

50ahIfp.pdf

Device : 1

Channel : 3

Sub Device : 1

Start Test Time : 2023-05-03 10:45:00

End Test Time :

Nda File Name : D:\7.5.4\NdaData\160001-1-3-6571.nda

Unit List

Current	Voltage	Capacity	Capacity Density	Energy	CmpEng	IR	Temperature	Time
A	V	Ah	Ah/kg	mWh	mWh/g	m	° C	Auto

Test Information

Start Step ID : 1

Upper-limit Voltage : 3.7000(V)

P/N : 2023-05-03 10-44-59

Cycle counts : -

Lower-limit Voltage : 2.4000(V)

Creator : -

Upper-limit temperature : -

Upper-limit Current : -

Remark :

Voltage Measuring-range : 5V

Lower-limit Current : -

Record Condition : 60000.0ms/0.0000V/0.0000A

Current Measuring-range : +20000/-20000mA

Start-up Time : 2023-05-03 10:45:00

Battery Barcode :

Step setting scheme

Step ID	Time(h:min:s.ms)	Current(A)	Energy(mWh)	Power(mW)	Capacity(Ah)	Aux Record Condition	Min Vi(V)	Min Ti(oC)	Record Condition2	Single-cell Voltage	Stop Condition(V)
Step Name	Voltage(V)	End Current (A)	Change-limit Voltage(V)	Resistance(m )	Record Condition	Max Vi(V)	Max Ti(oC)	Record Condition1	Record Condition3		
1	0:01:00.000										
Rest											
2		12.0000000				60000.0ms/0.0000V/0.0000A					
CCCV_Chg	3.6500	0.2000				60000.0ms/0.0000V/0.0000A					
3	0:02:00.000										
Rest						60000.0ms/0.0000V/0.0000A					
4		12.0000000									
CC_DChg	2.5000					60000.0ms/0.0000V/0.0000A					
5	0:02:00.000										
Rest						60000.0ms/0.0000V/0.0000A					
6		12.0000000									
CCCV_Chg	3.6500	0.2000				60000.0ms/0.0000V/0.0000A					
7											
End											

Cycle Data

Cycle ID	Cap_Chg(Ah)	Cap_DChg(Ah)	Chg/DChg Efficiency(%)	Engy_Chg(mWh)	Engy_DChg(mWh)
1	0.2098	51.4209	24513.508	756.0	165374.0
2	51.3893	0.0000	0.000	171639.7	0.0

Step Data

Cycle ID	Step ID	Step Name	Step Time(h:min:s.ms)	Capacity(Ah)	Energy(mWh)	Start Voltage(V)	End Voltage(V)	Charge Mid-Vol(V)	Discharge Mid-Vol(V)
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1	1	Rest	0:00:48.000	0.0000	0.0	3.4322	3.4108	0.0000	0.0000
1	2	CCCV_Chg	0:08:26.000	0.2098	756.0	3.4309	3.6501	3.6501	0.0000
1	3	Rest	0:02:00.000	0.0000	0.0	3.6495	3.6232	0.0000	0.0000
1	4	CC_DChg	4:17:09.000	51.4209	165374.0	3.5946	2.5000	0.0000	3.2415
1	5	Rest	0:02:00.000	0.0000	0.0	2.5170	2.6729	0.0000	0.0000
2	6	CCCV_Chg	4:24:38.000	51.3893	171639.7	2.6909	3.6501	3.3519	0.0000

## Record Data

Cycle ID	Step ID	Record ID	Time(h:min:s.ms)	Voltage(V)	Current (A)	Capacity(Ah)	Energy(mWh)	Realtime
1	1	1	0:00:00.000	3.4322	0.0000	0.0000	0.0	2023-05-03 11:45:08
1	1	2	0:00:48.000	3.4108	0.0000	0.0000	0.0	2023-05-03 10:45:56
1	2	3	0:00:00.000	3.4309	12.0002	0.0000	0.0	2023-05-03 10:45:58
1	2	4	0:01:00.000	3.6501	2.7294	0.1266	452.6	2023-05-03 10:46:58
1	2	5	0:02:00.000	3.6501	1.2896	0.1575	565.1	2023-05-03 10:47:58
1	2	6	0:02:59.000	3.6501	0.8072	0.1740	625.5	2023-05-03 10:48:58
1	2	7	0:03:59.000	3.6501	0.5567	0.1851	666.1	2023-05-03 10:49:58
1	2	8	0:04:59.000	3.6501	0.4129	0.1931	695.2	2023-05-03 10:50:58
1	2	9	0:05:59.000	3.6501	0.3236	0.1992	717.5	2023-05-03 10:51:58
1	2	10	0:06:59.000	3.6501	0.2591	0.2041	735.4	2023-05-03 10:52:58
1	2	11	0:07:59.000	3.6501	0.2132	0.2082	750.2	2023-05-03 10:53:58
1	2	12	0:08:26.000	3.6501	0.1959	0.2098	756.0	2023-05-03 10:54:24
1	3	13	0:00:00.000	3.6495	0.0000	0.0000	0.0	2023-05-03 10:54:25
1	3	14	0:01:00.000	3.6340	0.0000	0.0000	0.0	2023-05-03 10:55:25
1	3	15	0:02:00.000	3.6232	0.0000	0.0000	0.0	2023-05-03 10:56:25
1	4	16	0:00:00.000	3.5946	-11.9977	0.0000	0.0	2023-05-03 10:56:26
1	4	17	0:00:59.000	3.2973	-11.9977	0.1966	664.4	2023-05-03 10:57:26
1	4	18	0:02:00.000	3.2821	-11.9977	0.3999	1332.6	2023-05-03 10:58:26
1	4	19	0:02:59.000	3.2809	-11.9977	0.5966	1977.8	2023-05-03 10:59:26
1	4	20	0:03:59.000	3.2809	-11.9977	0.7965	2633.8	2023-05-03 11:00:26
1	4	21	0:04:59.000	3.2809	-11.9977	0.9965	3289.9	2023-05-03 11:01:26
1	4	22	0:05:59.000	3.2809	-11.9977	1.1964	3945.9	2023-05-03 11:02:26
1	4	23	0:06:58.000	3.2809	-11.9977	1.3931	4591.1	2023-05-03 11:03:26
1	4	24	0:07:58.000	3.2812	-11.9977	1.5930	5247.1	2023-05-03 11:04:26
1	4	25	0:08:58.000	3.2812	-11.9977	1.7930	5903.3	2023-05-03 11:05:26
1	4	26	0:09:58.000	3.2812	-11.9977	1.9930	6559.4	2023-05-03 11:06:26

1		27		3.2812		2.1929		2023-05-03 11:07:26
1	4	28	0:10:58.000	3.2815	-11.9977	2.3962	7215.5	2023-05-03 11:08:26
1	4	29	0:11:59.000	3.2815	-11.9977	2.5962	7882.6	2023-05-03 11:09:26
1	4	30	0:12:59.000	3.2815	-11.9977	2.7961	8538.7	2023-05-03 11:10:26
1	4	31	0:13:59.000	3.2815	-11.9977	2.9961	9194.9	2023-05-03 11:11:26
1	4	32	0:14:59.000	3.2818	-11.9977	3.1927	9851.1	2023-05-03 11:12:26
1	4	33	0:15:58.000	3.2818	-11.9977	3.3927	10496.3	2023-05-03 11:13:26
1	4	34	0:16:58.000	3.2818	-11.9977	3.5960	11152.5	2023-05-03 11:14:26
1	4	35	0:17:59.000	3.2818	-11.9977	3.7926	11819.7	2023-05-03 11:15:26
1	4	36	0:18:58.000	3.2818	-11.9977	3.9926	12465.0	2023-05-03 11:16:26
1	4	37	0:19:58.000	3.2818	-11.9977	4.1925	13121.2	2023-05-03 11:17:26
1	4	38	0:20:58.000	3.2818	-11.9977	4.3925	13777.5	2023-05-03 11:18:26
1	4	39	0:21:58.000	3.2818	-11.9977	4.5925	14433.7	2023-05-03 11:19:26
1	4	40	0:22:58.000	3.2818	-11.9977	4.7924	15089.9	2023-05-03 11:20:26
1	4	41	0:23:58.000	3.2818	-11.9977	4.9924	15746.2	2023-05-03 11:21:26
1	4	42	0:24:58.000	3.2818	-11.9977	5.1923	16402.4	2023-05-03 11:22:26
1	4	43	0:25:58.000	3.2818	-11.9977	5.3956	17058.6	2023-05-03 11:23:26
1	4	44	0:26:59.000	3.2818	-11.9977	5.5956	17725.8	2023-05-03 11:24:26
1	4	45	0:27:59.000	3.2815	-11.9977	5.7922	18382.0	2023-05-03 11:25:26
1	4	46	0:28:58.000	3.2815	-11.9977	5.9922	19027.3	2023-05-03 11:26:26
1	4	47	0:29:58.000	3.2815	-11.9977	6.1955	19683.5	2023-05-03 11:27:26
1	4	48	0:30:59.000	3.2815	-11.9977	6.3921	20350.6	2023-05-03 11:28:26
1	4	49	0:31:58.000	3.2815	-11.9977	6.5921	20995.8	2023-05-03 11:29:26
1	4	50	0:32:58.000	3.2812	-11.9977	6.7920	21652.0	2023-05-03 11:30:26
1	4	51	0:33:58.000	3.2812	-11.9977	6.9920	22308.1	2023-05-03 11:31:26
1	4	52	0:34:58.000	3.2812	-11.9977	7.1920	22964.3	2023-05-03 11:32:26
1	4	53	0:35:58.000	3.2809	-11.9977	7.3953	23620.4	2023-05-03 11:33:26
1	4	54	0:36:59.000	3.2809	-11.9977	7.5919	24287.4	2023-05-03 11:34:26
1	4	55	0:37:58.000	3.2809	-11.9977	7.7952	24932.5	2023-05-03 11:35:26
1	4	56	0:38:59.000	3.2806	-11.9977	7.9918	25599.5	2023-05-03 11:36:26
1	4	57	0:39:58.000	3.2803	-11.9977	8.1918	26244.6	2023-05-03 11:37:26
1	4	58	0:40:58.000	3.2803	-11.9977	8.3917	26900.6	2023-05-03 11:38:26
1	4	59	0:41:58.000	3.2800	-11.9977	8.5917	27556.5	2023-05-03 11:39:26
1	4	60	0:42:58.000	3.2800	-11.9977	8.7917	28212.4	2023-05-03 11:40:26
1	4	61	0:43:58.000	3.2796	-11.9977	8.9916	28868.3	2023-05-03 11:41:26
1	4	62	0:44:58.000	3.2796	-11.9977	9.1916	29524.1	2023-05-03 11:42:26
	4		0:45:58.000		-11.9977		30179.9	

1		63		3.2790		9.3915		2023-05-03 11:43:26
1	4	64	0:46:58.000	3.2787	-11.9977	9.5915	30835.6	2023-05-03 11:44:26
1	4	65	0:47:58.000	3.2784	-11.9990	9.7915	31491.2	2023-05-03 11:45:26
1	4	66	0:48:58.000	3.2781	-11.9977	9.9914	32146.8	2023-05-03 11:46:26
1	4	67	0:49:58.000	3.2778	-11.9977	10.1914	32802.4	2023-05-03 11:47:26
1	4	68	0:50:58.000	3.2778	-11.9977	10.3914	33457.9	2023-05-03 11:48:26
1	4	69	0:51:58.000	3.2775	-11.9977	10.5913	34113.3	2023-05-03 11:49:26
1	4	70	0:52:58.000	3.2769	-11.9977	10.7946	34768.7	2023-05-03 11:50:26
1	4	71	0:53:59.000	3.2765	-11.9977	10.9912	35434.9	2023-05-03 11:51:26
1	4	72	0:54:58.000	3.2762	-11.9977	11.1945	36079.2	2023-05-03 11:52:26
1	4	73	0:55:59.000	3.2759	-11.9977	11.3912	36745.3	2023-05-03 11:53:26
1	4	74	0:56:58.000	3.2756	-11.9977	11.5911	37389.5	2023-05-03 11:54:26
1	4	75	0:57:58.000	3.2750	-11.9977	11.7911	38044.5	2023-05-03 11:55:26
1	4	76	0:58:58.000	3.2747	-11.9977	11.9944	38699.4	2023-05-03 11:56:26
1	4	77	0:59:59.000	3.2741	-11.9977	12.1910	39365.2	2023-05-03 11:57:26
1	4	78	1:00:58.000	3.2738	-11.9977	12.3910	40009.0	2023-05-03 11:58:26
1	4	79	1:01:58.000	3.2731	-11.9977	12.5909	40663.7	2023-05-03 11:59:26
1	4	80	1:02:58.000	3.2728	-11.9977	12.7909	41318.2	2023-05-03 12:00:26
1	4	81	1:03:58.000	3.2722	-11.9977	12.9909	41972.7	2023-05-03 12:01:26
1	4	82	1:04:58.000	3.2716	-11.9977	13.1908	42627.0	2023-05-03 12:02:26
1	4	83	1:05:58.000	3.2710	-11.9977	13.3908	43281.3	2023-05-03 12:03:26
1	4	84	1:06:58.000	3.2703	-11.9977	13.5907	43935.4	2023-05-03 12:04:26
1	4	85	1:07:58.000	3.2697	-11.9977	13.7907	44589.4	2023-05-03 12:05:26
1	4	86	1:08:58.000	3.2688	-11.9977	13.9907	45243.2	2023-05-03 12:06:26
1	4	87	1:09:58.000	3.2679	-11.9977	14.1906	45897.0	2023-05-03 12:07:26
1	4	88	1:10:58.000	3.2672	-11.9977	14.3906	46550.6	2023-05-03 12:08:26
1	4	89	1:11:58.000	3.2663	-11.9977	14.5939	47204.0	2023-05-03 12:09:26
1	4	90	1:12:59.000	3.2657	-11.9977	14.7905	47868.1	2023-05-03 12:10:26
1	4	91	1:13:58.000	3.2651	-11.9977	14.9905	48510.3	2023-05-03 12:11:26
1	4	92	1:14:58.000	3.2641	-11.9977	15.1904	49163.3	2023-05-03 12:12:26
1	4	93	1:15:58.000	3.2635	-11.9977	15.3937	49816.1	2023-05-03 12:13:26
1	4	94	1:16:59.000	3.2629	-11.9977	15.5904	50479.6	2023-05-03 12:14:26
1	4	95	1:17:58.000	3.2620	-11.9977	15.7903	51121.2	2023-05-03 12:15:26
1	4	96	1:18:58.000	3.2614	-11.9977	15.9903	51773.6	2023-05-03 12:16:26
1	4	97	1:19:58.000	3.2607	-11.9977	16.1902	52425.8	2023-05-03 12:17:26
1	4	98	1:20:58.000	3.2601	-11.9977	16.3902	53077.8	2023-05-03 12:18:26
	4		1:21:58.000		-11.9977		53729.8	

1		99		3.2592		16.5902		2023-05-03 12:19:26
1	4	100	1:22:58.000	3.2586	-11.9977	16.7935	54381.6	2023-05-03 12:20:26
1	4	101	1:23:59.000	3.2583	-11.9977	16.9901	55044.1	2023-05-03 12:21:26
1	4	102	1:24:58.000	3.2576	-11.9977	17.1901	55684.8	2023-05-03 12:22:26
1	4	103	1:25:58.000	3.2567	-11.9977	17.3900	56336.3	2023-05-03 12:23:26
1	4	104	1:26:58.000	3.2561	-11.9977	17.5900	56987.6	2023-05-03 12:24:26
1	4	105	1:27:58.000	3.2555	-11.9977	17.7899	57638.7	2023-05-03 12:25:26
1	4	106	1:28:58.000	3.2552	-11.9977	17.9899	58289.8	2023-05-03 12:26:26
1	4	107	1:29:58.000	3.2545	-11.9977	18.1899	58940.7	2023-05-03 12:27:26
1	4	108	1:30:58.000	3.2542	-11.9977	18.3898	59591.6	2023-05-03 12:28:26
1	4	109	1:31:58.000	3.2539	-11.9977	18.5898	60242.3	2023-05-03 12:29:26
1	4	110	1:32:58.000	3.2533	-11.9977	18.7897	60893.0	2023-05-03 12:30:26
1	4	111	1:33:58.000	3.2530	-11.9977	18.9897	61543.6	2023-05-03 12:31:26
1	4	112	1:34:58.000	3.2527	-11.9977	19.1897	62194.1	2023-05-03 13:32:26
1	4	113	1:35:58.000	3.2521	-11.9977	19.3896	62844.5	2023-05-03 12:33:26
1	4	114	1:36:58.000	3.2517	-11.9977	19.5896	63494.9	2023-05-03 12:34:26
1	4	115	1:37:58.000	3.2514	-11.9977	19.7896	64145.2	2023-05-03 12:35:26
1	4	116	1:38:58.000	3.2511	-11.9977	19.9895	64795.4	2023-05-03 12:36:26
1	4	117	1:39:58.000	3.2508	-11.9977	20.1895	65445.5	2023-05-03 12:37:26
1	4	118	1:40:58.000	3.2505	-11.9977	20.3894	66095.6	2023-05-03 12:38:26
1	4	119	1:41:58.000	3.2502	-11.9977	20.5894	66745.6	2023-05-03 12:39:26
1	4	120	1:42:58.000	3.2502	-11.9977	20.7927	67395.6	2023-05-03 12:40:26
1	4	121	1:43:59.000	3.2499	-11.9977	20.9927	68056.4	2023-05-03 12:41:26
1	4	122	1:44:59.000	3.2496	-11.9977	21.1893	68706.2	2023-05-03 12:42:26
1	4	123	1:45:58.000	3.2493	-11.9977	21.3926	69345.2	2023-05-03 12:43:26
1	4	124	1:46:59.000	3.2490	-11.9977	21.5892	70005.7	2023-05-03 12:44:26
1	4	125	1:47:58.000	3.2486	-11.9977	21.7892	70644.6	2023-05-03 12:45:26
1	4	126	1:48:58.000	3.2480	-11.9977	21.9891	71294.2	2023-05-03 12:46:26
1	4	127	1:49:58.000	3.2477	-11.9977	22.1891	71943.7	2023-05-03 12:47:26
1	4	128	1:50:58.000	3.2477	-11.9977	22.3891	72593.2	2023-05-03 12:48:26
1	4	129	1:51:58.000	3.2474	-11.9977	22.5890	73242.6	2023-05-03 12:49:26
1	4	130	1:52:58.000	3.2468	-11.9977	22.7890	73892.0	2023-05-03 12:50:26
1	4	131	1:53:58.000	3.2465	-11.9977	22.9889	74541.3	2023-05-03 12:51:26
1	4	132	1:54:58.000	3.2462	-11.9977	23.1889	75190.5	2023-05-03 12:52:26
1	4	133	1:55:58.000	3.2455	-11.9977	23.3889	75839.7	2023-05-03 12:53:26
1	4	134	1:56:58.000	3.2452	-11.9977	23.5922	76488.7	2023-05-03 12:54:26
1	4		1:57:59.000		-11.9977		77148.5	

1		135		3.2449		23.7888		2023-05-03 12:55:26
1	4	136	1:58:58.000	3.2446	-11.9977	23.9888	77786.6	2023-05-03 12:56:26
1	4	137	1:59:58.000	3.2443	-11.9977	24.1887	78435.4	2023-05-03 12:57:26
1	4	138	2:00:58.000	3.2440	-11.9977	24.3887	79084.2	2023-05-03 12:58:26
1	4	139	2:01:58.000	3.2434	-11.9977	24.5886	79732.9	2023-05-03 12:59:26
1	4	140	2:02:58.000	3.2431	-11.9977	24.7886	80381.5	2023-05-03 13:00:26
1	4	141	2:03:58.000	3.2428	-11.9977	24.9886	81030.0	2023-05-03 13:01:26
1	4	142	2:04:58.000	3.2424	-11.9977	25.1919	81678.5	2023-05-03 13:02:26
1	4	143	2:05:59.000	3.2421	-11.9977	25.3885	82337.7	2023-05-03 13:03:26
1	4	144	2:06:58.000	3.2418	-11.9977	25.5884	82975.2	2023-05-03 13:04:26
1	4	145	2:07:58.000	3.2415	-11.9977	25.7884	83623.5	2023-05-03 13:05:26
1	4	146	2:08:58.000	3.2412	-11.9977	25.9884	84271.7	2023-05-03 13:06:26
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1	4	203	3:05:58.000	3.2093	-11.9990	37.3830	121084.7	2023-05-03 14:03:26
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2	6	323	0:42:56.000	3.2964	12.0014	8.7909	27492.3	2023-05-03 15:59:40
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2	6	486	3:25:48.000	3.3888	12.0014	41.3623	136743.8	2023-05-03 18:42:40
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2	6	488	3:27:48.000	3.3894	12.0014	41.7624	138099.4	2023-05-03 18:44:40
2	6	489	3:28:48.000	3.3897	12.0002	41.9591	138777.3	2023-05-03 18:45:40
2	6	490	3:29:47.000	3.3900	12.0014	42.1624	139443.9	2023-05-03 18:46:40
2	6	491	3:30:48.000	3.3903	12.0014	42.3591	140133.2	2023-05-03 18:47:40
2	6	492	3:31:47.000	3.3903	12.0014	42.5591	140800.0	2023-05-03 18:48:40
2	6	493	3:32:47.000	3.3909	12.0014	42.7591	141478.1	2023-05-03 18:49:40
2	6	494	3:33:47.000	3.3916	12.0014	42.9592	142156.3	2023-05-03 18:50:40
2	6		3:34:47.000		12.0014		142834.6	

2		495		3.3919		43.1592		2023-05-03 18:51:40
2	6	496	3:35:47.000	3.3922	12.0002	43.3592	143513.0	2023-05-03 18:52:40
2	6	497	3:36:47.000	3.3925	12.0002	43.5625	144191.5	2023-05-03 18:53:40
2	6	498	3:37:48.000	3.3928	12.0002	43.7592	144881.3	2023-05-03 18:54:40
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2	6	500	3:39:47.000	3.3937	12.0014	44.1593	146227.3	2023-05-03 18:56:40
2	6	501	3:40:47.000	3.3940	12.0014	44.3593	146906.1	2023-05-03 18:57:40
2	6	502	3:41:47.000	3.3947	12.0014	44.5593	147584.9	2023-05-03 18:58:40
2	6	503	3:42:47.000	3.3950	12.0014	44.7593	148263.8	2023-05-03 18:59:40
2	6	504	3:43:47.000	3.3956	12.0014	44.9593	148942.8	2023-05-03 19:00:40
2	6	505	3:44:47.000	3.3959	12.0014	45.1594	149622.0	2023-05-03 19:01:40
2	6	506	3:45:47.000	3.3965	12.0002	45.3560	150301.2	2023-05-03 19:02:40
2	6	507	3:46:46.000	3.3971	12.0014	45.5527	150969.1	2023-05-03 19:03:40
2	6	508	3:47:45.000	3.3975	12.0014	45.7527	151637.2	2023-05-03 19:04:40
2	6	509	3:48:45.000	3.3981	12.0002	45.9528	152316.7	2023-05-03 19:05:40
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2	6	511	3:50:45.000	3.3993	12.0014	46.3528	153676.1	2023-05-03 19:07:40
2	6	512	3:51:45.000	3.3999	12.0002	46.5528	154355.9	2023-05-03 19:08:40
2	6	513	3:52:45.000	3.4009	12.0014	46.7528	155035.9	2023-05-03 19:09:40
2	6	514	3:53:45.000	3.4015	12.0014	46.9528	155716.0	2023-05-03 19:10:40
2	6	515	3:54:45.000	3.4024	12.0002	47.1529	156396.3	2023-05-03 19:11:40
2	6	516	3:55:45.000	3.4033	12.0014	47.3529	157076.8	2023-05-03 19:12:40
2	6	517	3:56:45.000	3.4043	12.0002	47.5529	157757.4	2023-05-03 19:13:40
2	6	518	3:57:45.000	3.4052	12.0014	47.7496	158438.2	2023-05-03 19:14:40
2	6	519	3:58:44.000	3.4061	12.0014	47.9496	159107.9	2023-05-03 19:15:40
2	6	520	3:59:44.000	3.4074	12.0002	48.1496	159789.1	2023-05-03 19:16:40
2	6	521	4:00:44.000	3.4086	12.0002	48.3496	160470.5	2023-05-03 19:17:40
2	6	522	4:01:44.000	3.4099	12.0014	48.5497	161152.1	2023-05-03 19:18:40
2	6	523	4:02:44.000	3.4114	12.0014	48.7497	161834.0	2023-05-03 19:19:40
2	6	524	4:03:44.000	3.4136	12.0014	48.9497	162516.2	2023-05-03 19:20:40
2	6	525	4:04:44.000	3.4154	12.0002	49.1530	163198.8	2023-05-03 19:21:40
2	6	526	4:05:45.000	3.4176	12.0014	49.3497	163893.1	2023-05-03 19:22:40
2	6	527	4:06:44.000	3.4201	12.0014	49.5497	164565.0	2023-05-03 19:23:40
2	6	528	4:07:44.000	3.4229	12.0014	49.7498	165248.8	2023-05-03 19:24:40
2	6	529	4:08:44.000	3.4269	12.0014	49.9531	165933.1	2023-05-03 19:25:40
2	6	530	4:09:45.000	3.4309	12.0014	50.1531	166629.6	2023-05-03 19:26:40
	6		4:10:45.000		12.0014		167315.4	



2		531		3.4368		50.3498		2023-05-03 19:27:40
2	6	532	4:11:44.000	3.4449	12.0014	50.5498	167990.7	2023-05-03 19:28:40
2	6	533	4:12:44.000	3.4585	12.0002	50.7498	168678.9	2023-05-03 19:29:40
2	6	534	4:13:44.000	3.4864	12.0014	50.9498	169369.1	2023-05-03 19:30:40
2	6	535	4:14:44.000	3.5835	12.0014	51.1532	170063.2	2023-05-03 19:31:40
2	6	536	4:15:45.000	3.6501	12.0014	51.2823	170779.8	2023-05-03 19:32:40
2	6	537	4:16:44.000	3.6501	3.8442	51.3255	171248.9	2023-05-03 19:33:40
2	6	538	4:17:45.000	3.6501	1.7063	51.3467	171406.7	2023-05-03 19:34:40
2	6	539	4:18:44.000	3.6501	0.9759	51.3600	171484.0	2023-05-03 19:35:40
2	6	540	4:19:44.000	3.6501	0.6460	51.3692	171532.6	2023-05-03 19:36:40
2	6	541	4:20:44.000	3.6501	0.4675	51.3762	171566.3	2023-05-03 19:37:40
2	6	542	4:21:45.000	3.6501	0.3621	51.3815	171591.7	2023-05-03 19:38:40
2	6	543	4:22:44.000	3.6501	0.2839	51.3859	171611.1	2023-05-03 19:39:40
2	6	544	4:23:44.000	3.6501	0.2368	51.3893	171627.3	2023-05-03 19:40:33
2	6		4:24:38.000		0.1897		171639.7	

Curver

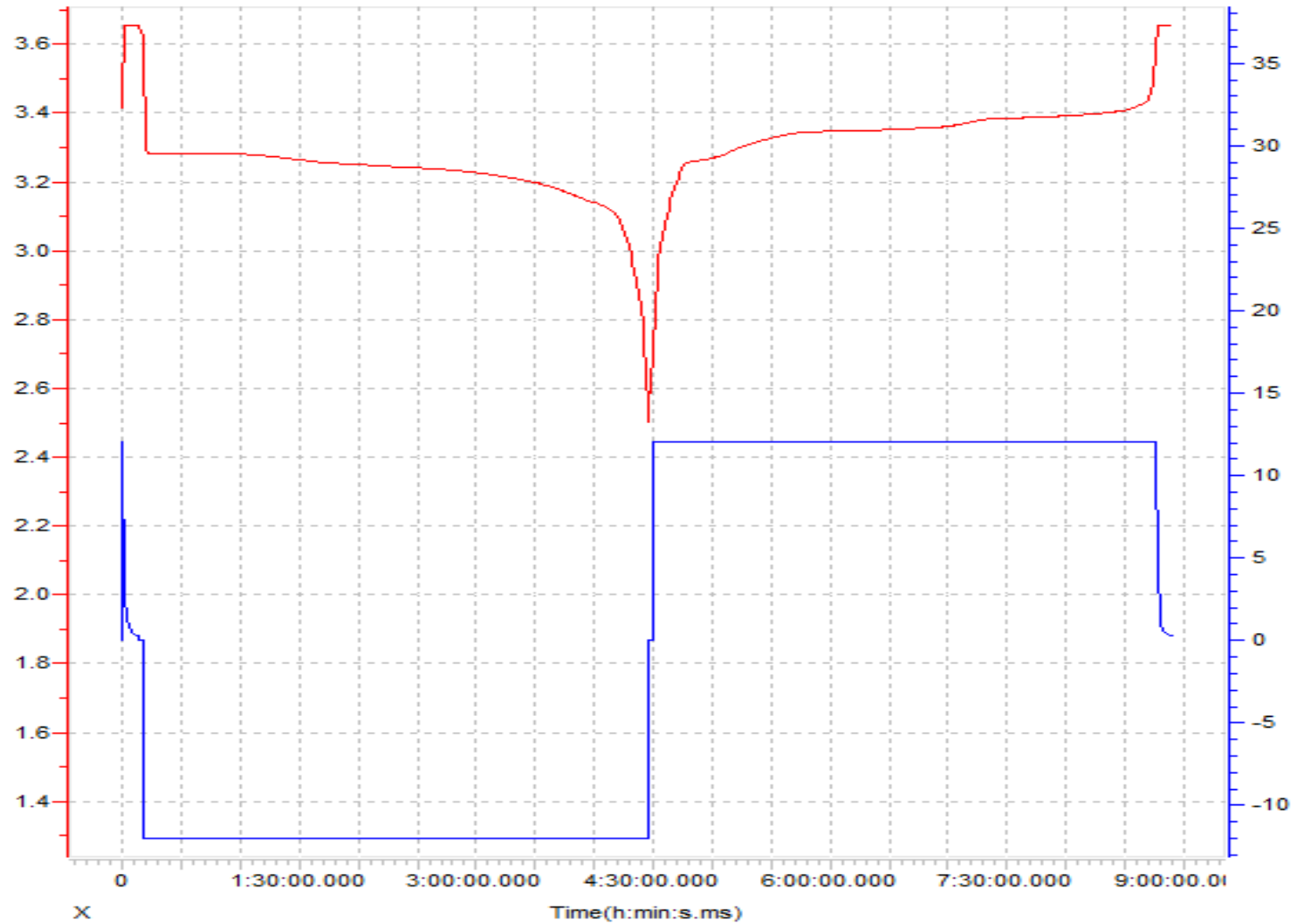
Time--Voltage&&Current

Y2: Voltage(V)

Y3: Current(A)

Y2

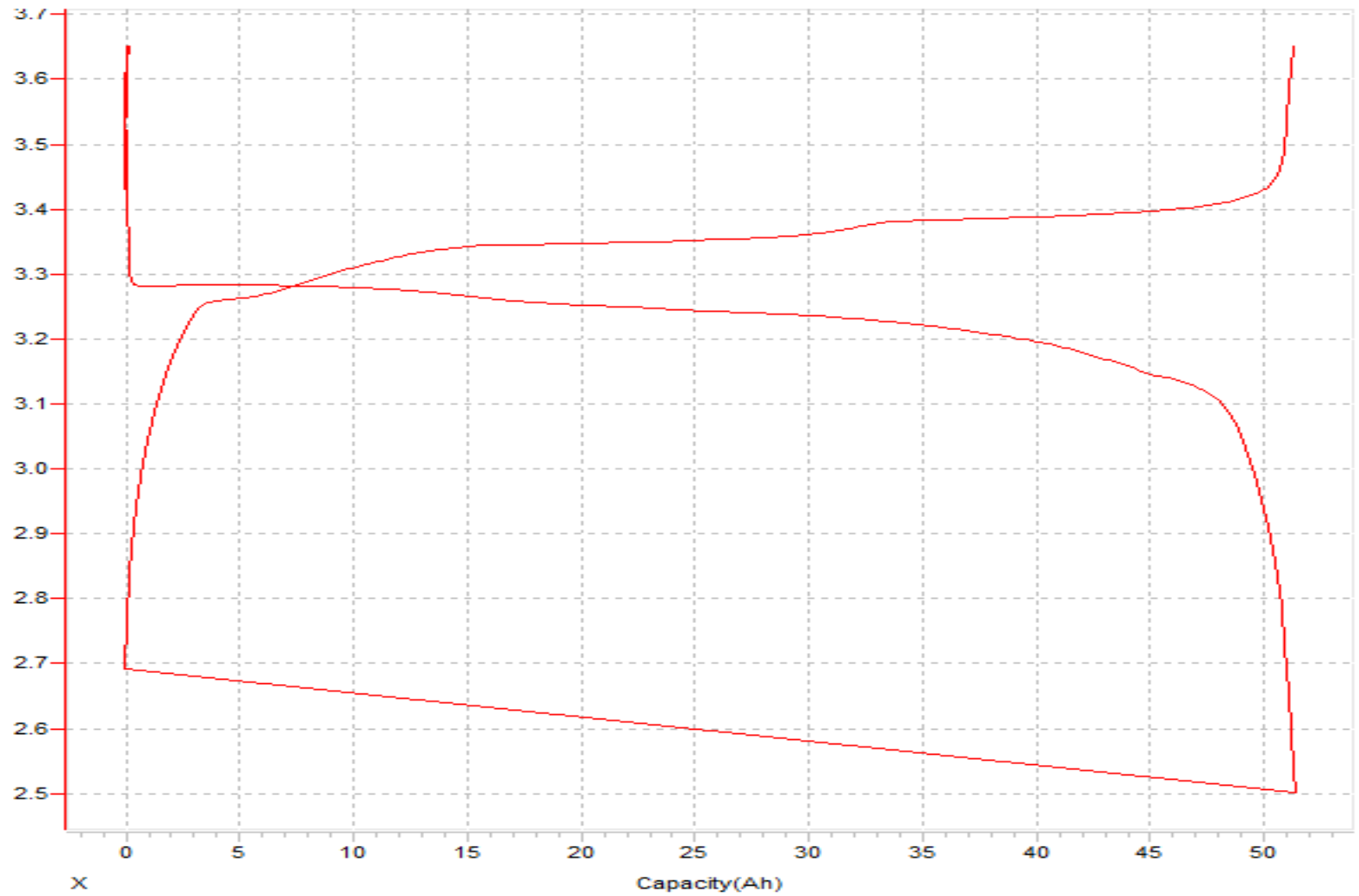
Y3



Capacity--Voltage

Y2: Voltage(V)

Y2



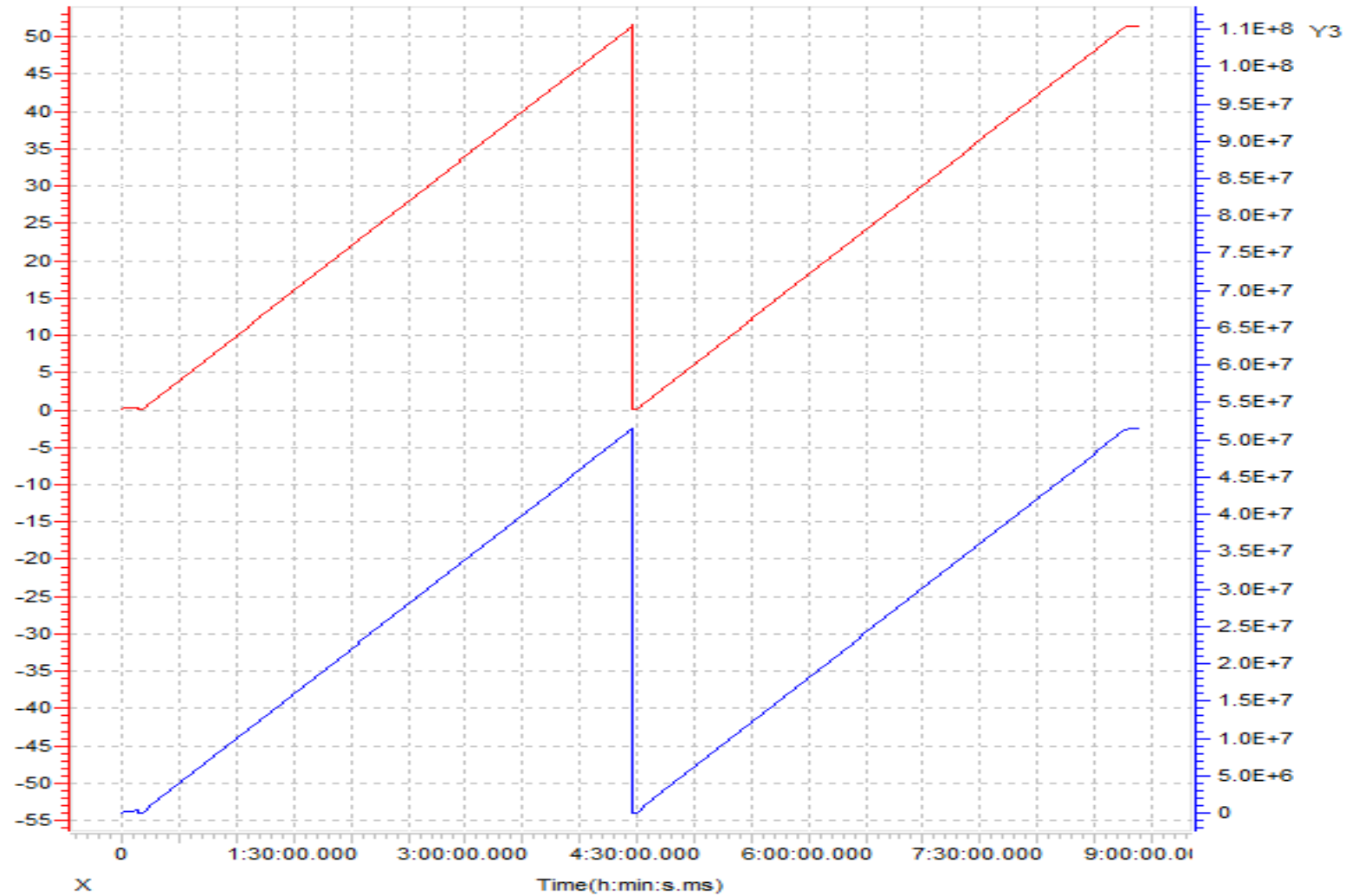
Time--Capacity&&Capacity Density

Y2:Capacity(Ah)

Y3:Capacity Density(Ah/kg)

Y2

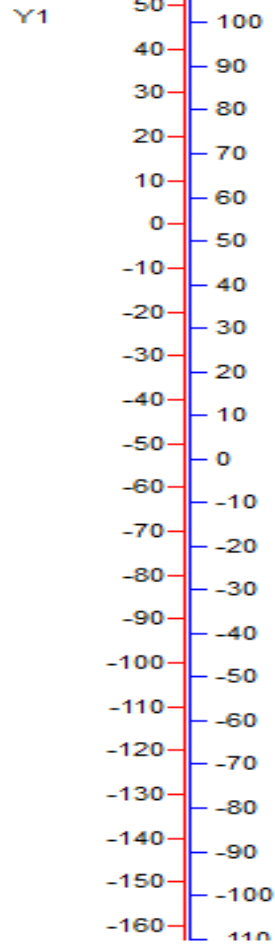
Y3



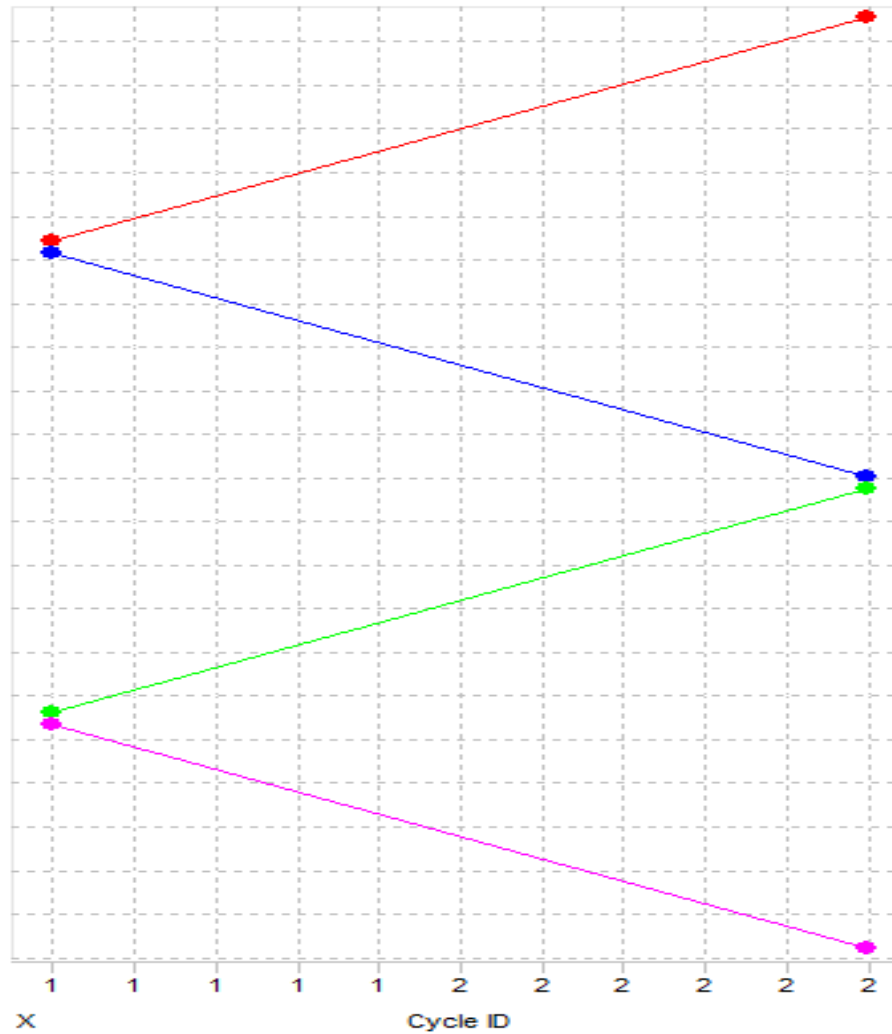
Cycle ID--Cap\_Chg&&Cap\_DChg&&Specific Capacity-Chg&&Specific Capacity-Dchg

Y2:Cap\_DChg(Ah)

Y1:Cap\_Chg(Ah)

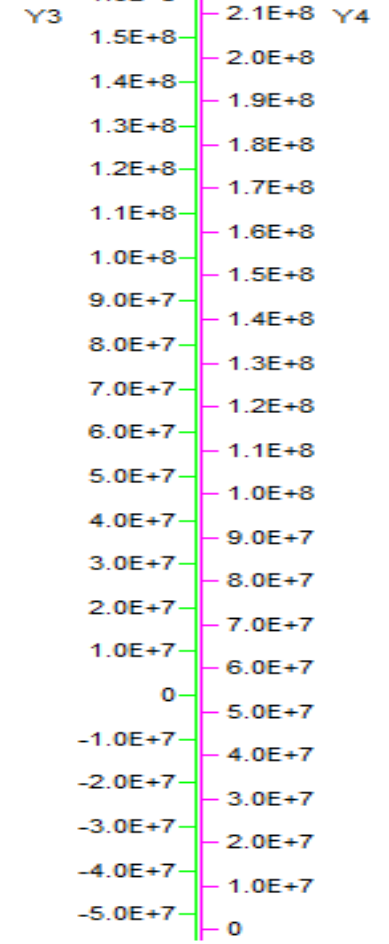


Y2



Y4:Specific Capacity-Dchg(Ah)

Y3:Specific Capacity-Chg(Ah)



Cycle ID--Chg/DChg Efficiency

Y2:Chg/DChg Efficiency

Y2

