC	D	D	D	D	D	D	1:00	Duration (t)	Est. Power (mAh)						
Pack	229	217	212	208	203	192	168	-61	Drop (v)	2757	2840					
1	8.2	7.8	7.6	7.5	7.3	7.2	6.9	-1.23		2938						
2	8.2	7.8	7.6	7.5	7.3	7.1	6.8	-1.35		2907						
3	8.2	7.8	7.6	7.4	7.2	6.7	5.9	-2.26		2746						
4	8.2	7.8	7.6	7.4	7.2	6.6	5.9	-2.28		2746						
5	8.2	7.8	7.6	7.4	7.2	6.8	6.1	-2.15		2771						
6	8.2	7.8	7.6	7.4	7.3	6.8	6.1	-2.08		2781						
7	8.2	7.8	7.6	7.4	6.8	6.1	5.7	-2.47		2705						
8	8.2	7.8	7.6	7.5	7.3	7.1	6.8	-1.34		2909						
9	8.2	7.8	7.6	7.4	7.2	6.8	6.1	-2.14		2773						
10	8.2	7.8	7.6	7.4	7.2	6.3	5.7	-2.48		2707						
11	8.2	7.8	7.6	7.4	7.2	6.8	6.2	-2.02		2796						
12	8.2	7.8	7.6	7.5	7.3	7.0	6.0	-2.19		2767						
13	8.2	7.8	7.6	7.4	7.2	6.8	6.1	-2.10		2777						
14	8.2	7.8	7.6	7.4	7.3	6.9	6.1	-2.10		2777						
15	8.2	7.7	7.6	7.4	7.2	6.6	5.8	-2.37		2724						
16	8.2	7.8	7.6	7.5	7.3	7.0	6.2	-1.96		2808						
17	8.2	7.7	7.6	7.4	6.9	6.1	5.7	-2.50		2703						
18	8.2	7.7	7.6	7.4	7.3	7.0	6.6	-1.59		2860						
19	8.2	7.7	7.6	7.4	7.3	7.0	6.2	-1.96		2800						
20	8.2	7.7	7.6	7.4	7.2	6.7	6.0	-2.23		2755						
21	8.1	7.7	7.6	7.4	7.3	7.0	6.6	-1.55		2864						
22	8.2	7.7	7.6	7.4	7.3	7.0	6.5	-1.68		2847						
23	8.1	7.7	7.6	7.4	7.3	7.0	6.7	-1.48		2878						
24	8.2	7.7	7.6	7.4	7.3	7.0	6.5	-1.62		2858						
25	8.2	7.7	7.6	7.4	7.3	7.0	6.1	-2.12		2773						
26	8.2	7.7	7.6	7.4	7.1	6.3	5.7	-2.54		2695						
27	8.1	7.7	7.6	7.4	7.3	7.0	6.5	-1.62		2851						
28	8.2	7.7	7.6	7.4	7.3	6.9	6.2	-1.95		2802						
Total	229.1	216.9	212.1	208.1	202.2	190.3	173.7	-55.4		2797						
Delta	0.07	0.06	0.06	0.10	0.50	1.08	1.28	Volts								



Added 6500mAh to the pack (8.4V/module)																				
Compared with DISC-5, the discharge profile appears to be degrading!																				
One good thing is that the pack only reached 235V for the same charge input as DISC-5 (240V)																				
This is where I stopped. One final charge of 6500mAh (234V) followed by a discharge to 224V, then reinstalled the battery																				
Note: Before the final charge, I discharged the pack to 151V and individually discharged every module to 5.4V																				
0:10:00 Measurement Interval																				
Start	-12	-5	-4	-4	-7	-14	-18	Date:	11/21/2023											
OC	D	D	D	D	D	D	D	Load:	72	Ohm										
Time	18:05	18:15	18:25	18:35	18:45	18:55	19:05	19:15	1:10	Duration (t)	Est. Power (mAh)									
Pack	232	220	215	211	207	200	186	168	-64	Drop (v)	3238	3283								
1	8.3	7.9	7.7	7.6	7.4	7.3	7.1	7.0	-1.29		3459									
2	8.3	7.8	7.7	7.6	7.4	7.3	7.1	7.0	-1.30		3448									
3	8.3	7.8	7.6	7.5	7.3	7.0	6.1	5.8	-2.51		3183									
4	8.3	7.8	7.6	7.5	7.3	6.9	6.0	5.7	-2.57		3174									
5	8.3	7.8	7.6	7.5	7.3	7.1	6.3	5.8	-2.50		3185									
6	8.3	7.8	7.6	7.5	7.4	7.1	6.5	6.0	-2.24		3249									
7	8.3	7.8	7.6	7.5	7.3	6.4	5.8	5.7	-2.61		3165									
8	8.3	7.8	7.7	7.6	7.4	7.3	7.0	7.0	-1.30		3448									
9	8.3	7.8	7.6	7.5	7.3	7.1	6.3	5.9	-2.40		3212									
10	8.3	7.8	7.6	7.5	7.3	6.8	5.9	5.6	-2.64		3158									
11	8.3	7.8	7.6	7.5	7.4	7.1	6.5	6.1	-2.15		3269									
12	8.3	7.8	7.6	7.5	7.4	7.2	6.4	5.6	-2.67		3156									
13	8.3	7.8	7.6	7.5	7.3	7.1	6.4	6.0	-2.32		3230									
14	8.3	7.8	7.6	7.5	7.4	7.2	6.5	6.2	-2.13		3273									
15	8.3	7.8	7.6	7.5	7.3	6.8	6.0	5.7	-2.60		3162									
16	8.3	7.8	7.6	7.5	7.4	7.2	6.7	6.2	-2.07		3287									
17	8.3	7.8	7.6	7.5	7.3	6.4	5.7	5.6	-2.65		3156									
18	8.3	7.8	7.7	7.5	7.4	7.3	7.0	6.8	-1.45		3414									
19	8.3	7.8	7.6	7.5	7.4	7.2	6.8	6.4	-1.88		3326									
20	8.3	7.8	7.6	7.5	7.3	7.1	6.3	5.8	-2.47		3196									
21	8.3	7.8	7.6	7.5	7.4	7.2	7.0	6.8	-1.44		3416									
22	8.3	7.8	7.6	7.5	7.4	7.2	7.0	6.8	-1.51		3405									
23	8.2	7.8	7.7	7.5	7.4	7.3	7.1	6.9	-1.32		3439									
24	8.3	7.8	7.6	7.5	7.4	7.2	7.0	6.7	-1.52		3403									
25	8.3	7.8	7.6	7.5	7.4	7.2	6.5	6.1	-2.18		3262									
26	8.3	7.8	7.6	7.5	7.2	6.6	5.7	5.6	-2.69		3146									
27	8.2	7.8	7.7	7.5	7.4	7.3	7.0	6.9	-1.35		3432									
28	8.3	7.8	7.6	7.5	7.4	7.2	6.8	6.4	-1.92		3321									
Total	231.6	218.5	213.7	210.2	206.1	197.9	182.2	173.9	-57.7		3285									
Delta	0.05	0.07	0.08	0.10	0.22	0.91	1.39	1.39	Volts											

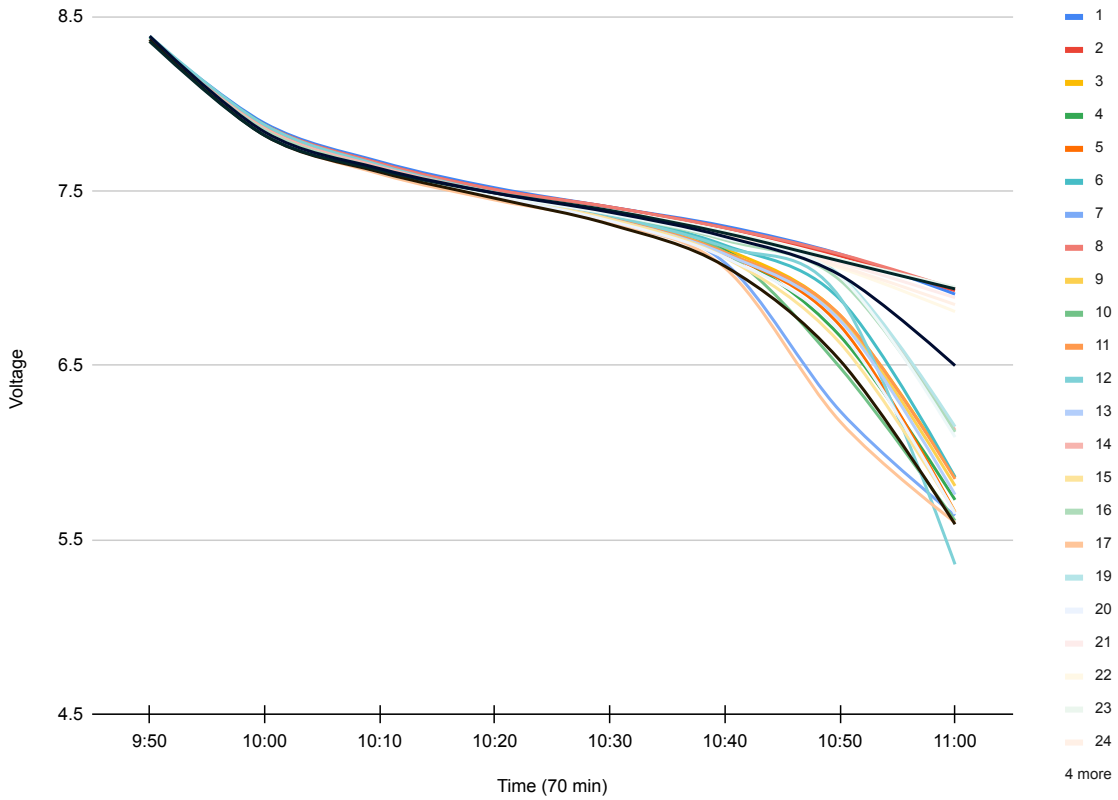
Start	OC	End	C	Date:	11/21/2023															
Time	0:00	13:00	13:00	Duration (t)	Power Input															
Pack Voltage			235	Rise (v)	6500	8.39	V/module													
C / D Rest Time	5:05																			

6500mAh > Discharge #9 > 3285mAh (50%)



DISC-5 vs DISC-9

6500mAh > Discharge #5 > 3300mAh (51%)



6500mAh > Discharge #9 > 3285mAh (50%)

