

calb230ah.pdf

Device : 4

Channel : 8

Sub Device : 1

Start Test Time : 2023-05-02 09:50:04

End Test Time : 2023-05-04 02:23:21

Nda File Name : D:\7.5.4\NdaData\160004-1-8-973.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 : 3.7700(V)	P/N : 2023-05-02 09-50-04
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 : 2023-05-02 09:50:04	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(°C)	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(°C)	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	0.0000	0.4799	100.000	0.0	1691.1
2	0.3685	240.1544	65167.431	1308.6	779300.8
3	240.2304	0.0000	0.000	799129.4	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)
1	1	Rest	0:00:07.000	0.0000	0.0	3.7289	3.7289	0.0000	0.0000
1	2	CC_DChg	0:02:24.000	0.4799	1691.1	3.7189	3.4288	0.0000	3.5199
2	3	CCCV_Chg	0:05:31.000	0.3685	1308.6	3.4421	3.6514	3.5522	0.0000
2	4	Rest	0:02:00.000	0.0000	0.0	3.6511	3.6445	0.0000	0.0000
2	5	CC_DChg	20:00:53.000	240.1544	779300.8	3.6349	2.4993	0.0000	3.2638
2	6	Rest	0:02:00.000	0.0000	0.0	2.5083	2.5539	0.0000	0.0000
3	7	CCCV_Chg	20:19:04.000	240.2304	799129.4	2.5647	3.6514	3.3382	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		3.7289		0.0000		2023-05-02 10:50:55
1	1	2	0:00:00.000	3.7289	0.0000	0.0000	0.0	2023-05-02 09:51:02
1	1	3	0:00:07.000	3.7189	0.0000	0.0000	0.0	2023-05-02 09:51:05
1	2	4	0:00:00.000	3.5199	-11.9977	0.1966	0.0	2023-05-02 09:52:05
1	2	5	0:00:59.000	3.4461	-11.9977	0.3999	709.3	2023-05-02 09:53:05
1	2	6	0:02:24.000	3.4288	-11.9977	0.4799	1416.2	2023-05-02 09:53:29
2	3	7	0:00:00.000	3.4421	11.9990	0.0000	0.0	2023-05-02 09:53:33
2	3	8	0:00:59.000	3.5522	11.9990	0.1967	687.5	2023-05-02 09:54:33
2	3	9	0:01:59.000	3.6514	1.6381	0.3355	1188.0	2023-05-02 09:55:33
2	3	10	0:02:58.000	3.6514	0.6646	0.3521	1248.7	2023-05-02 09:56:33
2	3	11	0:03:59.000	3.6514	0.4030	0.3608	1280.4	2023-05-02 09:57:33
2	3	12	0:04:57.000	3.6514	0.3661	0.3661	1299.8	2023-05-02 09:58:33
2	3	13	0:04:57.000	3.6514	0.2790	0.3685	1299.8	2023-05-02 09:59:07
2	3	14	0:05:31.000	3.6511	0.1984	0.0000	1308.6	2023-05-02 09:59:08
2	4	15	0:00:00.000	3.6473	0.0000	0.0000	0.0	2023-05-02 10:00:08
2	4	16	0:00:59.000	3.6445	0.0000	0.0000	0.0	2023-05-02 10:01:08
2	4	17	0:01:59.000	3.6445	0.0000	0.0000	0.0	2023-05-02 10:01:08
2	4	18	0:02:00.000	3.6349	0.0000	0.0000	0.0	2023-05-02 10:01:09
2	5	19	0:00:59.000	3.4787	-11.9977	0.1966	696.6	2023-05-02 10:02:09
2	5	20	0:01:59.000	3.4247	-11.9977	0.3966	1386.3	2023-05-02 10:03:09
2	5	21	0:02:59.000	3.3928	-11.9977	0.5966	2067.8	2023-05-02 10:04:09

2		22		3.3699		0.7965		2023-05-02 10:05:09
2	5	23	0:03:59.000	3.3519	-11.9977	0.9965	2743.9	2023-05-02 10:06:09
2	5	24	0:04:59.000	3.3379	-11.9977	1.1964	3415.9	2023-05-02 10:07:09
2	5	25	0:05:59.000	3.3274	-11.9977	1.3964	4084.6	2023-05-02 10:08:09
2	5	26	0:06:59.000	3.3200	-11.9977	1.5964	4751.0	2023-05-02 10:09:09
2	5	27	0:07:59.000	3.3141	-11.9977	1.7963	5415.5	2023-05-02 10:10:09
2	5	28	0:08:59.000	3.3103	-11.9977	1.9963	6078.8	2023-05-02 10:11:09
2	5	29	0:09:59.000	3.3082	-11.9977	2.1962	6741.1	2023-05-02 10:12:09
2	5	30	0:10:59.000	3.3060	-11.9977	2.3962	7402.7	2023-05-02 10:13:09
2	5	31	0:11:59.000	3.3045	-11.9977	2.5962	8064.0	2023-05-02 10:14:09
2	5	32	0:12:59.000	3.3035	-11.9977	2.7995	8724.9	2023-05-02 10:15:09
2	5	33	0:14:00.000	3.3029	-11.9977	2.9961	9396.6	2023-05-02 10:16:09
2	5	34	0:14:59.000	3.3020	-11.9977	3.1994	10046.1	2023-05-02 10:17:09
2	5	35	0:16:00.000	3.3014	-11.9977	3.3960	10717.4	2023-05-02 10:18:09
2	5	36	0:16:59.000	3.3010	-11.9977	3.5960	11366.6	2023-05-02 10:19:09
2	5	37	0:17:59.000	3.3010	-11.9977	3.7959	12026.7	2023-05-02 10:20:09
2	5	38	0:18:59.000	3.3007	-11.9977	3.9959	12686.8	2023-05-02 10:21:09
2	5	39	0:19:59.000	3.3007	-11.9977	4.1992	13346.8	2023-05-02 10:22:09
2	5	40	0:21:00.000	3.3007	-11.9977	4.3958	14017.9	2023-05-02 10:23:09
2	5	41	0:21:59.000	3.3007	-11.9977	4.5958	14666.9	2023-05-02 10:24:09
2	5	42	0:22:59.000	3.3007	-11.9977	4.7958	15326.9	2023-05-02 10:25:09
2	5	43	0:23:59.000	3.3007	-11.9977	4.9957	15986.9	2023-05-02 10:26:09
2	5	44	0:24:59.000	3.3007	-11.9977	5.1990	16646.9	2023-05-02 10:27:09
2	5	45	0:26:00.000	3.3007	-11.9977	5.3923	17317.9	2023-05-02 10:28:09
2	5	46	0:26:58.000	3.3007	-11.9977	5.5923	17955.9	2023-05-02 10:29:09
2	5	47	0:27:58.000	3.3007	-11.9977	5.7922	18616.0	2023-05-02 10:30:09
2	5	48	0:28:58.000	3.3007	-11.9977	5.9922	19276.0	2023-05-02 10:31:09
2	5	49	0:29:58.000	3.3007	-11.9977	6.1955	19936.0	2023-05-02 10:32:09
2	5	50	0:30:59.000	3.3007	-11.9977	6.3921	20607.0	2023-05-02 10:33:09
2	5	51	0:31:58.000	3.3007	-11.9977	6.5921	21256.0	2023-05-02 10:34:09
2	5	52	0:32:58.000	3.3007	-11.9977	6.7920	21916.1	2023-05-02 10:35:09
2	5	53	0:33:58.000	3.3010	-11.9977	6.9920	22576.1	2023-05-02 10:36:09
2	5	54	0:34:58.000	3.3010	-11.9977	7.1920	23236.1	2023-05-02 10:37:09
2	5	55	0:35:58.000	3.3010	-11.9990	7.3919	23896.2	2023-05-02 10:38:09
2	5	56	0:36:58.000	3.3010	-11.9977	7.5919	24556.2	2023-05-02 10:39:09
2	5	57	0:37:58.000	3.3010	-11.9977	7.7919	25216.3	2023-05-02 10:40:09
2	5		0:38:58.000		-11.9977		25876.4	

2		58		3.3010		7.9918		2023-05-02 10:41:09
2	5	59	0:39:58.000	3.3010	-11.9977	8.1918	26536.5	2023-05-02 10:42:09
2	5	60	0:40:58.000	3.3010	-11.9977	8.3951	27196.5	2023-05-02 10:43:09
2	5	61	0:41:59.000	3.3010	-11.9977	8.5917	27867.6	2023-05-02 10:44:09
2	5	62	0:42:58.000	3.3014	-11.9977	8.7917	28516.7	2023-05-02 10:45:09
2	5	63	0:43:58.000	3.3014	-11.9977	8.9917	29176.8	2023-05-02 10:46:09
2	5	64	0:44:58.000	3.3014	-11.9977	9.1916	29837.0	2023-05-02 10:47:09
2	5	65	0:45:58.000	3.3014	-11.9977	9.3916	30497.2	2023-05-02 10:48:09
2	5	66	0:46:58.000	3.3014	-11.9990	9.5916	31157.3	2023-05-02 10:49:09
2	5	67	0:47:58.000	3.3014	-11.9977	9.7915	31817.5	2023-05-02 10:50:09
2	5	68	0:48:58.000	3.3017	-11.9977	9.9915	32477.7	2023-05-02 10:51:09
2	5	69	0:49:58.000	3.3014	-11.9990	10.1915	33137.9	2023-05-02 10:52:09
2	5	70	0:50:58.000	3.3017	-11.9977	10.3914	33798.1	2023-05-02 10:53:09
2	5	71	0:51:58.000	3.3017	-11.9990	10.5914	34458.3	2023-05-02 10:54:09
2	5	72	0:52:58.000	3.3017	-11.9977	10.7914	35118.5	2023-05-02 10:55:09
2	5	73	0:53:58.000	3.3017	-11.9977	10.9913	35778.8	2023-05-02 10:56:09
2	5	74	0:54:58.000	3.3017	-11.9977	11.1913	36439.0	2023-05-02 10:57:09
2	5	75	0:55:58.000	3.3017	-11.9977	11.3913	37099.2	2023-05-02 10:58:09
2	5	76	0:56:58.000	3.3017	-11.9977	11.5912	37759.5	2023-05-02 10:59:09
2	5	77	0:57:58.000	3.3017	-11.9977	11.7945	38419.7	2023-05-02 11:00:09
2	5	78	0:58:59.000	3.3017	-11.9977	11.9945	39091.0	2023-05-02 11:01:09
2	5	79	0:59:59.000	3.3020	-11.9990	12.1911	39751.2	2023-05-02 11:02:09
2	5	80	1:00:58.000	3.3017	-11.9977	12.3911	40400.4	2023-05-02 11:03:09
2	5	81	1:01:58.000	3.3020	-11.9977	12.5911	41060.7	2023-05-02 11:04:09
2	5	82	1:02:58.000	3.3020	-11.9977	12.7910	41720.9	2023-05-02 11:05:09
2	5	83	1:03:58.000	3.3020	-11.9990	12.9910	42381.2	2023-05-02 11:06:09
2	5	84	1:04:58.000	3.3020	-11.9977	13.1910	43041.5	2023-05-02 11:07:09
2	5	85	1:05:58.000	3.3020	-11.9977	13.3909	43701.8	2023-05-02 11:08:09
2	5	86	1:06:58.000	3.3020	-11.9990	13.5942	44362.1	2023-05-02 11:09:09
2	5	87	1:07:59.000	3.3020	-11.9977	13.7909	45033.4	2023-05-02 11:10:09
2	5	88	1:08:58.000	3.3020	-11.9977	13.9909	45682.7	2023-05-02 11:11:09
2	5	89	1:09:58.000	3.3020	-11.9990	14.1942	46342.9	2023-05-02 11:12:09
2	5	90	1:10:59.000	3.3020	-11.9977	14.3908	47014.3	2023-05-02 11:13:09
2	5	91	1:11:58.000	3.3020	-11.9977	14.5908	47663.6	2023-05-02 11:14:09
2	5	92	1:12:58.000	3.3023	-11.9977	14.7907	48323.8	2023-05-02 11:15:09
2	5	93	1:13:58.000	3.3023	-11.9977	14.9907	48984.1	2023-05-02 11:16:09
2	5		1:14:58.000		-11.9990		49644.5	

2		94		3.3023		15.1907		2023-05-02 11:17:09
2	5	95	1:15:58.000	3.3020	-11.9990	15.3906	50304.8	2023-05-02 11:18:09
2	5	96	1:16:58.000	3.3020	-11.9977	15.5906	50965.1	2023-05-02 11:19:09
2	5	97	1:17:58.000	3.3023	-11.9977	15.7872	51625.4	2023-05-02 11:20:09
2	5	98	1:18:57.000	3.3023	-11.9977	15.9872	52274.7	2023-05-02 11:21:09
2	5	99	1:19:57.000	3.3023	-11.9990	16.1872	52935.1	2023-05-02 11:22:09
2	5	100	1:20:57.000	3.3023	-11.9990	16.3871	53595.5	2023-05-02 11:23:09
2	5	101	1:21:57.000	3.3023	-11.9977	16.5871	54255.8	2023-05-02 11:24:09
2	5	102	1:22:57.000	3.3023	-11.9977	16.7871	54916.2	2023-05-02 11:25:09
2	5	103	1:23:57.000	3.3023	-11.9977	16.9870	55576.5	2023-05-02 11:26:09
2	5	104	1:24:57.000	3.3023	-11.9990	17.1870	56236.9	2023-05-02 11:27:09
2	5	105	1:25:57.000	3.3023	-11.9977	17.3870	56897.2	2023-05-02 11:28:09
2	5	106	1:26:57.000	3.3023	-11.9990	17.5869	57557.6	2023-05-02 11:29:09
2	5	107	1:27:57.000	3.3023	-11.9977	17.7869	58218.0	2023-05-02 11:30:09
2	5	108	1:28:57.000	3.3023	-11.9977	17.9869	58878.3	2023-05-02 11:31:09
2	5	109	1:29:57.000	3.3023	-11.9977	18.1869	59538.7	2023-05-02 11:32:09
2	5	110	1:30:57.000	3.3023	-11.9977	18.3868	60199.1	2023-05-02 11:33:09
2	5	111	1:31:57.000	3.3023	-11.9990	18.5868	60859.5	2023-05-02 11:34:09
2	5	112	1:32:57.000	3.3023	-11.9990	18.7868	61519.9	2023-05-02 11:35:09
2	5	113	1:33:57.000	3.3029	-11.9977	18.9901	62180.3	2023-05-02 11:36:09
2	5	114	1:34:58.000	3.3029	-11.9990	19.1867	62851.8	2023-05-02 11:37:09
2	5	115	1:35:57.000	3.3029	-11.9990	19.3867	63501.3	2023-05-02 11:38:09
2	5	116	1:36:57.000	3.3029	-11.9977	19.5867	64161.8	2023-05-02 11:39:09
2	5	117	1:37:57.000	3.3029	-11.9977	19.7867	64822.3	2023-05-02 11:40:09
2	5	118	1:38:57.000	3.3029	-11.9990	19.9866	65482.8	2023-05-02 11:41:09
2	5	119	1:39:57.000	3.3029	-11.9990	20.1866	66143.3	2023-05-02 11:42:09
2	5	120	1:40:57.000	3.3029	-11.9990	20.3866	66803.9	2023-05-02 11:43:09
2	5	121	1:41:57.000	3.3029	-11.9990	20.5866	67464.4	2023-05-02 11:44:09
2	5	122	1:42:57.000	3.3032	-11.9990	20.7866	68124.9	2023-05-02 11:45:09
2	5	123	1:43:57.000	3.3032	-11.9990	20.9899	68785.5	2023-05-02 11:46:09
2	5	124	1:44:58.000	3.3032	-11.9990	21.1865	69457.0	2023-05-02 11:47:09
2	5	125	1:45:57.000	3.3032	-11.9990	21.3899	70106.6	2023-05-02 11:48:09
2	5	126	1:46:58.000	3.3032	-11.9990	21.5865	70778.2	2023-05-02 11:49:09
2	5	127	1:47:57.000	3.3032	-11.9990	21.7865	71427.8	2023-05-02 11:50:09
2	5	128	1:48:57.000	3.3032	-11.9990	21.9898	72088.4	2023-05-02 11:51:09
2	5	129	1:49:58.000	3.3032	-11.9990	22.1898	72760.0	2023-05-02 11:52:09
2	5		1:50:58.000	3.3032	-11.9990		73420.5	

2		130		3.3032		22.3898		2023-05-02 11:53:09
2	5	131	1:51:58.000	3.3032	-11.9990		74081.1	2023-05-02 11:54:09
2	5	132	1:52:58.000	3.3032	-11.9990	22.5898	74741.7	2023-05-02 11:55:09
2	5	133	1:53:57.000	3.3032	-11.9990	22.7864	75391.3	2023-05-02 11:56:09
2	5	134	1:54:57.000	3.3032	-11.9990	22.9864	76051.9	2023-05-02 11:57:09
2	5	135	1:55:57.000	3.3032	-11.9990	23.1864	76712.4	2023-05-02 11:58:09
2	5	136	1:56:57.000	3.3032	-11.9990	23.3864	77373.0	2023-05-02 11:59:09
2	5	137	1:57:57.000	3.3032	-11.9990	23.5863	78033.6	2023-05-02 12:00:09
2	5	138	1:58:57.000	3.3032	-11.9990	23.7863	78694.2	2023-05-02 12:01:09
2	5	139	1:59:57.000	3.3035	-11.9990	23.9863	79354.8	2023-05-02 12:02:09
2	5	140	2:00:57.000	3.3035	-11.9990	24.1863	80015.5	2023-05-02 12:03:09
2	5	141	2:01:57.000	3.3035	-11.9990	24.3863	80676.1	2023-05-02 12:04:09
2	5	142	2:02:57.000	3.3035	-11.9990	24.5863	81336.7	2023-05-02 12:05:09
2	5	143	2:03:58.000	3.3035	-11.9990	24.7896	82008.4	2023-05-02 12:06:09
2	5	144	2:04:57.000	3.3035	-11.9990	24.9862	82658.0	2023-05-02 12:07:09
2	5	145	2:05:58.000	3.3035	-11.9990	25.1895	83329.6	2023-05-02 12:08:09
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2	5	156	2:16:58.000	3.3035	-11.9990	27.3894	90596.7	2023-05-02 12:19:09
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2	5	159	2:19:57.000	3.3035	-11.9990	27.9860	92567.6	2023-05-02 12:22:09
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2	5	478	7:38:56.000	3.2753	-11.9990	91.9768	302934.2	2023-05-02 17:41:09
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2	5	484	7:44:56.000	3.2741	-11.9990	93.1767	306863.8	2023-05-02 17:47:09
2	5	485	7:45:56.000	3.2741	-11.9990	93.3766	307518.7	2023-05-02 17:48:09
2	5	486	7:46:56.000	3.2738	-11.9990	93.5766	308173.4	2023-05-02 17:49:09
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2	5	640	10:20:55.000	3.2629	-11.9990	124.3707	408766.0	2023-05-02 20:23:09
2	5	641	10:21:55.000	3.2629	-11.9990	124.5706	409418.6	2023-05-02 20:24:09
2	5	642	10:22:55.000	3.2629	-11.9990	124.7706	410071.1	2023-05-02 20:25:09
2	5	643	10:23:55.000	3.2629	-11.9990	124.9706	410723.7	2023-05-02 20:26:09
2	5	644	10:24:55.000	3.2629	-11.9990	125.1706	411376.2	2023-05-02 20:27:09
2	5	645	10:25:55.000	3.2629	-11.9990	125.3706	412028.7	2023-05-02 20:28:09
2	5	646	10:26:55.000	3.2629	-11.9990	125.5706	412681.2	2023-05-02 20:29:09
2	5	647	10:27:55.000	3.2629	-11.9990	125.7705	413333.8	2023-05-02 20:30:09
2	5	648	10:28:55.000	3.2629	-11.9990	125.9672	413986.3	2023-05-02 20:31:09
2	5	649	10:29:54.000	3.2629	-11.9990	126.1672	414627.9	2023-05-02 20:32:09
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2	5	651	10:31:54.000	3.2626	-11.9990	126.5672	415932.9	2023-05-02 20:34:09
2	5	652	10:32:54.000	3.2626	-11.9990	126.7671	416585.4	2023-05-02 20:35:09
2	5	653	10:33:54.000	3.2626	-11.9990	126.9671	417237.9	2023-05-02 20:36:09
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2	5	662	10:42:54.000	3.2623	-11.9990	128.7670	423109.9	2023-05-02 20:45:09
2	5	663	10:43:54.000	3.2623	-11.9990	128.9670	423762.3	2023-05-02 20:46:09
2	5	664	10:44:54.000	3.2623	-11.9990	129.1703	424414.7	2023-05-02 20:47:09
2	5	665	10:45:55.000	3.2623	-11.9990	129.3669	425078.0	2023-05-02 20:48:09
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2	5	669	10:49:54.000	3.2620	-11.9990	130.1669	427676.7	2023-05-02 20:52:09
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2	5	672	10:52:54.000	3.2620	-11.9990	130.7668	429633.8	2023-05-02 20:55:09
2	5	673	10:53:54.000	3.2620	-11.9990	130.9668	430286.2	2023-05-02 20:56:09
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2	5	676	10:56:54.000	3.2620	-11.9990	131.5667	432243.2	2023-05-02 20:59:09
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2	5	680	11:00:54.000	3.2617	-11.9990	132.3667	434852.6	2023-05-02 21:03:09
2	5	681	11:01:54.000	3.2617	-11.9990	132.5700	435504.8	2023-05-02 21:04:09
2	5	682	11:02:55.000	3.2617	-11.9990	132.7666	436168.0	2023-05-02 21:05:09
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2	5	684	11:04:54.000	3.2617	-11.9990	133.1666	437461.7	2023-05-02 21:07:09
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2	5	694	11:14:54.000	3.2614	-11.9990	135.1664	443984.2	2023-05-02 21:17:09
2	5	695	11:15:54.000	3.2614	-11.9990	135.3664	444636.5	2023-05-02 21:18:09
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2	5	697	11:17:54.000	3.2610	-11.9990	135.7664	445940.9	2023-05-02 21:20:09
2	5	698	11:18:54.000	3.2610	-11.9990	135.9664	446593.1	2023-05-02 21:21:09
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2	5	700	11:20:54.000	3.2610	-11.9990	136.3697	447897.4	2023-05-02 21:23:09
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2	5	703	11:23:55.000	3.2610	-11.9990	136.9663	449864.7	2023-05-02 21:26:09
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2	5	705	11:25:54.000	3.2607	-11.9990	137.3696	451158.1	2023-05-02 21:28:09
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2	5	712	11:32:55.000	3.2607	-11.9990	138.7695	455733.6	2023-05-02 21:35:09
2	5	713	11:33:55.000	3.2604	-11.9990	138.9661	456385.7	2023-05-02 21:36:09
2	5	714	11:34:54.000	3.2604	-11.9990	139.1661	457026.9	2023-05-02 21:37:09
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2	5	718	11:38:54.000	3.2604	-11.9990	139.9660	459635.0	2023-05-02 21:41:09
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2	5	720	11:40:54.000	3.2604	-11.9990	140.3660	460939.1	2023-05-02 21:43:09
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2	5	730	11:50:54.000	3.2598	-11.9990	142.3658	467458.7	2023-05-02 21:53:09
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2	5	732	11:52:54.000	3.2598	-11.9990	142.7658	468762.5	2023-05-02 21:55:09
2	5	733	11:53:54.000	3.2598	-11.9990	142.9658	469414.4	2023-05-02 21:56:09
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2	5	737	11:57:55.000	3.2595	-11.9990	143.7657	472032.9	2023-05-02 22:00:09
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2	5	741	12:01:54.000	3.2595	-11.9990	144.5657	474629.4	2023-05-02 22:04:09
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2	5	752	12:12:54.000	3.2589	-11.9990	146.7655	481799.0	2023-05-02 22:15:09
2	5	753	12:13:54.000	3.2589	-11.9990	146.9655	482450.7	2023-05-02 22:16:09
2	5	754	12:14:54.000	3.2589	-11.9990	147.1688	483102.4	2023-05-02 22:17:09
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2	5	759	12:19:54.000	3.2586	-11.9990	148.1654	486360.8	2023-05-02 22:22:09
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2	5	761	12:21:54.000	3.2583	-11.9990	148.5653	487664.1	2023-05-02 22:24:09
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2	5	768	12:28:54.000	3.2579	-11.9990	149.9685	492225.2	2023-05-02 22:31:09
2	5	769	12:29:55.000	3.2579	-11.9990	150.1685	492887.6	2023-05-02 22:32:09
2	5	770	12:30:55.000	3.2579	-11.9990	150.3685	493539.1	2023-05-02 22:33:09
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2	5	772	12:32:54.000	3.2576	-11.9990	150.7651	494831.3	2023-05-02 22:35:09
2	5	773	12:33:54.000	3.2576	-11.9990	150.9651	495482.8	2023-05-02 22:36:09
2	5	774	12:34:54.000	3.2576	-11.9990	151.1651	496134.2	2023-05-02 22:37:09
2	5	775	12:35:54.000	3.2576	-11.9990	151.3684	496785.7	2023-05-02 22:38:09
2	5	776	12:36:55.000	3.2573	-11.9990	151.5651	497448.0	2023-05-02 22:39:09
2	5	777	12:37:54.000	3.2573	-11.9990	151.7651	498088.5	2023-05-02 22:40:09
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2	5	801	13:01:54.000	3.2552	-11.9990	156.5647	513718.4	2023-05-02 23:04:09
2	5	802	13:02:54.000	3.2552	-11.9990	156.7646	514369.5	2023-05-02 23:05:09
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2	5	804	13:04:54.000	3.2552	-11.9990	157.1646	515671.5	2023-05-02 23:07:09
2	5	805	13:05:54.000	3.2552	-11.9990	157.3679	516322.5	2023-05-02 23:08:09
2	5	806	13:06:55.000	3.2545	-11.9990	157.5646	516984.3	2023-05-02 23:09:09
2	5	807	13:07:54.000	3.2545	-11.9990	157.7646	517624.4	2023-05-02 23:10:09
2	5	808	13:08:54.000	3.2545	-11.9990	157.9679	518275.2	2023-05-02 23:11:09
2	5	809	13:09:55.000	3.2542	-11.9990	158.1678	518936.9	2023-05-02 23:12:09
2	5	810	13:10:55.000	3.2542	-11.9990	158.3645	519587.7	2023-05-02 23:13:09
2	5	811	13:11:54.000	3.2542	-11.9990	158.5645	520227.7	2023-05-02 23:14:09
2	5	812	13:12:54.000	3.2539	-11.9990	158.7645	520878.4	2023-05-02 23:15:09
2	5	813	13:13:54.000	3.2539	-11.9990	158.9645	521529.2	2023-05-02 23:16:09
2	5		13:14:54.000		-11.9990		522179.9	

2		814		3.2539		159.1644		2023-05-02 23:17:09
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2	5	816	13:16:54.000	3.2536	-11.9990	159.5644	523481.3	2023-05-02 23:19:09
2	5	817	13:17:54.000	3.2533	-11.9990	159.7644	524132.0	2023-05-02 23:20:09
2	5	818	13:18:54.000	3.2533	-11.9990	159.9644	524782.6	2023-05-02 23:21:09
2	5	819	13:19:54.000	3.2533	-11.9990	160.1644	525433.2	2023-05-02 23:22:09
2	5	820	13:20:54.000	3.2530	-11.9990	160.3643	526083.8	2023-05-02 23:23:09
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2	5	822	13:22:54.000	3.2527	-11.9990	160.7643	527384.9	2023-05-02 23:25:09
2	5	823	13:23:54.000	3.2527	-11.9990	160.9643	528035.4	2023-05-02 23:26:09
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2	5	830	13:30:54.000	3.2517	-11.9990	162.3675	532588.3	2023-05-02 23:33:09
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2	5	841	13:41:54.000	3.2502	-11.9990	164.5640	539740.1	2023-05-02 23:44:09
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2	5	845	13:45:54.000	3.2496	-11.9990	165.3672	542339.9	2023-05-02 23:48:09
2	5	846	13:46:55.000	3.2496	-11.9990	165.5639	543000.6	2023-05-02 23:49:09
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2	5	862	14:02:54.000	3.2468	-11.9990	168.7636	553383.6	2023-05-03 00:05:09
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2	5	885	14:25:54.000	3.2424	-11.9990	173.3633	568309.2	2023-05-03 00:28:09
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2	6	1222	0:00:00.000	2.5412	0.0000	0.0000	0.0	2023-05-03 06:03:11
2	6	1223	0:00:59.000	2.5539	0.0000	0.0000	0.0	2023-05-03 06:04:11
2	6	1224	0:01:59.000	2.5539	0.0000	0.0000	0.0	2023-05-03 06:04:11
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3	7	1228	0:01:59.000	2.7346	12.0002	0.6000	1600.6	2023-05-03 06:07:12
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3	7	1238	0:12:59.000	2.9213	12.0002	2.5967	7276.0	2023-05-03 06:17:12
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3	7	2158	15:31:54.000	3.3748	12.0002	186.5801	616627.0	2023-05-03 21:37:12
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3	7	2160	15:33:54.000	3.3748	12.0002	186.9801	617976.9	2023-05-03 21:39:12
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3	7	2253	17:06:55.000	3.3785	12.0002	205.5805	680793.9	2023-05-03 23:12:12
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3	7	2259	17:12:54.000	3.3792	12.0002	206.7805	684837.4	2023-05-03 23:18:12
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3	7	2328	18:21:55.000	3.3832	12.0002	220.5807	731504.8	2023-05-04 00:27:12
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3	7	2444	20:17:54.000	3.6514	0.2566	240.2298	799111.4	2023-05-04 02:23:12
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Curver

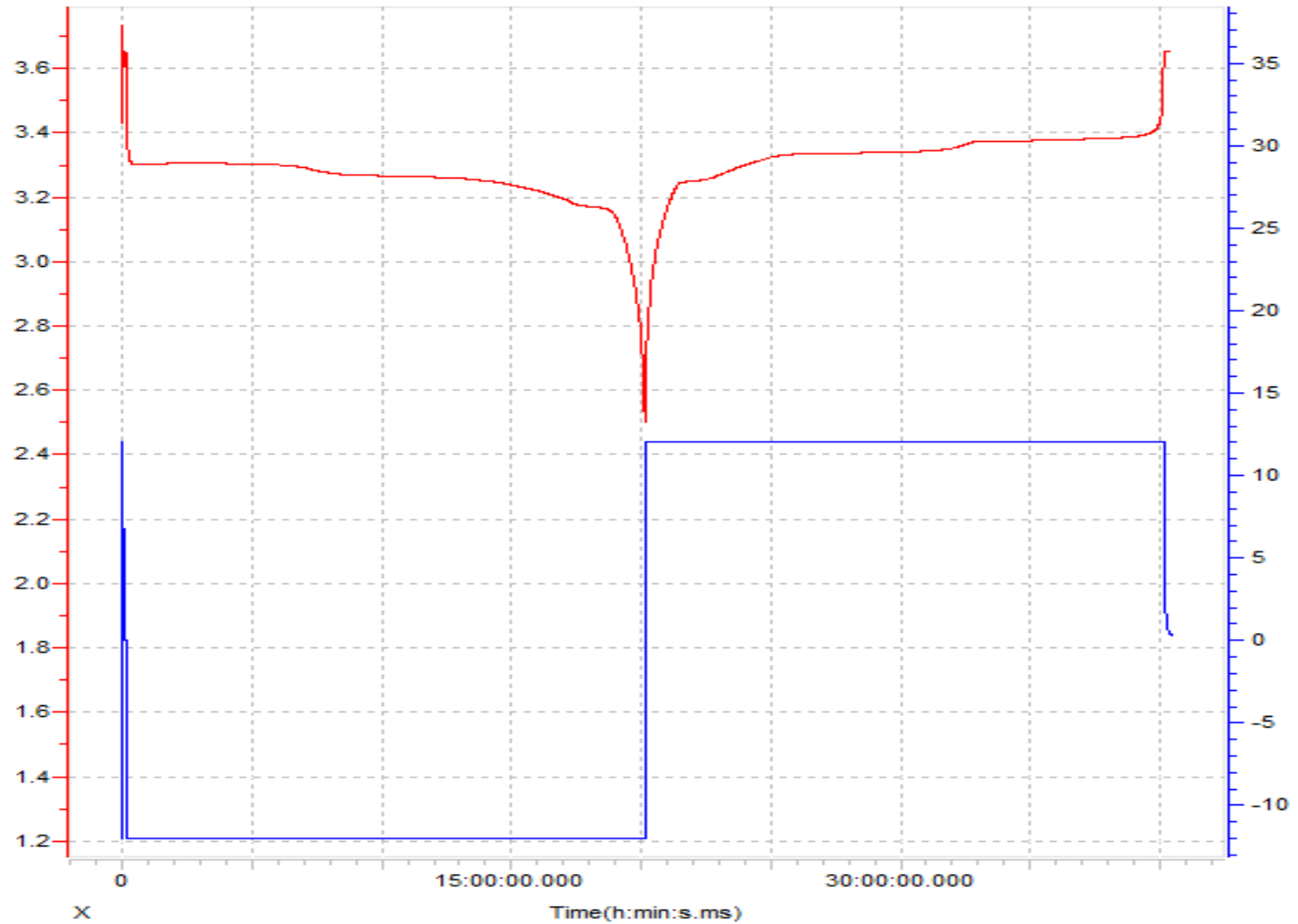
Time--Voltage&&Current

Y2: Voltage(V)

Y3: Current(A)

Y2

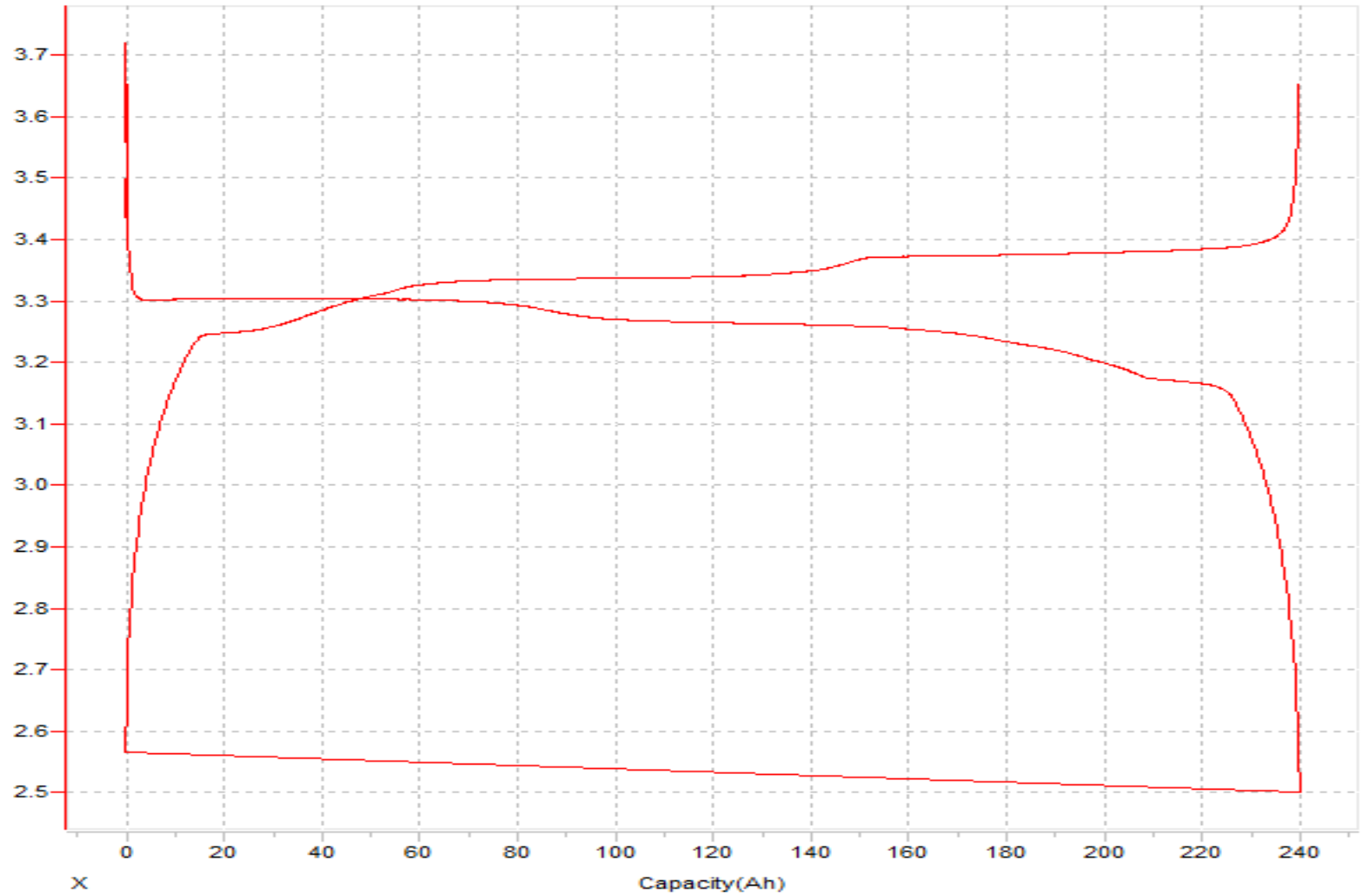
Y3



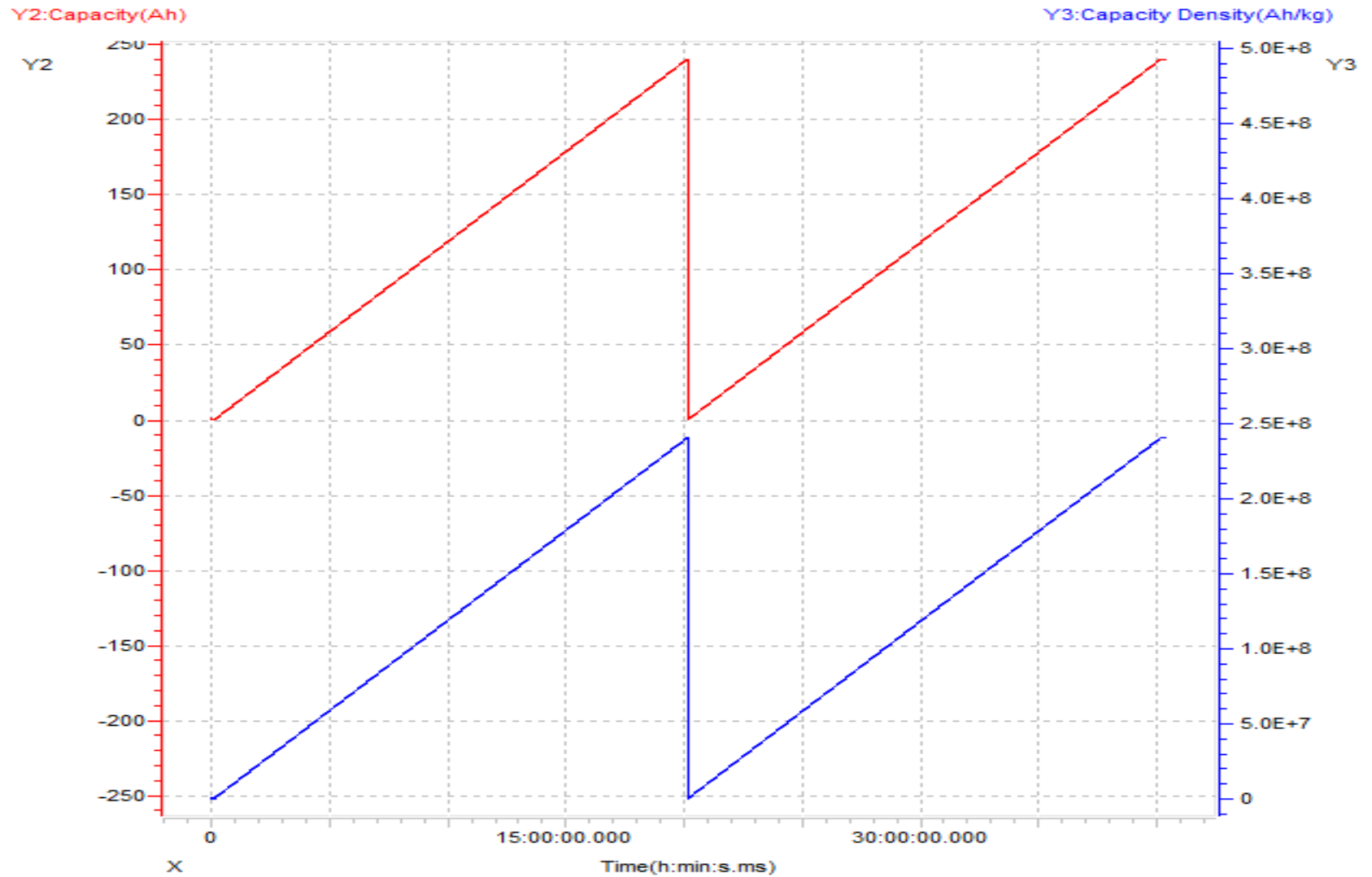
Capacity--Voltage

Y2: Voltage(V)

Y2



Time--Capacity&&Capacity Density

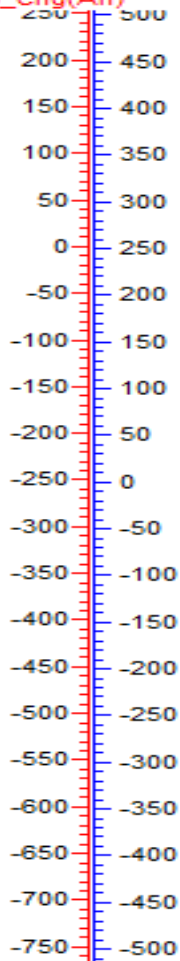


Cycle ID--Cap_Chg&&Cap_DChg&&Specific Capacity-Chg&&Specific Capacity-Dchg

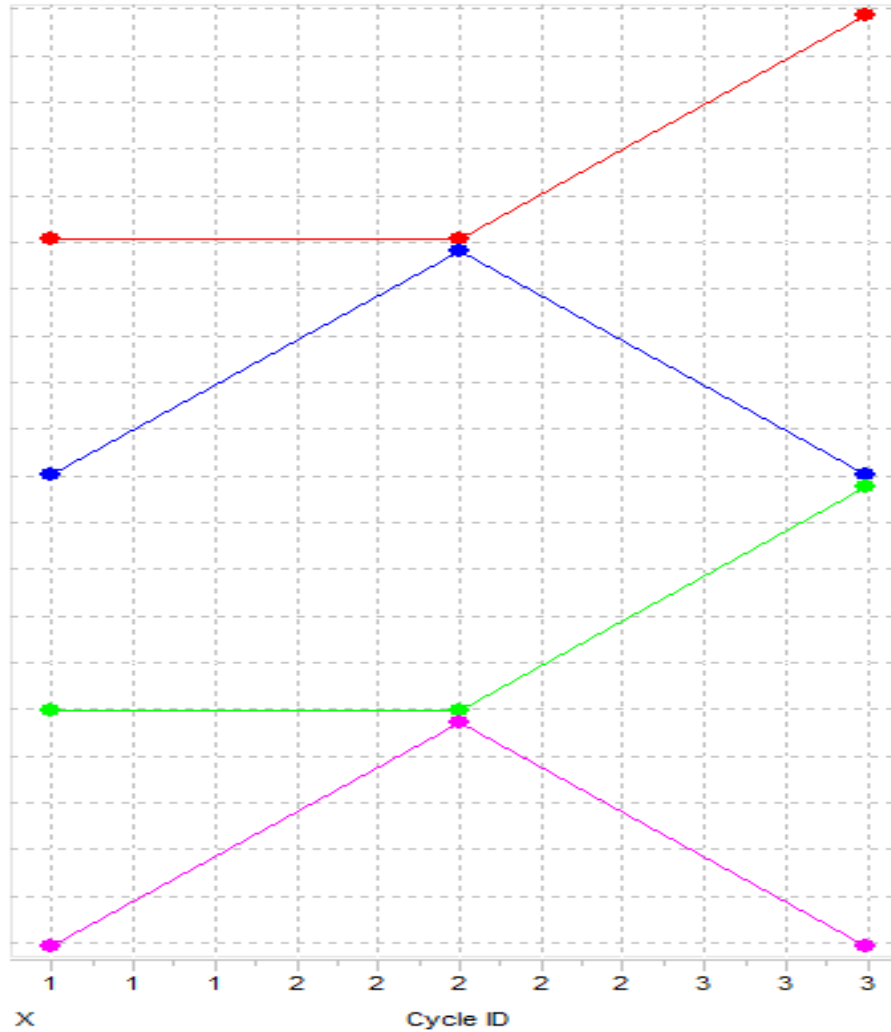
Y2:Cap_DChg(Ah)

Y1:Cap_Chg(Ah)

Y1



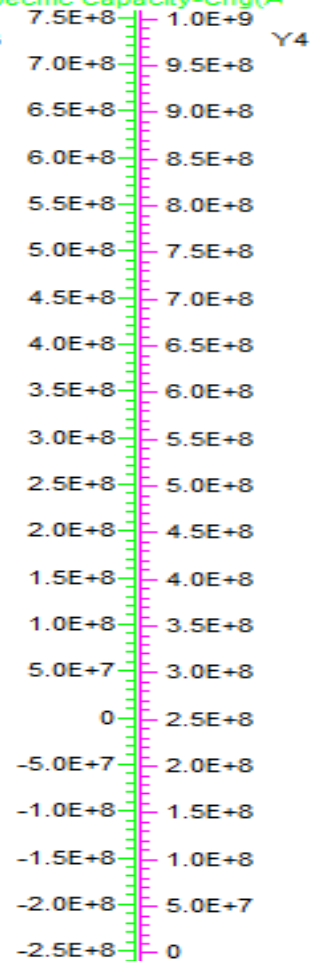
Y2



Y4:Specific Capacity-Dchg(A)

Y3:Specific Capacity-Chg(A)

Y3



Y4

Cycle ID--Chg/DChg Efficiency

Y2:Chg/DChg Efficiency

Y2

