

## 27ah.pdf

Device : 1

Channel : 2

Sub Device : 1

Start Test Time : 2023-05-03 10:44:50

End Test Time :

Nda File Name : D:\7.5.4\NdaData\160001-1-2-6572.nda

## Unit List

Current	Voltage	Capacity	Capacity Density	Energy	EmpEng	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 10-44-49

Cycle counts : -

Lower-limit Voltage : 2.1000(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 10:44:50

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		3.6500	12.0000000			60000.0ms/0.0000V/0.0000A					
3	Rest	0:01:00.000	0.2000				60000.0ms/0.0000V/0.0000A					
4	CC_DChg			12.0000000			60000.0ms/0.0000V/0.0000A					
5	Cycle	Start from Step ID: 1										
6	CCCV_Chg		3.6500	12.0000000			60000.0ms/0.0000V/0.0000A					
7	End											

## Cycle Data

Cycle ID	Cap_Chg(Ah)	Chg/DChg Efficiency(%)	Engy_Chg(mWh)	Engy_DChg(mWh)
1	9.3212	288.980	31670.9	86037.3
2	26.9143	0.0000	90078.7	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		Rest	0:01:00.000	0.0000	0.0	3.2846	3.2905	0.0000	0.0000
1	1	CCCV_Chg	0:01:00.000	9.3212	0.0	3.3125	3.2905	3.3897	0.0000
1	2	Rest	0:52:24.000	0.0000	31670.9	3.6504	3.6514	0.0000	0.0000
1	3	Rest	0:01:00.000	0.0000	0.0	3.6504	3.6290	0.0000	0.0000
1	4	CC_DChg	2:14:42.000	26.9366	86037.3	3.5859	2.1881	0.0000	3.2294
2	5	CCCV_Chg	2:22:06.000	26.9143	90078.7	2.2780	3.6514	3.3603	0.0000

## Record Data

Cycle ID	Step ID	Record ID	Time(h:min:s.ms)	Voltage(V)	Current(A)	Capacity(Ah)	Energy(mlh)	Real time
1		1		3.2846		0.0000		2023-05-03 11:44:59
1	1	2	0:00:00.000	3.2905	0.0000	0.0000	0.0	2023-05-03 10:45:59
1	1	3	0:00:59.000	3.2905	0.0000	0.0000	0.0	2023-05-03 10:45:59
1	1	4	0:01:00.000	3.3125	0.0000	0.0000	0.0	2023-05-03 10:46:00
1	2	5	0:00:00.000	3.3392	11.9977	0.1966	0.0	2023-05-03 10:47:00
1	2	6	0:00:59.000	3.3506	11.9977	0.3966	654.8	2023-05-03 10:48:00
1	2	7	0:01:59.000	3.3599	11.9977	0.5965	1323.7	2023-05-03 10:49:00
1	2	8	0:02:59.000	3.3671	11.9965	0.7965	1994.6	2023-05-03 10:50:00
1	2	9	0:03:59.000	3.3714	11.9977	0.9965	2667.2	2023-05-03 10:51:00
1	2	10	0:04:59.000	3.3739	11.9965	1.1964	3340.9	2023-05-03 10:52:00
1	2	11	0:05:59.000	3.3754	11.9977	1.3964	4015.3	2023-05-03 10:53:00
1	2	12	0:06:59.000	3.3770	11.9977	1.5963	4690.2	2023-05-03 10:54:00
1	2	13	0:07:59.000	3.3779	11.9977	1.7963	5365.3	2023-05-03 10:55:00
1	2	14	0:08:59.000	3.3792	11.9977	1.9996	6040.6	2023-05-03 10:56:00
1	2	15	0:10:00.000	3.3798	11.9977	2.1962	6727.5	2023-05-03 10:57:00
1	2	16	0:10:59.000	3.3807	11.9977	2.3962	7392.0	2023-05-03 10:58:00
1	2	17	0:11:59.000	3.3816	11.9977	2.5961	8067.9	2023-05-03 10:59:00
1	2	18	0:12:59.000	3.3826	11.9965	2.7961	8744.0	2023-05-03 11:00:00
1	2	19	0:13:59.000	3.3835	11.9977	2.9960	9420.2	2023-05-03 11:01:00
1	2	20	0:14:59.000	3.3841	11.9977	3.1927	10096.7	2023-05-03 11:02:00
1	2	21	0:15:58.000	3.3851	11.9965	3.3926	10762.0	2023-05-03 11:03:00
1	2	22	0:16:58.000	3.3857	11.9977	3.5926	11438.8	2023-05-03 11:04:00
1	2	23	0:17:58.000	3.3866	11.9977	3.7925	12115.7	2023-05-03 11:05:00
1	2	24	0:18:58.000	3.3872	11.9965	3.9925	12792.8	2023-05-03 11:06:00
1	2	25	0:19:58.000	3.3882	11.9965	4.1924	13470.0	2023-05-03 11:07:00
1	2	26	0:20:58.000	3.3888	11.9965	4.3924	14147.4	2023-05-03 11:08:00
1	2	27	0:21:58.000	3.3897	11.9965	4.5924	14824.9	2023-05-03 11:08:00
1	2		0:22:58.000		11.9977		15502.6	2023-05-03 11:09:00

1		28		3.3906		4.7956		2023-05-03 11:10:00
1	2	29	0:23:59.000	3.3916	11.9977	4.9956	16191.8	2023-05-03 11:11:00
1	2	30	0:24:59.000	3.3925	11.9965	5.1922	16869.8	2023-05-03 11:12:00
1	2	31	0:25:58.000	3.3934	11.9977	5.3922	17536.8	2023-05-03 11:13:00
1	2	32	0:26:58.000	3.3947	11.9977	5.5921	18215.2	2023-05-03 11:14:00
1	2	33	0:27:58.000	3.3959	11.9965	5.7921	18893.8	2023-05-03 11:15:00
1	2	34	0:28:58.000	3.3971	11.9965	5.9920	19572.7	2023-05-03 11:16:00
1	2	35	0:29:58.000	3.3981	11.9977	6.1919	20251.8	2023-05-03 11:17:00
1	2	36	0:30:58.000	3.3993	11.9965	6.3952	20931.2	2023-05-03 11:18:00
1	2	37	0:31:59.000	3.4006	11.9965	6.5918	21622.1	2023-05-03 11:19:00
1	2	38	0:32:58.000	3.4018	11.9965	6.7951	22290.5	2023-05-03 11:20:00
1	2	39	0:33:59.000	3.4033	11.9965	6.9917	22981.9	2023-05-03 11:21:00
1	2	40	0:34:58.000	3.4049	11.9965	7.1917	23650.9	2023-05-03 11:22:00
1	2	41	0:35:58.000	3.4071	11.9977	7.3916	24331.6	2023-05-03 11:23:00
1	2	42	0:36:58.000	3.4089	11.9965	7.5916	25012.6	2023-05-03 11:24:00
1	2	43	0:37:58.000	3.4114	11.9965	7.7915	25694.0	2023-05-03 11:25:00
1	2	44	0:38:58.000	3.4142	11.9965	7.9915	26375.8	2023-05-03 11:26:00
1	2	45	0:39:58.000	3.4179	11.9965	8.1947	27058.2	2023-05-03 11:27:00
1	2	46	0:40:59.000	3.4235	11.9965	8.3947	27752.6	2023-05-03 11:28:00
1	2	47	0:41:59.000	3.4306	11.9965	8.5913	28436.5	2023-05-03 11:29:00
1	2	48	0:42:58.000	3.4443	11.9965	8.7912	29110.3	2023-05-03 11:30:00
1	2	49	0:43:58.000	3.4771	11.9977	8.9912	29797.5	2023-05-03 11:31:00
1	2	50	0:44:58.000	3.6554	11.9965	9.1911	30488.8	2023-05-03 11:32:00
1	2	51	0:45:58.000	3.6514	2.1093	9.2658	31195.9	2023-05-03 11:33:00
1	2	52	0:46:58.000	3.6514	0.9672	9.2896	31468.3	2023-05-03 11:34:00
1	2	53	0:47:58.000	3.6514	0.5642	9.3020	31555.3	2023-05-03 11:35:00
1	2	54	0:48:58.000	3.6514	0.3819	9.3099	31600.5	2023-05-03 11:36:00
1	2	55	0:49:58.000	3.6514	0.3000	9.3154	31629.4	2023-05-03 11:37:00
1	2	56	0:50:58.000	3.6514	0.2207	9.3197	31649.7	2023-05-03 11:38:00
1	2	57	0:51:58.000	3.6514	0.1996	9.3212	31665.2	2023-05-03 11:38:25
1	3	58	0:52:24.000	3.6504	0.0000	0.0000	31670.9	2023-05-03 11:38:26
1	3	59	0:00:00.000	3.6290	0.0000	0.0000	0.0	2023-05-03 11:39:26
1	3	60	0:00:59.000	3.6290	0.0000	0.0000	0.0	2023-05-03 11:39:26
1	4	61	0:01:00.000	3.5859	-11.9990	0.0000	0.0	2023-05-03 11:39:27
1	4	62	0:01:00.000	3.3293	-11.9990	0.2000	678.0	2023-05-03 11:40:27
1	4	63	0:01:59.000	3.2880	-11.9990	0.3966	1327.8	2023-05-03 11:41:27

1		64		3.2787		0.5966		2023-05-03 11:42:27
1	4	65	0:02:59.000	3.2775	-11.9990	0.7999	1984.1	2023-05-03 11:43:27
1	4	66	0:04:00.000	3.2772	-11.9977	0.9965	2650.5	2023-05-03 11:44:27
1	4	67	0:04:59.000	3.2769	-11.9977	1.1998	3295.0	2023-05-03 11:45:27
1	4	68	0:06:00.000	3.2765	-11.9990	1.3998	3961.2	2023-05-03 11:46:27
1	4	69	0:07:00.000	3.2765	-11.9990	1.5965	4616.4	2023-05-03 11:47:27
1	4	70	0:08:59.000	3.2762	-11.9990	1.7965	5260.8	2023-05-03 11:48:27
1	4	71	0:09:59.000	3.2759	-11.9990	1.9964	5915.9	2023-05-03 11:49:27
1	4	72	0:10:59.000	3.2756	-11.9990	2.1964	6571.1	2023-05-03 11:50:27
1	4	73	0:11:59.000	3.2753	-11.9990	2.3964	7226.2	2023-05-03 11:51:27
1	4	74	0:12:59.000	3.2750	-11.9990	2.5964	7881.2	2023-05-03 11:52:27
1	4	75	0:13:59.000	3.2747	-11.9990	2.7964	8536.2	2023-05-03 11:53:27
1	4	76	0:14:59.000	3.2744	-11.9990	2.9963	9191.1	2023-05-03 11:54:27
1	4	77	0:15:59.000	3.2741	-11.9990	3.1963	9845.9	2023-05-03 11:55:27
1	4	78	0:16:59.000	3.2738	-11.9990	3.3963	10500.7	2023-05-03 11:56:27
1	4	79	0:18:00.000	3.2731	-11.9990	3.5996	11155.4	2023-05-03 11:57:27
1	4	80	0:18:59.000	3.2728	-11.9990	3.7963	11820.9	2023-05-03 11:58:27
1	4	81	0:19:59.000	3.2719	-11.9990	3.9962	12464.5	2023-05-03 11:59:27
1	4	82	0:20:59.000	3.2716	-11.9990	4.1962	13119.0	2023-05-03 12:00:27
1	4	83	0:22:00.000	3.2710	-11.9990	4.3995	13773.3	2023-05-03 12:01:27
1	4	84	0:23:00.000	3.2703	-11.9990	4.5995	14438.4	2023-05-03 12:02:27
1	4	85	0:23:59.000	3.2700	-11.9990	4.7962	15092.5	2023-05-03 12:03:27
1	4	86	0:24:59.000	3.2694	-11.9990	4.9961	15735.5	2023-05-03 12:04:27
1	4	87	0:25:59.000	3.2688	-11.9990	5.1961	16389.4	2023-05-03 12:05:27
1	4	88	0:26:59.000	3.2679	-11.9990	5.3994	17043.1	2023-05-03 12:06:27
1	4	89	0:27:00.000	3.2672	-11.9990	5.5961	17707.6	2023-05-03 12:07:27
1	4	90	0:27:59.000	3.2666	-11.9990	5.7961	18350.2	2023-05-03 12:08:27
1	4	91	0:28:59.000	3.2657	-11.9977	5.9960	19003.5	2023-05-03 12:09:27
1	4	92	0:29:59.000	3.2648	-11.9990	6.1993	19656.6	2023-05-03 12:10:27
1	4	93	0:31:00.000	3.2638	-11.9990	6.3960	20320.5	2023-05-03 12:11:27
1	4	94	0:31:59.000	3.2626	-11.9990	6.5960	20962.4	2023-05-03 12:12:27
1	4	95	0:32:59.000	3.2617	-11.9990	6.7959	21615.0	2023-05-03 12:13:27
1	4	96	0:33:59.000	3.2604	-11.9990	6.9959	22267.3	2023-05-03 12:14:27
1	4	97	0:34:59.000	3.2589	-11.9990	7.1959	22919.5	2023-05-03 12:15:27
1	4	98	0:35:59.000	3.2573	-11.9990	7.3959	23571.3	2023-05-03 12:16:27
1	4	99	0:36:59.000	3.2561	-11.9990	7.5959	24222.9	2023-05-03 12:16:27
1	4		0:37:59.000		-11.9990		24874.1	2023-05-03 12:17:27

1		100		3.2545		7.7958		25525.1	2023-05-03 12:18:27
1	4	101	0:38:59.000	3.2530	-11.9990	7.9958		26175.8	2023-05-03 12:19:27
1	4	102	0:39:59.000	3.2511	-11.9990	8.1991		26837.0	2023-05-03 12:20:27
1	4	103	0:41:00.000	3.2499	-11.9990	8.3958		27476.2	2023-05-03 12:21:27
1	4	104	0:41:59.000	3.2483	-11.9990	8.5991		28136.7	2023-05-03 12:22:27
1	4	105	0:43:00.000	3.2468	-11.9977	8.7957		28775.3	2023-05-03 12:23:27
1	4	106	0:45:00.000	3.2455	-11.9977	8.9990		29435.3	2023-05-03 12:24:27
1	4	107	0:45:59.000	3.2443	-11.9990	9.1957		30073.4	2023-05-03 12:25:27
1	4	108	0:46:59.000	3.2434	-11.9977	9.3957		30722.1	2023-05-03 12:26:27
1	4	109	0:48:00.000	3.2424	-11.9990	9.5990		31381.4	2023-05-03 12:27:27
1	4	110	0:48:59.000	3.2415	-11.9990	9.7956		32018.9	2023-05-03 12:28:27
1	4	111	0:50:00.000	3.2409	-11.9990	9.9989		32677.8	2023-05-03 12:29:27
1	4	112	0:50:59.000	3.2403	-11.9990	10.1956		33315.1	2023-05-03 12:30:27
1	4	113	0:52:00.000	3.2397	-11.9977	10.3989		33973.8	2023-05-03 12:31:27
1	4	114	0:52:59.000	3.2390	-11.9990	10.5989		34621.6	2023-05-03 12:32:27
1	4	115	0:53:00.000	3.2384	-11.9990	10.7988		35269.2	2023-05-03 12:33:27
1	4	116	0:54:00.000	3.2378	-11.9990	10.9955		35905.9	2023-05-03 12:34:27
1	4	117	0:54:59.000	3.2372	-11.9990	11.1954		36553.3	2023-05-03 12:35:27
1	4	118	0:55:59.000	3.2366	-11.9990	11.3954		37200.6	2023-05-03 12:36:27
1	4	119	0:56:59.000	3.2359	-11.9977	11.5954		37847.8	2023-05-03 12:37:27
1	4	120	0:58:59.000	3.2353	-11.9977	11.7954		38494.8	2023-05-03 12:38:27
1	4	121	0:59:59.000	3.2344	-11.9990	11.9953		39141.7	2023-05-03 12:39:27
1	4	122	1:01:00.000	3.2338	-11.9977	12.1987		39799.2	2023-05-03 12:40:27
1	4	123	1:01:59.000	3.2331	-11.9990	12.3953		40435.0	2023-05-03 12:41:27
1	4	124	1:03:00.000	3.2325	-11.9990	12.5986		41092.3	2023-05-03 12:42:27
1	4	125	1:03:59.000	3.2316	-11.9990	12.7952		41727.8	2023-05-03 12:43:27
1	4	126	1:04:59.000	3.2310	-11.9977	12.9952		42373.9	2023-05-03 12:44:27
1	4	127	1:06:00.000	3.2300	-11.9977	13.1985		43030.7	2023-05-03 12:45:27
1	4	128	1:06:59.000	3.2294	-11.9977	13.3951		43665.8	2023-05-03 12:46:27
1	4	129	1:07:59.000	3.2285	-11.9977	13.5951		44311.4	2023-05-03 12:47:27
1	4	130	1:08:59.000	3.2279	-11.9977	13.7950		44957.0	2023-05-03 12:48:27
1	4	131	1:09:59.000	3.2269	-11.9977	13.9950		45602.3	2023-05-03 12:49:27
1	4	132	1:10:59.000	3.2260	-11.9977	14.1950		46247.5	2023-05-03 12:50:27
1	4	133	1:11:59.000	3.2251	-11.9977	14.3949		46892.5	2023-05-03 12:51:27
1	4	134	1:12:59.000	3.2242	-11.9977	14.5949		47537.3	2023-05-03 12:52:27
1	4	135	1:13:59.000	3.2232	-11.9990	14.7948		48181.9	2023-05-03 12:53:27

1		136		3.2220		14.9948		2023-05-03 12:54:27
1	4	137	1:14:59.000	3.2211	-11.9977	15.1981	48826.4	2023-05-03 12:55:27
1	4	138	1:16:00.000	3.2201	-11.9977	15.3981	49481.3	2023-05-03 12:56:27
1	4	139	1:17:00.000	3.2189	-11.9977	15.5947	50125.3	2023-05-03 12:57:27
1	4	140	1:17:59.000	3.2176	-11.9977	15.7947	50758.3	2023-05-03 12:58:27
1	4	141	1:18:59.000	3.2164	-11.9977	15.9946	51401.9	2023-05-03 12:59:27
1	4	142	1:19:59.000	3.2152	-11.9977	16.1946	52045.2	2023-05-03 13:00:27
1	4	143	1:20:59.000	3.2139	-11.9977	16.3945	52688.2	2023-05-03 13:01:27
1	4	144	1:21:59.000	3.2130	-11.9977	16.5945	53331.0	2023-05-03 13:02:27
1	4	145	1:22:59.000	3.2118	-11.9977	16.7945	53973.5	2023-05-03 13:03:27
1	4	146	1:23:59.000	3.2105	-11.9977	16.9944	54615.9	2023-05-03 13:04:27
1	4	147	1:24:59.000	3.2090	-11.9977	17.1944	55258.0	2023-05-03 13:05:27
1	4	148	1:25:59.000	3.2077	-11.9977	17.3944	55899.8	2023-05-03 13:06:27
1	4	149	1:26:59.000	3.2065	-11.9977	17.5943	56541.4	2023-05-03 13:07:27
1	4	150	1:27:59.000	3.2052	-11.9990	17.7943	57182.7	2023-05-03 13:08:27
1	4	151	1:28:59.000	3.2037	-11.9977	17.9943	57823.8	2023-05-03 13:09:27
1	4	152	1:29:59.000	3.2021	-11.9990	18.1942	58464.5	2023-05-03 13:10:27
1	4	153	1:30:59.000	3.2006	-11.9977	18.3942	59105.0	2023-05-03 13:11:27
1	4	154	1:31:59.000	3.2006	-11.9990	18.5942	59745.2	2023-05-03 13:12:27
1	4	155	1:32:59.000	3.1990	-11.9977	18.7941	60385.1	2023-05-03 13:13:27
1	4	156	1:33:59.000	3.1972	-11.9977	18.9941	61024.6	2023-05-03 13:14:27
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1	4	158	1:35:59.000	3.1938	-11.9977	19.3940	62302.6	2023-05-03 13:16:27
1	4	159	1:36:59.000	3.1919	-11.9977	19.5940	62941.0	2023-05-03 13:17:27
1	4	160	1:37:59.000	3.1901	-11.9990	19.7940	63579.1	2023-05-03 13:18:27
1	4	161	1:38:59.000	3.1882	-11.9990	19.9939	64216.8	2023-05-03 13:19:27
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1	4	164	1:41:59.000	3.1814	-11.9990	20.5939	66127.4	2023-05-03 13:22:27
1	4	165	1:42:59.000	3.1789	-11.9990	20.7938	66763.4	2023-05-03 13:23:27
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1	4	167	1:45:00.000	3.1733	-11.9990	21.1938	68044.2	2023-05-03 13:25:27
1	4	168	1:45:59.000	3.1699	-11.9990	21.3938	68667.9	2023-05-03 13:26:27
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1	4	175	1:52:59.000	3.1367	-11.9990	22.7936	73087.0	2023-05-03 13:33:27
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1	4	180	1:57:59.000	3.1144	-11.9990	23.7968	76216.2	2023-05-03 13:38:27
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2	4	197	2:14:42.000	2.2780	-11.9990	0.0000	86037.3	2023-05-03 13:54:11
2	5	198	0:00:00.000	2.8156	11.9977	0.1966	0.0	2023-05-03 13:55:11
2	5	199	0:00:59.000	2.9427	11.9977	0.3966	523.1	2023-05-03 13:56:11
2	5	200	0:01:59.000	3.0217	11.9977	0.5999	1099.8	2023-05-03 13:57:11
2	5	201	0:03:00.000	3.0809	11.9977	0.7965	1706.5	2023-05-03 13:58:11
2	5	202	0:03:59.000	3.1268	11.9977	0.9998	2306.8	2023-05-03 13:59:11
2	5	203	0:05:00.000	3.1653	11.9977	1.1998	2938.0	2023-05-03 14:00:11
2	5	204	0:06:00.000	3.1963	11.9977	1.3964	3567.2	2023-05-03 14:01:11
2	5	205	0:06:59.000	3.2235	11.9977	1.5997	4192.7	2023-05-03 14:02:11
2	5	206	0:08:00.000	3.2459	11.9977	1.7963	4845.4	2023-05-03 14:03:11
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2	5	209	0:10:59.000	3.2654	11.9977	2.3962	6784.4	2023-05-03 14:06:11
2	5	210	0:11:59.000	3.2672	11.9977	2.5995	7437.1	2023-05-03 14:07:11
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2	5	216	0:17:59.000	3.2821	11.9965	3.7959	11362.0	2023-05-03 14:13:11
2	5	217	0:18:59.000	3.2862	11.9977	3.9958	12018.0	2023-05-03 14:14:11
2	5	218	0:19:59.000	3.2902	11.9977	4.1958	12674.6	2023-05-03 14:15:11
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2	5	237	0:38:59.000	3.3488	11.9977	7.9950	25294.0	2023-05-03 14:34:11
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2	5	243	0:44:59.000	3.3513	11.9977	8.9948	29313.1	2023-05-03 14:40:11
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2	5	304	1:45:57.000	3.3975	11.9977	21.3858	70413.0	2023-05-03 15:41:11
2	5	305	1:46:57.000	3.3984	11.9977	21.5857	71092.4	2023-05-03 15:42:11
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2		316		3.4099		23.7786		2023-05-03 15:53:11
2	5	317	1:58:55.000	3.4111	11.9977	23.9819	79236.3	2023-05-03 15:54:11
2	5	318	1:59:56.000	3.4126	11.9977	24.1786	79929.6	2023-05-03 15:55:11
2	5	319	2:00:55.000	3.4142	11.9977	24.3819	80600.5	2023-05-03 15:56:11
2	5	320	2:01:56.000	3.4164	11.9977	24.5785	81294.4	2023-05-03 15:57:11
2	5	321	2:02:55.000	3.4185	11.9977	24.7784	81966.0	2023-05-03 15:58:11
2	5	322	2:03:55.000	3.4216	11.9977	24.9784	82649.3	2023-05-03 15:59:11
2	5	323	2:04:55.000	3.4247	11.9977	25.1817	83333.2	2023-05-03 16:00:11
2	5	324	2:05:56.000	3.4288	11.9977	25.3817	84029.2	2023-05-03 16:01:11
2	5	325	2:06:56.000	3.4340	11.9977	25.5783	84714.4	2023-05-03 16:02:11
2	5	326	2:07:55.000	3.4409	11.9977	25.7816	85389.1	2023-05-03 16:03:11
2	5	327	2:08:56.000	3.4505	11.9977	25.9782	86087.8	2023-05-03 16:04:11
2	5	328	2:09:55.000	3.4657	11.9977	26.1782	86765.3	2023-05-03 16:05:11
2	5	329	2:10:55.000	3.4945	11.9977	26.3781	87456.6	2023-05-03 16:06:11
2	5	330	2:11:55.000	3.5633	11.9977	26.5814	88152.1	2023-05-03 16:07:11
2	5	331	2:12:56.000	3.6514	11.9977	26.7496	88868.3	2023-05-03 16:08:11
2	5	332	2:13:55.000	3.6514	6.3070	26.8210	89477.1	2023-05-03 16:09:11
2	5	333	2:14:55.000	3.6514	2.8484	26.8562	89737.8	2023-05-03 16:10:11
2	5	334	2:15:55.000	3.6514	1.5252	26.8562	89866.4	2023-05-03 16:10:11
2	5	335	2:16:55.000	3.6514	0.9412	26.8764	89940.3	2023-05-03 16:11:11
2	5	336	2:17:55.000	3.6514	0.6312	26.8894	89987.5	2023-05-03 16:12:11
2	5	337	2:18:55.000	3.6514	0.4588	26.8983	90020.1	2023-05-03 16:13:11
2	5	338	2:19:55.000	3.6514	0.3348	26.9048	90043.9	2023-05-03 16:14:11
2	5	339	2:20:55.000	3.6514	0.2628	26.9098	90062.0	2023-05-03 16:15:11
2	5	340	2:21:55.000	3.6514	0.2083	26.9137	90076.4	2023-05-03 16:16:11
2	5		2:22:06.000	3.6514	0.1971	26.9143	90078.7	2023-05-03 16:16:21

## Curver

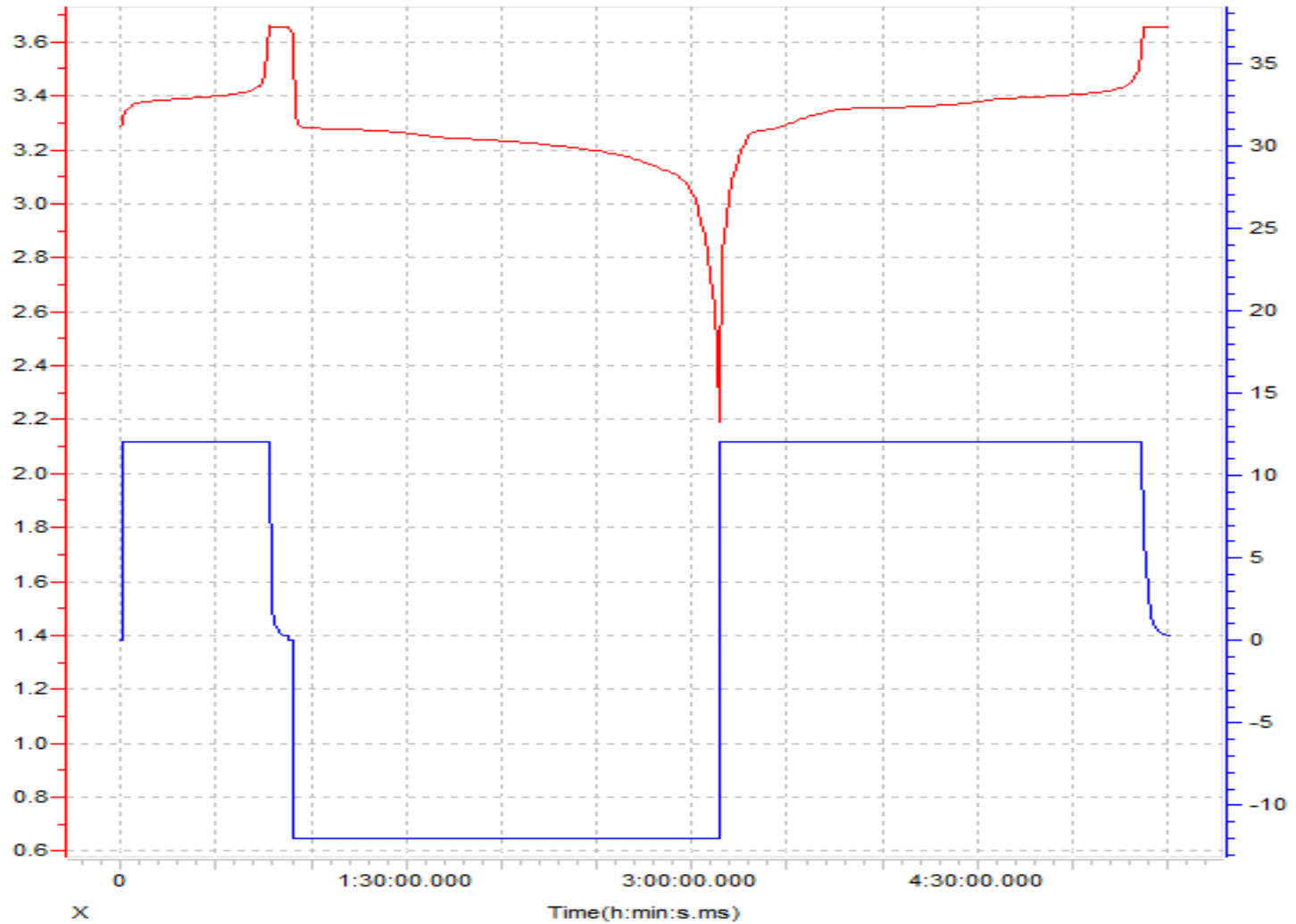
Time--Voltage&&Current

Y2: Voltage(V)

Y3: Current(A)

Y2

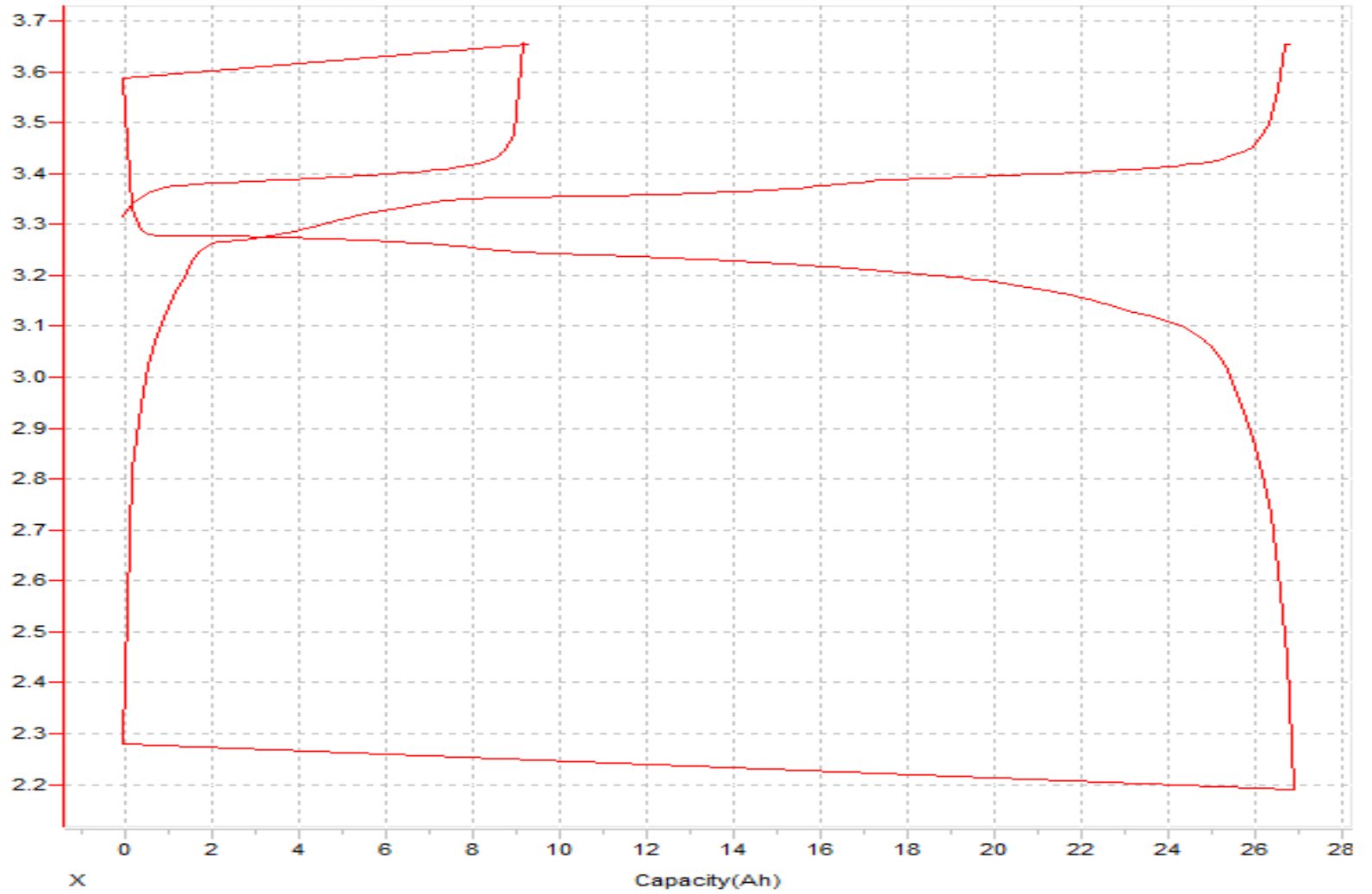
Y3



Capacity--Voltage

Y2: Voltage(V)

Y2



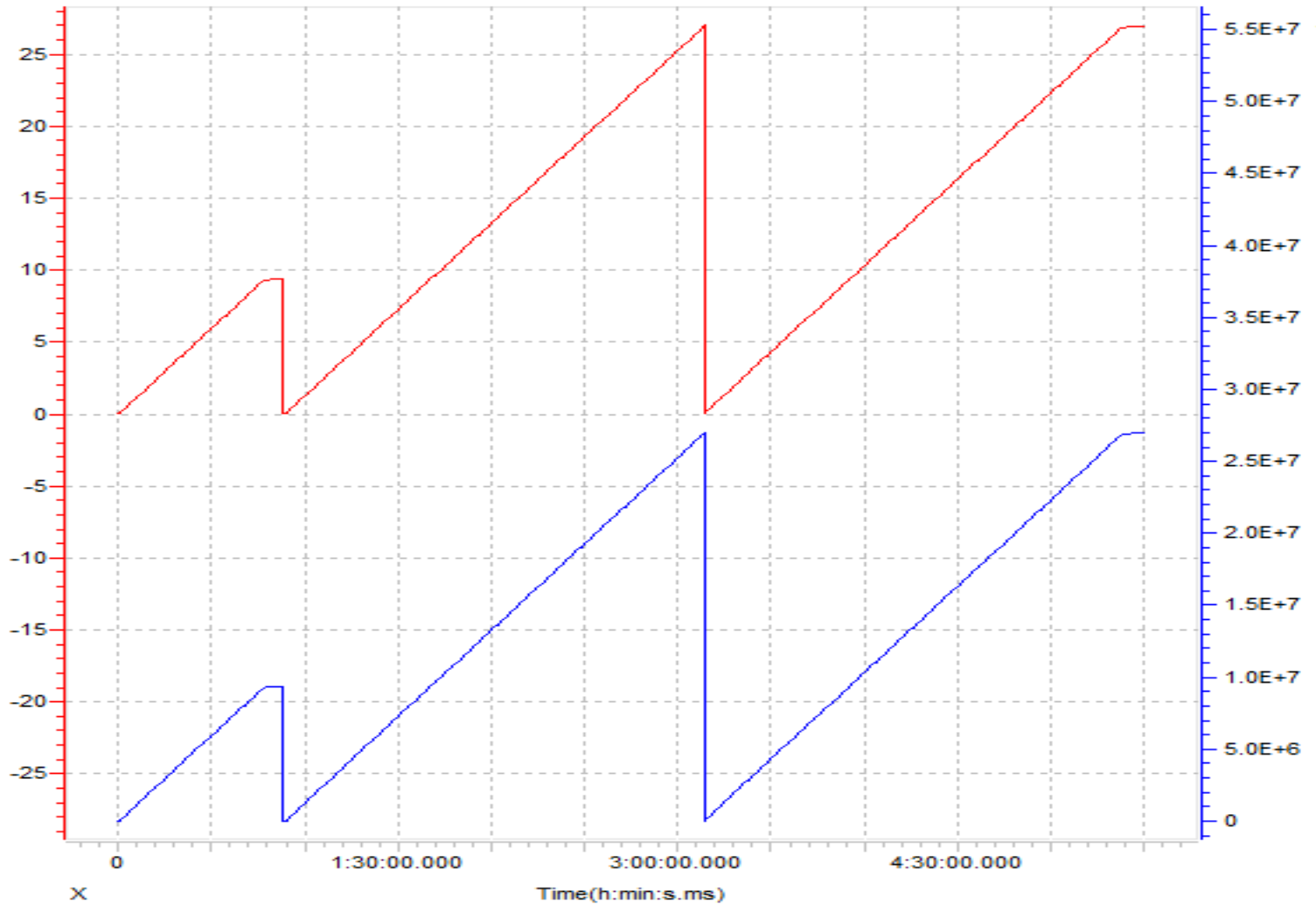
Time--Capacity&&Capacity Density

Y2:Capacity(Ah)

Y3:Capacity Density(Ah/kg)

Y2

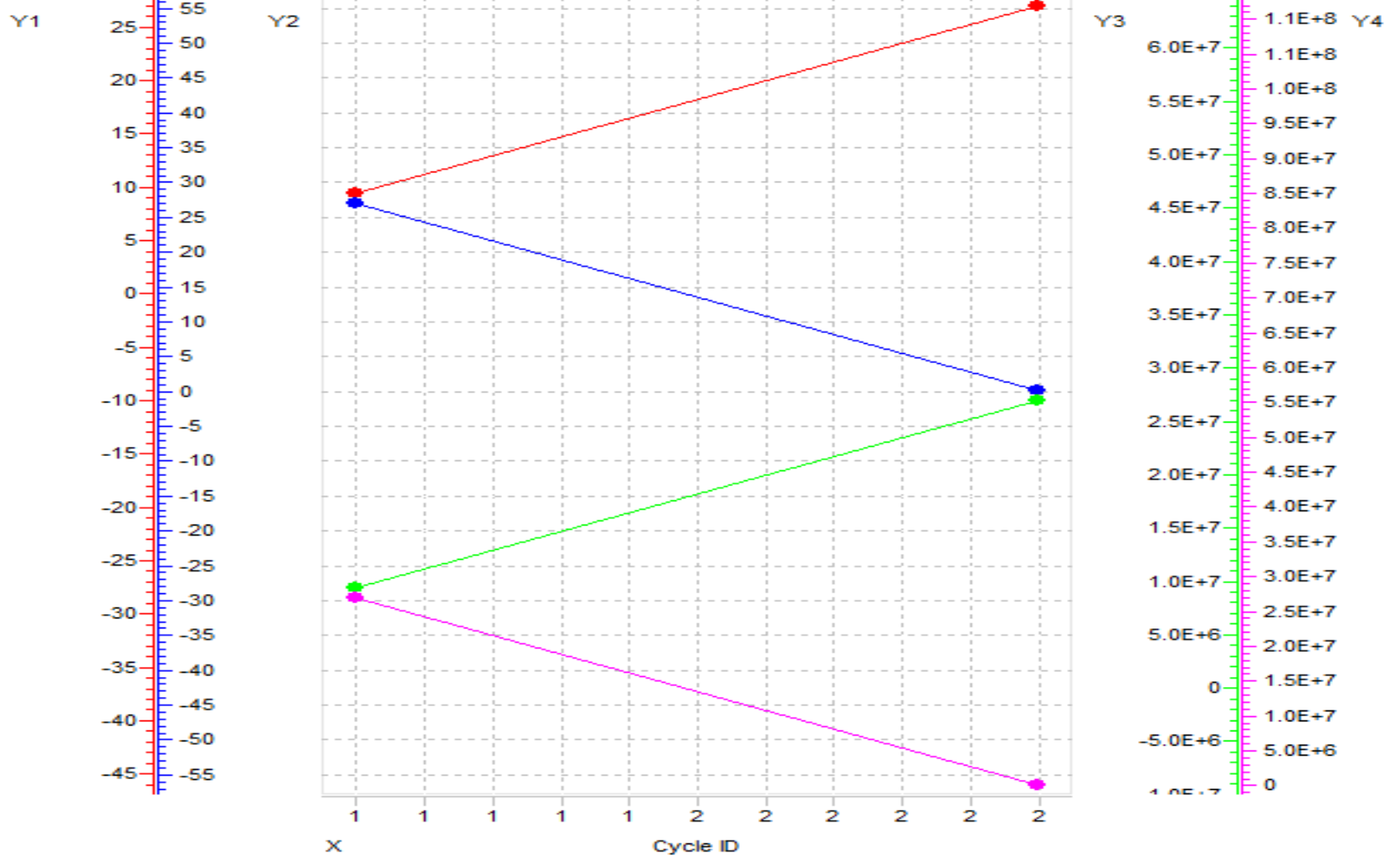
Y3



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)



Cycle ID--Chg/DChg Efficiency

Y2:Chg/DChg Efficiency

Y2

