

## TEST00AH.pdf

Device : 1

Channel : 2

Sub Device : 1

Start Test Time : 2023-03-22 10:13:52

End Test Time : 2023-03-23 08:09:42

Nda File Name : D:\7.5.4\NdaData\160001-1-2-6566.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 : 4.3500(V)

P/N : 2023-03-22 10-13-51

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 : 2023-03-22 10:13:52

Battery Barcode :

### Step setting scheme

Step ID	Step Name	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)
			End Current (A)	Change-limit Voltage(V)	Resistance(m <sup>2</sup> )	Record Condition	Max Vi(V)	Max Ti(oC)	Record Condition1	Record Condition3		
1	Rest	0:01:00.000					60000.0ms/0.0000V/0.0000A					
2	CCCV_Chg		4.2000	12.0000000			60000.0ms/0.0000V/0.0000A					
3	Rest	0:02:00.000	0.2000				60000.0ms/0.0000V/0.0000A					
4	CC_DChg		2.5000	12.0000000			60000.0ms/0.0000V/0.0000A					
5	Rest	0:02:00.000					60000.0ms/0.0000V/0.0000A					
6	CCCV_Chg		3.6500	12.0000000			60000.0ms/0.0000V/0.0000A					
7	End						60000.0ms/0.0000V/0.0000A					

### Cycle Data

Cycle ID	Cap_Chg(Ah)	Chg/DChg Efficiency(%)	Engy_Chg(mWh)	Engy_DChg(mWh)
1	67.6582	164.293	264681.5	412277.8
2	43.6704	0.0000	154667.3	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		Rest		0.0000		3.6442		0.0000	
1	1	CCCV_Chg	0:00:06.000	67.6582	0.0	3.6573	3.6442	3.9034	0.0000
1	2	Rest	6:52:01.000	0.0000	264681.5	4.2016	4.2016	0.0000	0.0000
1	3	Rest	0:02:00.000	0.0000	0.0	4.2013	4.2013	0.0000	0.0000
1	4	CC_DChg	9:15:50.000	111.1574	412277.8	4.1899	2.4987	0.0000	3.6613
1	5	Rest	0:02:00.000	0.0000	0.0	2.5232	2.7492	0.0000	0.0000
2	6	CCCV_Chg	5:43:29.000	43.6704	154667.3	2.7718	3.6514	3.5816	0.0000

## Record Data

Cycle ID	Step ID	Record ID	Time(h:min:s.ms)	Voltage(V)	Current (A)	Capacity(Ah)	Energy(mWh)	Real time
1		1		3.6442		0.0000		2023-03-22 10:13:54
1	1	2	0:00:00.000	3.6442	0.0000	0.0000	0.0	2023-03-22 10:14:00
1	1	3	0:00:06.000	3.6573	0.0000	0.0000	0.0	2023-03-22 10:14:01
1	2	4	0:00:00.000	3.6635	11.9940	0.1966	0.0	2023-03-22 10:15:01
1	2	5	0:00:59.000	3.6659	11.9940	0.3965	719.6	2023-03-22 10:16:01
1	2	6	0:01:59.000	3.6678	11.9940	0.5964	1452.3	2023-03-22 10:17:01
1	2	7	0:02:59.000	3.6697	11.9965	0.7964	2185.4	2023-03-22 10:18:01
1	2	8	0:03:59.000	3.6709	11.9965	0.9963	2918.9	2023-03-22 10:19:01
1	2	9	0:04:59.000	3.6718	11.9965	1.1962	3652.8	2023-03-22 10:20:01
1	2	10	0:05:59.000	3.6728	11.9965	1.3962	4386.8	2023-03-22 10:21:01
1	2	11	0:06:59.000	3.6734	11.9965	1.5961	5121.1	2023-03-22 10:22:01
1	2	12	0:07:59.000	3.6740	11.9965	1.7994	5855.5	2023-03-22 10:23:01
1	2	13	0:09:00.000	3.6752	11.9965	1.9960	6602.2	2023-03-22 10:24:01
1	2	14	0:09:59.000	3.6759	11.9965	2.1959	7324.8	2023-03-22 10:25:01
1	2	15	0:10:59.000	3.6765	11.9965	2.3959	8059.7	2023-03-22 10:26:01
1	2	16	0:11:59.000	3.6774	11.9965	2.5958	8794.7	2023-03-22 10:27:01
1	2	17	0:12:59.000	3.6780	11.9965	2.7958	9529.9	2023-03-22 10:28:01
1	2	18	0:13:59.000	3.6786	11.9965	2.9990	10265.2	2023-03-22 10:29:01
1	2	19	0:15:00.000	3.6793	11.9965	3.1956	11012.9	2023-03-22 10:30:01
1	2	20	0:15:59.000	3.6802	11.9965	3.3956	11736.2	2023-03-22 10:31:01
1	2	21	0:16:59.000	3.6808	11.9965	3.5955	12472.0	2023-03-22 10:32:01
1	2	22	0:17:59.000	3.6814	11.9965	3.7955	13207.8	2023-03-22 10:33:01
1	2	23	0:18:59.000	3.6821	11.9965	3.9954	13943.8	2023-03-22 10:34:01
1	2	24	0:19:59.000	3.6830	11.9965	4.1954	14680.0	2023-03-22 10:35:01
1	2	25	0:20:59.000	3.6836	11.9965	4.3953	15416.2	2023-03-22 10:36:01
1	2	26	0:21:59.000	3.6842	11.9965	4.5952	16152.7	2023-03-22 10:37:01
1	2		0:22:59.000				16889.2	



1		63		3.7140		11.9964		2023-03-22 11:14:01
1	2	64	1:00:00.000	3.7149	11.9965	12.1930	44261.5	2023-03-22 11:15:01
1	2	65	1:00:59.000	3.7158	11.9965	12.3930	44991.8	2023-03-22 11:16:01
1	2	66	1:01:59.000	3.7168	11.9965	12.5929	45734.7	2023-03-22 11:17:01
1	2	67	1:02:59.000	3.7180	11.9965	12.7928	46477.8	2023-03-22 11:18:01
1	2	68	1:03:59.000	3.7189	11.9965	12.9928	47221.0	2023-03-22 11:19:01
1	2	69	1:04:59.000	3.7199	11.9965	13.1927	47964.5	2023-03-22 11:20:01
1	2	70	1:05:59.000	3.7211	11.9965	13.3927	48708.1	2023-03-22 11:21:01
1	2	71	1:06:59.000	3.7220	11.9965	13.5959	49452.0	2023-03-22 11:22:01
1	2	72	1:08:00.000	3.7233	11.9965	13.7926	50208.5	2023-03-22 11:23:01
1	2	73	1:08:59.000	3.7242	11.9965	13.9925	50940.4	2023-03-22 11:24:01
1	2	74	1:09:59.000	3.7255	11.9965	14.1924	51684.9	2023-03-22 11:25:01
1	2	75	1:10:59.000	3.7264	11.9965	14.3924	52429.7	2023-03-22 11:26:01
1	2	76	1:11:59.000	3.7276	11.9965	14.5923	53174.6	2023-03-22 11:27:01
1	2	77	1:12:59.000	3.7286	11.9965	14.7923	53919.8	2023-03-22 11:28:01
1	2	78	1:13:59.000	3.7298	11.9965	14.9955	54665.2	2023-03-22 11:29:01
1	2	79	1:15:00.000	3.7310	11.9965	15.1955	55423.3	2023-03-22 11:30:01
1	2	80	1:16:00.000	3.7320	11.9965	15.3921	56169.1	2023-03-22 11:31:01
1	2	81	1:16:59.000	3.7332	11.9965	15.5920	56902.8	2023-03-22 11:32:01
1	2	82	1:17:59.000	3.7344	11.9965	15.7953	57649.1	2023-03-22 11:33:01
1	2	83	1:19:00.000	3.7360	11.9965	15.9919	58408.1	2023-03-22 11:34:01
1	2	84	1:19:59.000	3.7372	11.9965	16.1952	59142.5	2023-03-22 11:35:01
1	2	85	1:21:00.000	3.7385	11.9965	16.3918	59902.0	2023-03-22 11:36:01
1	2	86	1:21:59.000	3.7397	11.9965	16.5917	60636.9	2023-03-22 11:37:01
1	2	87	1:22:59.000	3.7410	11.9965	16.7917	61384.5	2023-03-22 11:38:01
1	2	88	1:23:59.000	3.7422	11.9965	16.9916	62132.3	2023-03-22 11:39:01
1	2	89	1:24:59.000	3.7434	11.9965	17.1949	62880.4	2023-03-22 11:40:01
1	2	90	1:26:00.000	3.7450	11.9965	17.3915	63641.2	2023-03-22 11:41:01
1	2	91	1:26:59.000	3.7462	11.9965	17.5915	64377.3	2023-03-22 11:42:01
1	2	92	1:27:59.000	3.7478	11.9965	17.7947	65126.2	2023-03-22 11:43:01
1	2	93	1:29:00.000	3.7493	11.9965	17.9913	65887.9	2023-03-22 11:44:01
1	2	94	1:29:59.000	3.7506	11.9965	18.1913	66624.8	2023-03-22 11:45:01
1	2	95	1:30:59.000	3.7521	11.9965	18.3946	67374.6	2023-03-22 11:46:01
1	2	96	1:32:00.000	3.7534	11.9965	18.5912	68137.2	2023-03-22 11:47:01
1	2	97	1:32:59.000	3.7549	11.9965	18.7911	68875.0	2023-03-22 11:48:01
1	2	98	1:33:59.000	3.7549	11.9965	18.9911	69625.6	2023-03-22 11:49:01
1	2	98	1:34:59.000	3.7565	11.9965		70376.6	

1		99		3.7580		19.1943		2023-03-22 11:50:01
1	2	100	1:36:00.000	3.7599	11.9965	19.3909	71140.3	2023-03-22 11:51:01
1	2	101	1:36:59.000	3.7614	11.9977	19.5909	71879.3	2023-03-22 11:52:01
1	2	102	1:37:59.000	3.7630	11.9977	19.7908	72631.3	2023-03-22 11:53:01
1	2	103	1:38:59.000	3.7645	11.9965	19.9908	73383.5	2023-03-22 11:54:01
1	2	104	1:39:59.000	3.7661	11.9977	20.1941	74136.0	2023-03-22 11:55:01
1	2	105	1:41:00.000	3.7676	11.9965	20.3907	74901.4	2023-03-22 11:56:01
1	2	106	1:41:59.000	3.7695	11.9965	20.5906	75642.1	2023-03-22 11:57:01
1	2	107	1:42:59.000	3.7710	11.9965	20.7906	76395.6	2023-03-22 11:58:01
1	2	108	1:43:59.000	3.7732	11.9965	20.9905	77149.4	2023-03-22 11:59:01
1	2	109	1:44:59.000	3.7748	11.9965	21.1905	77903.6	2023-03-22 12:00:01
1	2	110	1:45:59.000	3.7766	11.9965	21.3904	78658.2	2023-03-22 12:01:01
1	2	111	1:46:59.000	3.7785	11.9965	21.5903	79413.2	2023-03-22 12:02:01
1	2	112	1:47:59.000	3.7803	11.9965	21.7903	80168.4	2023-03-22 12:03:01
1	2	113	1:48:59.000	3.7819	11.9977	21.9902	80924.1	2023-03-22 12:04:01
1	2	114	1:49:59.000	3.7841	11.9965	22.1902	81680.1	2023-03-22 12:05:01
1	2	115	1:50:59.000	3.7862	11.9977	22.3901	82436.5	2023-03-22 12:06:01
1	2	116	1:51:59.000	3.7881	11.9977	22.5901	83193.3	2023-03-22 12:07:01
1	2	117	1:52:59.000	3.7899	11.9977	22.7900	83950.5	2023-03-22 12:08:01
1	2	118	1:53:59.000	3.7921	11.9965	22.9900	84708.1	2023-03-22 12:09:01
1	2	119	1:54:59.000	3.7940	11.9977	23.1899	85466.1	2023-03-22 12:10:01
1	2	120	1:55:59.000	3.7961	11.9977	23.3899	86224.5	2023-03-22 12:11:01
1	2	121	1:56:59.000	3.7983	11.9965	23.5898	86983.3	2023-03-22 12:12:01
1	2	122	1:57:59.000	3.8005	11.9965	23.7898	87742.6	2023-03-22 12:13:01
1	2	123	1:58:59.000	3.8027	11.9977	23.9897	88502.2	2023-03-22 12:14:01
1	2	124	1:59:59.000	3.8048	11.9965	24.1897	89262.3	2023-03-22 12:15:01
1	2	125	2:00:59.000	3.8070	11.9965	24.3896	90022.9	2023-03-22 12:16:01
1	2	126	2:01:59.000	3.8095	11.9965	24.5895	90783.8	2023-03-22 12:17:01
1	2	127	2:02:59.000	3.8120	11.9977	24.7895	91545.3	2023-03-22 12:18:01
1	2	128	2:03:59.000	3.8141	11.9965	24.9928	92307.2	2023-03-22 12:19:01
1	2	129	2:05:00.000	3.8163	11.9977	25.1894	93082.3	2023-03-22 12:20:01
1	2	130	2:05:59.000	3.8185	11.9977	25.3893	93832.4	2023-03-22 12:21:01
1	2	131	2:06:59.000	3.8213	11.9965	25.5893	94595.8	2023-03-22 12:22:01
1	2	132	2:07:59.000	3.8234	11.9965	25.7892	95359.5	2023-03-22 12:23:01
1	2	133	2:08:59.000	3.8259	11.9965	25.9892	96123.8	2023-03-22 12:24:01
1	2	134	2:09:59.000	3.8281	11.9977	26.1891	96888.5	2023-03-22 12:25:01
1	2		2:10:59.000	3.8281	11.9965		97653.7	

1		135		3.8302		26.3891		2023-03-22 12:26:01
1	2	136	2:11:59.000	3.8327	11.9977	26.5890	98419.3	2023-03-22 12:27:01
1	2	137	2:12:59.000	3.8349	11.9977	26.7890	99185.4	2023-03-22 12:28:01
1	2	138	2:13:59.000	3.8371	11.9977	26.9889	99952.0	2023-03-22 12:29:01
1	2	139	2:14:59.000	3.8392	11.9965	27.1889	100719.0	2023-03-22 12:30:01
1	2	140	2:15:59.000	3.8411	11.9965	27.3855	101486.4	2023-03-22 12:31:01
1	2	141	2:16:58.000	3.8433	11.9977	27.5855	102241.4	2023-03-22 12:32:01
1	2	142	2:17:58.000	3.8457	11.9965	27.7854	103009.7	2023-03-22 12:33:01
1	2	143	2:18:58.000	3.8476	11.9965	27.9854	103778.4	2023-03-22 12:34:01
1	2	144	2:19:58.000	3.8495	11.9977	28.1853	104547.5	2023-03-22 12:35:01
1	2	145	2:20:58.000	3.8516	11.9965	28.3853	105317.0	2023-03-22 12:36:01
1	2	146	2:21:58.000	3.8535	11.9965	28.5852	106086.9	2023-03-22 12:37:01
1	2	147	2:22:58.000	3.8554	11.9977	28.7852	106857.3	2023-03-22 12:38:01
1	2	148	2:23:58.000	3.8578	11.9977	28.9851	107628.0	2023-03-22 12:39:01
1	2	149	2:24:58.000	3.8597	11.9965	29.1851	108399.1	2023-03-22 12:40:01
1	2	150	2:25:58.000	3.8616	11.9977	29.3850	109170.6	2023-03-22 12:41:01
1	2	151	2:26:58.000	3.8634	11.9965	29.5850	109942.5	2023-03-22 12:42:01
1	2	152	2:27:58.000	3.8653	11.9965	29.7883	110714.8	2023-03-22 12:43:01
1	2	153	2:28:59.000	3.8671	11.9965	29.9849	111500.3	2023-03-22 12:44:01
1	2	154	2:29:58.000	3.8693	11.9977	30.1849	112260.5	2023-03-22 12:45:01
1	2	155	2:30:58.000	3.8712	11.9977	30.3881	113033.9	2023-03-22 12:46:01
1	2	156	2:31:59.000	3.8730	11.9977	30.5848	113820.7	2023-03-22 12:47:01
1	2	157	2:32:58.000	3.8749	11.9977	30.7847	114582.1	2023-03-22 12:48:01
1	2	158	2:33:58.000	3.8767	11.9977	30.9847	115356.7	2023-03-22 12:49:01
1	2	159	2:34:58.000	3.8786	11.9977	31.1846	116131.7	2023-03-22 12:50:01
1	2	160	2:35:58.000	3.8805	11.9977	31.3846	116907.0	2023-03-22 12:51:01
1	2	161	2:36:58.000	3.8826	11.9977	31.5846	117682.8	2023-03-22 12:52:01
1	2	162	2:37:58.000	3.8845	11.9977	31.7845	118458.9	2023-03-22 12:53:01
1	2	163	2:38:58.000	3.8864	11.9965	31.9845	119235.5	2023-03-22 12:54:01
1	2	164	2:39:58.000	3.8882	11.9977	32.1844	120012.4	2023-03-22 12:55:01
1	2	165	2:40:58.000	3.8901	11.9977	32.3844	120789.7	2023-03-22 12:56:01
1	2	166	2:41:58.000	3.8919	11.9977	32.5843	121567.4	2023-03-22 12:57:01
1	2	167	2:42:58.000	3.8941	11.9977	32.7876	122345.4	2023-03-22 12:58:01
1	2	168	2:43:59.000	3.8960	11.9977	32.9843	123136.8	2023-03-22 12:59:01
1	2	169	2:44:58.000	3.8978	11.9977	33.1842	123902.6	2023-03-22 13:00:01
1	2	170	2:45:58.000	3.8997	11.9977	33.3842	124681.8	2023-03-22 13:01:01
1	2		2:46:58.000		11.9977		125461.4	

1		171		3.9015		33.5841		2023-03-22 13:02:01
1	2	172	2:47:58.000	3.9034	11.9965	33.7841	126241.3	2023-03-22 13:03:01
1	2	173	2:48:58.000	3.9053	11.9977	33.9874	127021.6	2023-03-22 13:04:01
1	2	174	2:49:59.000	3.9074	11.9977	34.1840	127815.3	2023-03-22 13:05:01
1	2	175	2:50:58.000	3.9093	11.9977	34.3839	128583.3	2023-03-22 13:06:01
1	2	176	2:51:58.000	3.9109	11.9965	34.5839	129364.8	2023-03-22 13:07:01
1	2	177	2:52:58.000	3.9127	11.9977	34.7838	130146.6	2023-03-22 13:08:01
1	2	178	2:53:58.000	3.9146	11.9977	34.9838	130928.8	2023-03-22 13:09:01
1	2	179	2:54:58.000	3.9164	11.9965	35.1837	131711.4	2023-03-22 13:10:01
1	2	180	2:55:58.000	3.9186	11.9965	35.3837	132494.3	2023-03-22 13:11:01
1	2	181	2:56:58.000	3.9205	11.9977	35.5836	133277.6	2023-03-22 13:12:01
1	2	182	2:57:58.000	3.9223	11.9977	35.7836	134061.3	2023-03-22 13:13:01
1	2	183	2:58:58.000	3.9242	11.9977	35.9836	134845.5	2023-03-22 13:14:01
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1	2	354	5:49:54.000	4.2016	1.7088	67.0327	261937.3	2023-03-22 16:05:01
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1	2	356	5:51:54.000	4.2016	1.5525	67.0843	262165.1	2023-03-22 16:07:01
1	2	357	5:52:54.000	4.2016	1.4211	67.1082	262270.4	2023-03-22 16:08:01
1	2	358	5:53:54.000	4.2016	1.4285	67.1309	262370.6	2023-03-22 16:09:01
1	2	359	5:54:54.000	4.2016	1.3380	67.1526	262466.3	2023-03-22 16:10:01
1	2	360	5:55:54.000	4.2020	1.2450	67.1730	262557.2	2023-03-22 16:11:01
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1	2	366	6:01:53.000	4.2016	0.9945	67.2800	263023.9	2023-03-22 16:17:01
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1	4	853	7:10:52.000	3.5379	-11.9990	86.3661	327542.9	2023-03-23 00:20:12
1	4	854	7:11:52.000	3.5367	-11.9990	86.5661	328250.5	2023-03-23 00:21:12
1	4		7:12:52.000				328957.9	

1		855		3.5357		86.7661		2023-03-23 00:22:12
1	4	856	7:13:52.000	3.5345	-11.9990	86.9661	329665.0	2023-03-23 00:23:12
1	4	857	7:14:52.000	3.5336	-11.9990	87.1661	330372.0	2023-03-23 00:24:12
1	4	858	7:15:52.000	3.5323	-11.9990	87.3694	331078.7	2023-03-23 00:25:12
1	4	859	7:16:53.000	3.5311	-11.9990	87.5660	331797.0	2023-03-23 00:26:12
1	4	860	7:17:52.000	3.5298	-11.9990	87.7660	332491.5	2023-03-23 00:27:12
1	4	861	7:18:52.000	3.5286	-11.9990	87.9660	333197.6	2023-03-23 00:28:12
1	4	862	7:19:52.000	3.5270	-11.9990	88.1693	333903.4	2023-03-23 00:29:12
1	4	863	7:20:53.000	3.5261	-11.9990	88.3660	334620.7	2023-03-23 00:30:12
1	4	864	7:21:52.000	3.5246	-11.9990	88.5693	335314.1	2023-03-23 00:31:12
1	4	865	7:22:53.000	3.5233	-11.9990	88.7693	336030.9	2023-03-23 00:32:12
1	4	866	7:23:53.000	3.5221	-11.9990	88.9659	336735.7	2023-03-23 00:33:12
1	4	867	7:24:52.000	3.5208	-11.9990	89.1659	337428.4	2023-03-23 00:34:12
1	4	868	7:25:52.000	3.5193	-11.9990	89.3659	338132.6	2023-03-23 00:35:12
1	4	869	7:26:52.000	3.5181	-11.9990	89.5659	338836.6	2023-03-23 00:36:12
1	4	870	7:27:52.000	3.5168	-11.9990	89.7659	339540.3	2023-03-23 00:37:12
1	4	871	7:28:52.000	3.5150	-11.9990	89.9658	340243.7	2023-03-23 00:38:12
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1	4	874	7:31:53.000	3.5106	-11.9990	90.5658	342363.9	2023-03-23 00:41:12
1	4	875	7:32:52.000	3.5091	-11.9990	90.7658	343054.4	2023-03-23 00:42:12
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1	4	879	7:36:52.000	3.5029	-11.9990	91.5657	345860.3	2023-03-23 00:46:12
1	4	880	7:37:52.000	3.5013	-11.9990	91.7690	346561.0	2023-03-23 00:47:12
1	4	881	7:38:53.000	3.5001	-11.9990	91.9657	347273.0	2023-03-23 00:48:12
1	4	882	7:39:52.000	3.4982	-11.9990	92.1657	347961.4	2023-03-23 00:49:12
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1	4	884	7:41:52.000	3.4954	-11.9990	92.5656	349360.7	2023-03-23 00:51:12
1	4	885	7:42:52.000	3.4939	-11.9990	92.7689	350059.9	2023-03-23 00:52:12
1	4	886	7:43:53.000	3.4923	-11.9990	92.9656	350770.4	2023-03-23 00:53:12
1	4	887	7:44:52.000	3.4905	-11.9990	93.1656	351457.3	2023-03-23 00:54:12
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1	4	889	7:46:53.000	3.4877	-11.9990	93.5655	352865.1	2023-03-23 00:56:12
1	4	890	7:47:52.000	3.4861	-11.9990	93.7655	353551.1	2023-03-23 00:57:12
1	4		7:48:52.000				354248.4	

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1	4	893	7:50:52.000	3.4815	-11.9990	94.3688	355642.1	2023-03-23 01:00:12
1	4	894	7:51:53.000	3.4802	-11.9990	94.5655	356350.1	2023-03-23 01:01:12
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1	4	897	7:54:52.000	3.4750	-11.9990	95.1654	358425.8	2023-03-23 01:04:12
1	4	898	7:55:52.000	3.4734	-11.9990	95.3654	359120.9	2023-03-23 01:05:12
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1	4	900	7:57:52.000	3.4703	-11.9990	95.7654	360510.2	2023-03-23 01:07:12
1	4	901	7:58:52.000	3.4688	-11.9990	95.9653	361204.4	2023-03-23 01:08:12
1	4	902	7:59:52.000	3.4669	-11.9990	96.1686	361898.3	2023-03-23 01:09:12
1	4	903	8:00:53.000	3.4654	-11.9990	96.3653	362603.4	2023-03-23 01:10:12
1	4	904	8:01:52.000	3.4638	-11.9990	96.5653	363285.0	2023-03-23 01:11:12
1	4	905	8:02:52.000	3.4626	-11.9990	96.7653	363977.9	2023-03-23 01:12:12
1	4	906	8:03:52.000	3.4610	-11.9990	96.9653	364670.5	2023-03-23 01:13:12
1	4	907	8:04:52.000	3.4595	-11.9990	97.1652	365362.8	2023-03-23 01:14:12
1	4	908	8:05:52.000	3.4585	-11.9990	97.3652	366054.8	2023-03-23 01:15:12
1	4	909	8:06:52.000	3.4570	-11.9990	97.5685	366746.5	2023-03-23 01:16:12
1	4	910	8:07:53.000	3.4557	-11.9990	97.7652	367449.6	2023-03-23 01:17:12
1	4	911	8:08:52.000	3.4542	-11.9990	97.9652	368129.3	2023-03-23 01:18:12
1	4	912	8:09:52.000	3.4530	-11.9990	98.1685	368820.2	2023-03-23 01:19:12
1	4	913	8:10:53.000	3.4517	-11.9990	98.3651	369522.4	2023-03-23 01:20:12
1	4	914	8:11:52.000	3.4505	-11.9990	98.5651	370201.3	2023-03-23 01:21:12
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1	4	916	8:13:52.000	3.4480	-11.9990	98.9651	371581.5	2023-03-23 01:23:12
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1	4	918	8:15:52.000	3.4455	-11.9990	99.3650	372960.6	2023-03-23 01:25:12
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1	4	920	8:17:53.000	3.4427	-11.9990	99.7650	374350.2	2023-03-23 01:27:12
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1	4	923	8:20:52.000	3.4384	-11.9990	100.3650	376403.7	2023-03-23 01:30:12
1	4	924	8:21:52.000	3.4368	-11.9990	100.5649	377091.5	2023-03-23 01:31:12
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1		927		3.4322		101.1649		2023-03-23 01:34:12
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1	4	930	8:27:52.000	3.4266	-11.9990	101.7648	381211.5	2023-03-23 01:37:12
1	4	931	8:28:52.000	3.4247	-11.9990	101.9648	381897.0	2023-03-23 01:38:12
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1	4	933	8:30:52.000	3.4207	-11.9990	102.3648	383266.7	2023-03-23 01:40:12
1	4	934	8:31:52.000	3.4182	-11.9990	102.5648	383951.0	2023-03-23 01:41:12
1	4	935	8:32:52.000	3.4157	-11.9990	102.7648	384634.8	2023-03-23 01:42:12
1	4	936	8:33:52.000	3.4133	-11.9990	102.9647	385318.2	2023-03-23 01:43:12
1	4	937	8:34:52.000	3.4105	-11.9990	103.1647	386001.0	2023-03-23 01:44:12
1	4	938	8:35:52.000	3.4077	-11.9990	103.3647	386683.3	2023-03-23 01:45:12
1	4	939	8:36:52.000	3.4043	-11.9990	103.5647	387365.1	2023-03-23 01:46:12
1	4	940	8:37:52.000	3.4009	-11.9990	103.7647	388046.2	2023-03-23 01:47:12
1	4	941	8:38:52.000	3.3971	-11.9990	103.9647	388726.7	2023-03-23 01:48:12
1	4	942	8:39:52.000	3.3925	-11.9990	104.1646	389406.4	2023-03-23 01:49:12
1	4	943	8:40:52.000	3.3882	-11.9990	104.3646	390085.4	2023-03-23 01:50:12
1	4	944	8:41:52.000	3.3829	-11.9990	104.5646	390763.4	2023-03-23 01:51:12
1	4	945	8:42:52.000	3.3767	-11.9990	104.7679	391440.4	2023-03-23 01:52:12
1	4	946	8:43:53.000	3.3705	-11.9990	104.9646	392127.6	2023-03-23 01:53:12
1	4	947	8:44:52.000	3.3634	-11.9990	105.1646	392791.0	2023-03-23 01:54:12
1	4	948	8:45:52.000	3.3556	-11.9990	105.3645	393464.3	2023-03-23 01:55:12
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1	4	951	8:48:52.000	3.3289	-11.9990	105.9645	395475.1	2023-03-23 01:58:12
1	4	952	8:49:52.000	3.3190	-11.9990	106.1645	396141.7	2023-03-23 01:59:12
1	4	953	8:50:52.000	3.3091	-11.9990	106.3645	396806.5	2023-03-23 02:00:12
1	4	954	8:51:52.000	3.2989	-11.9990	106.5678	397469.4	2023-03-23 02:01:12
1	4	955	8:52:53.000	3.2880	-11.9990	106.7644	398141.1	2023-03-23 02:02:12
1	4	956	8:53:52.000	3.2765	-11.9990	106.9644	398788.7	2023-03-23 02:03:12
1	4	957	8:54:52.000	3.2645	-11.9990	107.1644	399445.1	2023-03-23 02:04:12
1	4	958	8:55:52.000	3.2517	-11.9990	107.3644	400099.2	2023-03-23 02:05:12
1	4	959	8:56:52.000	3.2387	-11.9990	107.5644	400750.8	2023-03-23 02:06:12
1	4	960	8:57:52.000	3.2251	-11.9990	107.7643	401399.8	2023-03-23 02:07:12
1	4	961	8:58:52.000	3.2099	-11.9990	107.9643	402046.1	2023-03-23 02:08:12
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1	4	966	9:03:52.000	3.1218	-11.9990	108.9642	405231.5	2023-03-23 02:13:12
1	4	967	9:04:52.000	3.1005	-11.9990	109.1642	405858.0	2023-03-23 02:14:12
1	4	968	9:05:52.000	3.0766	-11.9990	109.3675	406480.2	2023-03-23 02:15:12
1	4	969	9:06:53.000	3.0505	-11.9990	109.5642	407108.2	2023-03-23 02:16:12
1	4	970	9:07:52.000	3.0214	-11.9990	109.7675	407710.7	2023-03-23 02:17:12
1	4	971	9:08:53.000	2.9889	-11.9990	109.9642	408328.0	2023-03-23 02:18:12
1	4	972	9:09:52.000	2.9513	-11.9990	110.1641	408919.0	2023-03-23 02:19:12
1	4	973	9:10:52.000	2.9055	-11.9990	110.3641	409513.2	2023-03-23 02:20:12
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1	4	975	9:12:52.000	2.7675	-11.9990	110.7640	410674.6	2023-03-23 02:22:12
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1	4	978	9:15:50.000	2.5232	-11.9990	0.0000	412277.8	2023-03-23 02:24:10
1	5	979	0:00:00.000	2.6959	0.0000	0.0000	0.0	2023-03-23 02:25:10
1	5	980	0:00:59.000	2.7492	0.0000	0.0000	0.0	2023-03-23 02:26:10
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2	6	982	0:02:00.000	2.7718	0.0000	0.0000	0.0	2023-03-23 02:26:11
2	6	983	0:00:00.000	2.9194	11.9977	0.1966	0.0	2023-03-23 02:27:11
2	6	984	0:00:59.000	2.9870	11.9977	0.3966	562.3	2023-03-23 02:28:11
2	6	985	0:01:59.000	3.0341	11.9977	0.5966	1153.2	2023-03-23 02:29:11
2	6	986	0:02:59.000	3.0729	11.9977	0.7965	1755.4	2023-03-23 02:30:11
2	6	987	0:03:59.000	3.1060	11.9977	0.9965	2366.0	2023-03-23 02:31:11
2	6	988	0:04:59.000	3.1349	11.9977	1.1964	2983.8	2023-03-23 02:32:11
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2	6	990	0:06:59.000	3.1839	11.9977	1.5997	4237.3	2023-03-23 02:34:11
2	6	991	0:08:00.000	3.2052	11.9977	1.7997	4882.3	2023-03-23 02:35:11
2	6	992	0:09:00.000	3.2248	11.9977	1.9963	5521.2	2023-03-23 02:36:11
2	6	993	0:09:59.000	3.2428	11.9977	2.1962	6153.4	2023-03-23 02:37:11
2	6	994	0:10:59.000	3.2592	11.9977	2.3962	6800.0	2023-03-23 02:38:11
2	6	995	0:11:59.000	3.2753	11.9977	2.5962	7450.0	2023-03-23 02:39:11
2	6	996	0:12:59.000	3.2899	11.9977	2.7961	8103.4	2023-03-23 02:40:11
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2	6	1004	0:20:59.000	3.3841	11.9977	4.3958	13426.9	2023-03-23 02:48:11
2	6	1005	0:21:59.000	3.3931	11.9977	4.5991	14102.6	2023-03-23 02:49:11
2	6	1006	0:23:00.000	3.4021	11.9977	4.7957	14791.5	2023-03-23 02:50:11
2	6	1007	0:23:59.000	3.4108	11.9977	4.9957	15459.6	2023-03-23 02:51:11
2	6	1008	0:24:59.000	3.4192	11.9977	5.1957	16140.7	2023-03-23 02:52:11
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2	6	1010	0:26:59.000	3.4343	11.9965	5.5956	17508.0	2023-03-23 02:54:11
2	6	1011	0:27:59.000	3.4415	11.9977	5.7956	18194.0	2023-03-23 02:55:11
2	6	1012	0:28:59.000	3.4486	11.9977	5.9955	18881.5	2023-03-23 02:56:11
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2	6	1014	0:30:59.000	3.4613	11.9977	6.3988	20260.6	2023-03-23 02:58:11
2	6	1015	0:32:00.000	3.4669	11.9977	6.5987	20963.6	2023-03-23 02:59:11
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2	6	1017	0:34:00.000	3.4762	11.9977	6.9987	22350.1	2023-03-23 03:01:11
2	6	1018	0:35:00.000	3.4793	11.9977	7.1953	23044.8	2023-03-23 03:02:11
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2	6	1020	0:36:59.000	3.4843	11.9977	7.5952	24424.7	2023-03-23 03:04:11
2	6	1021	0:37:59.000	3.4861	11.9977	7.7952	25121.2	2023-03-23 03:05:11
2	6	1022	0:38:59.000	3.4874	11.9977	7.9951	25818.1	2023-03-23 03:06:11
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2	6	1025	0:41:59.000	3.4911	11.9977	8.5950	27910.5	2023-03-23 03:09:11
2	6	1026	0:42:59.000	3.4923	11.9977	8.7950	28608.5	2023-03-23 03:10:11
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2	6	1032	0:48:59.000	3.4982	11.9977	9.9947	32800.8	2023-03-23 03:16:11
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2	6	1067	1:23:59.000	3.5432	11.9977	16.9934	57414.0	2023-03-23 03:51:11
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2	6	1076	1:32:59.000	3.5584	11.9977	18.7930	63801.2	2023-03-23 04:00:11
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2	6	1082	1:38:59.000	3.5683	11.9977	19.9928	68074.2	2023-03-23 04:06:11
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2	6	1109	2:05:59.000	3.6049	11.9977	25.3918	87433.5	2023-03-23 04:33:11
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## Curver

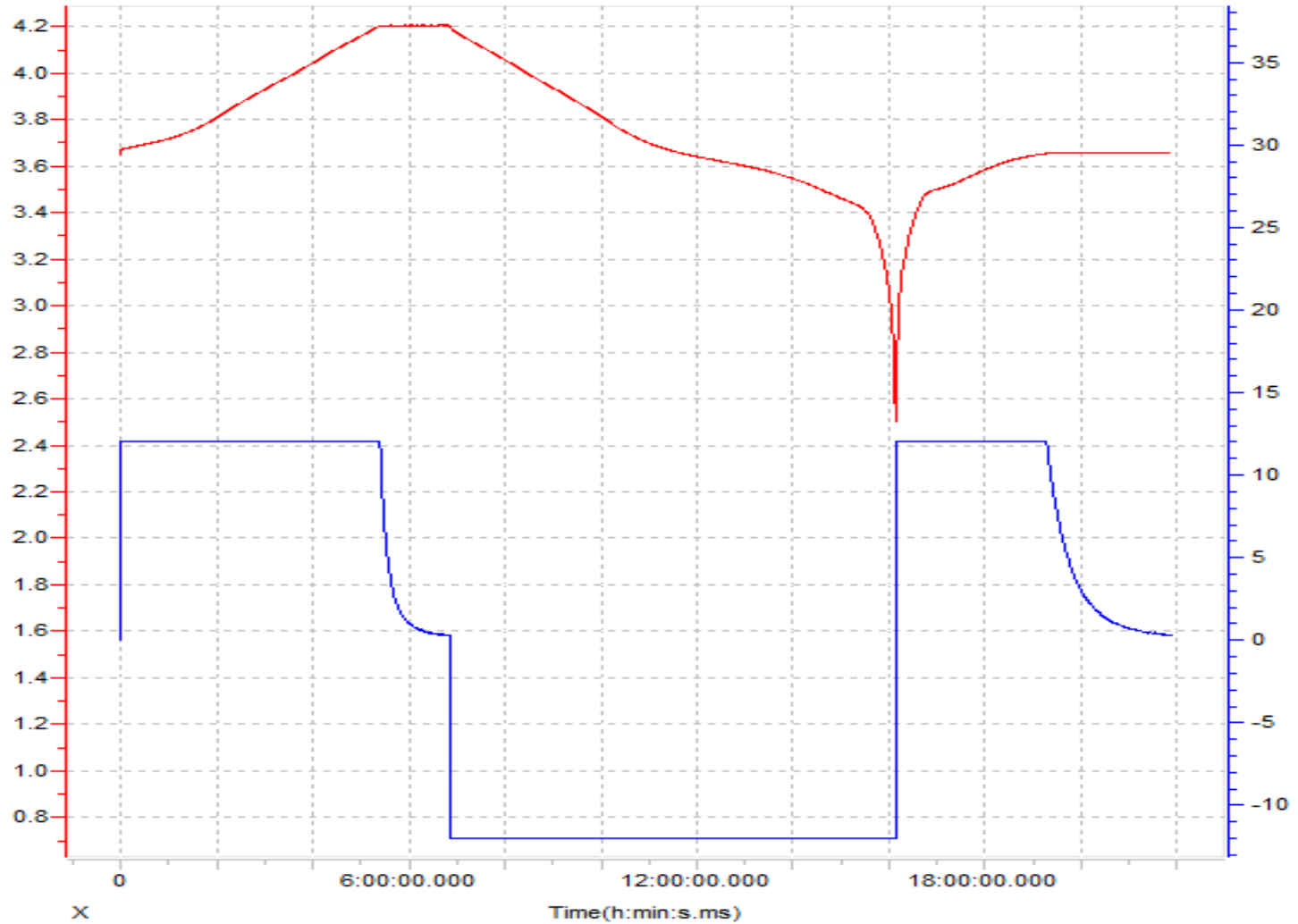
Time--Voltage&&Current

Y2: Voltage(V)

Y3: Current(A)

Y2

Y3

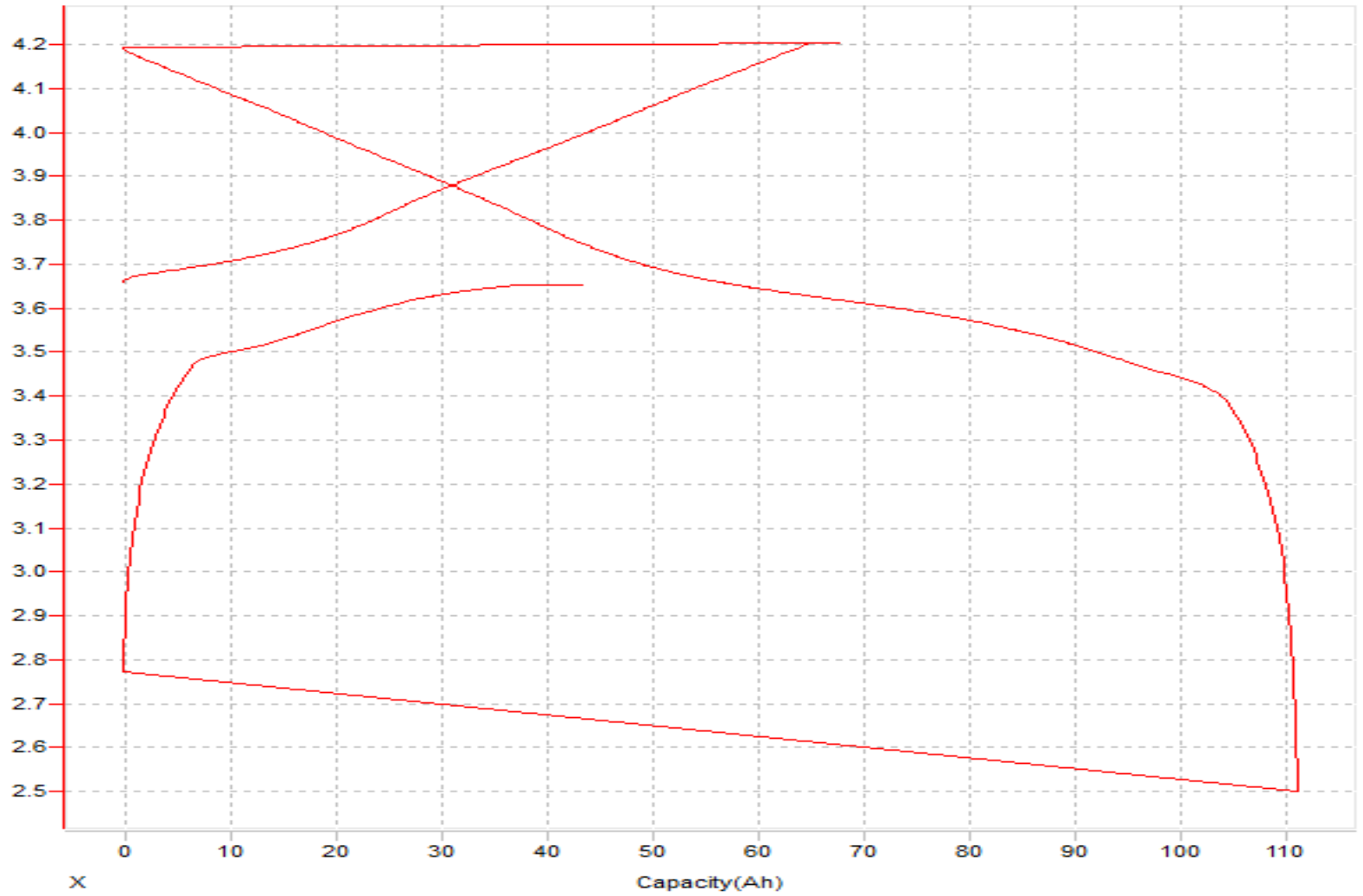




Capacity--Voltage

Y2: Voltage(V)

Y2



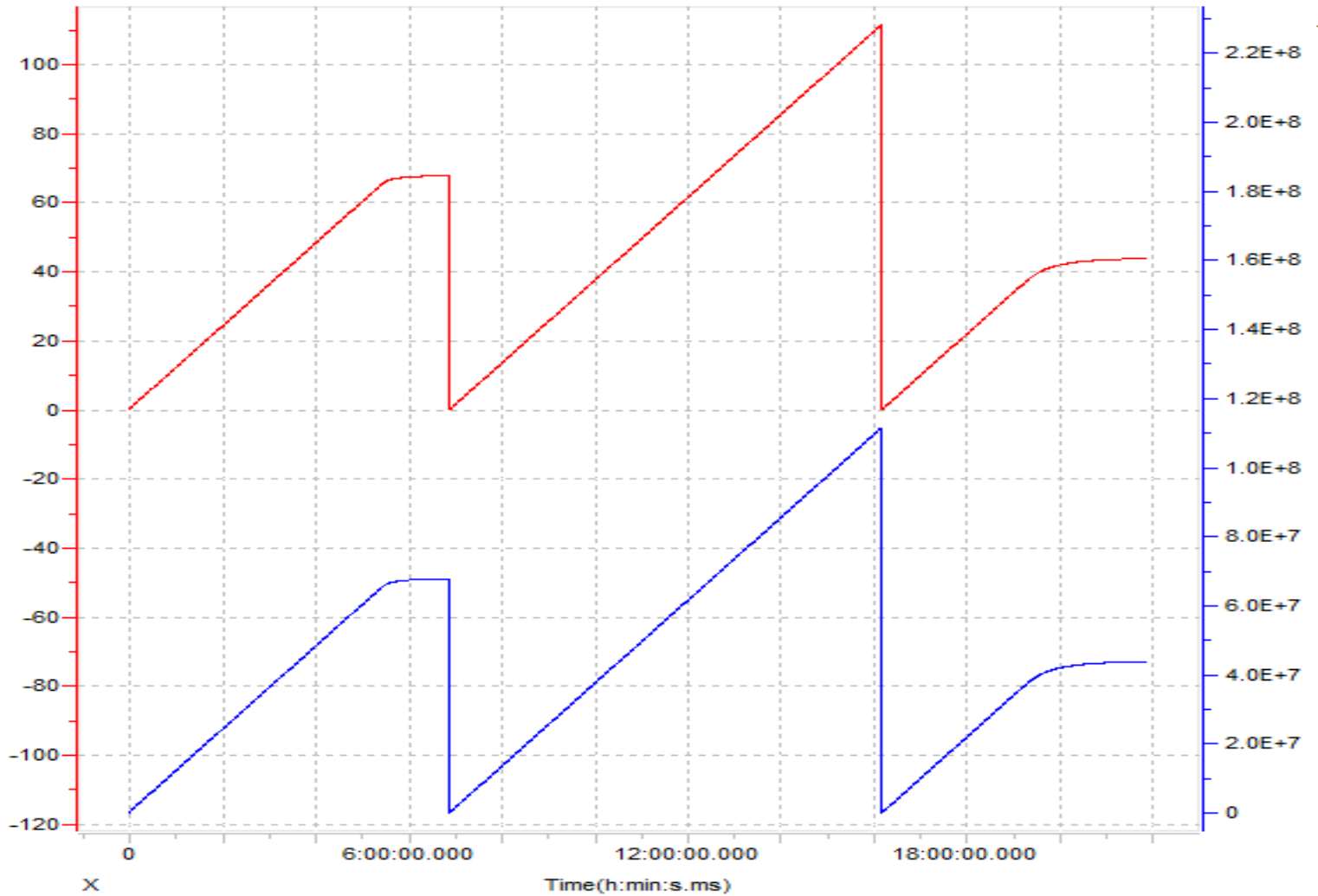
Time--Capacity&&Capacity Density

Y2:Capacity(Ah)

Y3:Capacity Density(Ah/kg)

Y2

Y3



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

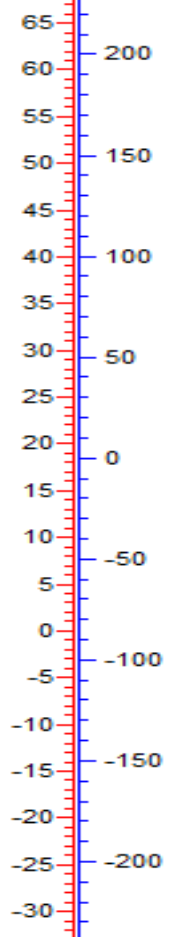
Y2:Cap\_DChg(Ah)

Y1:Cap\_Chg(Ah)

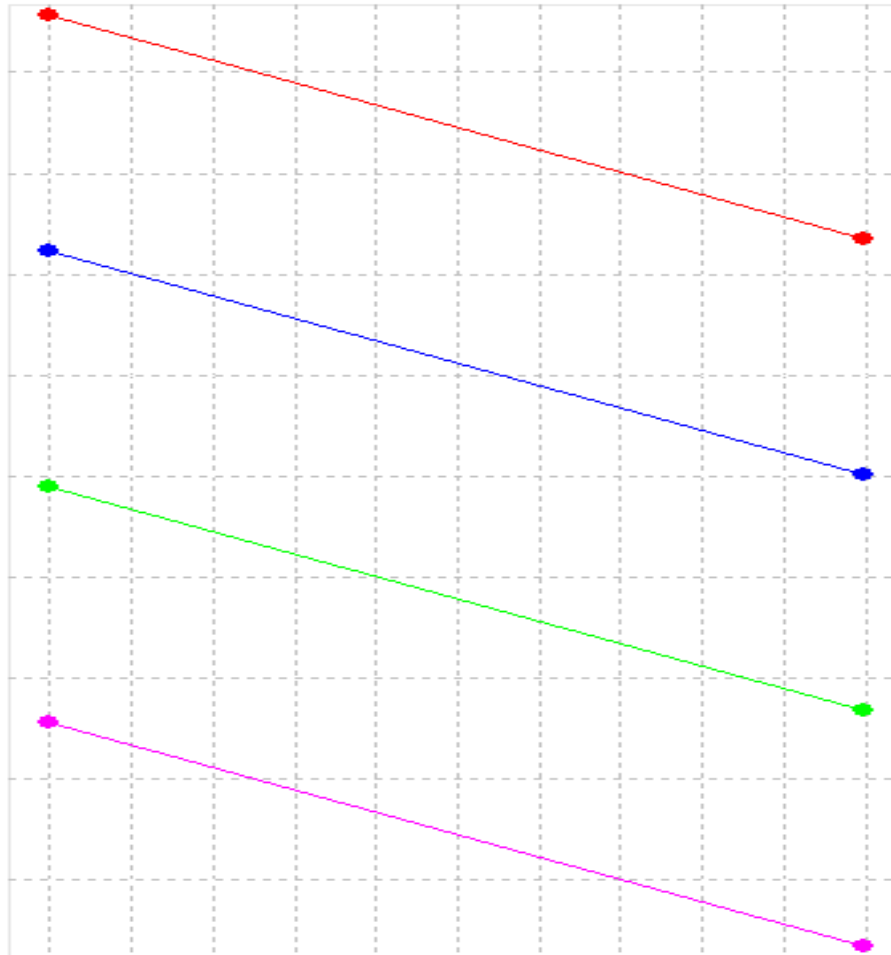
Y4:Specific Capacity-Dchg(Ah)

Y3:Specific Capacity-Chg(Ah)

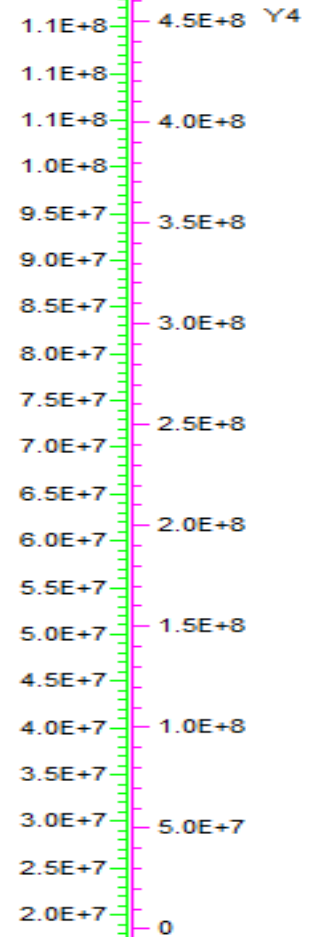
Y1



Y2



Y3



X

Cycle ID

Cycle ID--Chg/DChg Efficiency

Y2:Chg/DChg Efficiency

Y2

