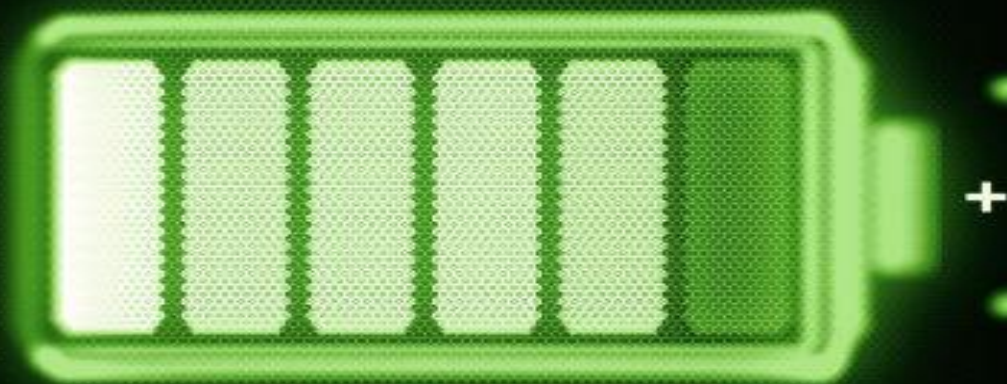


HL18650V电芯 技术介绍



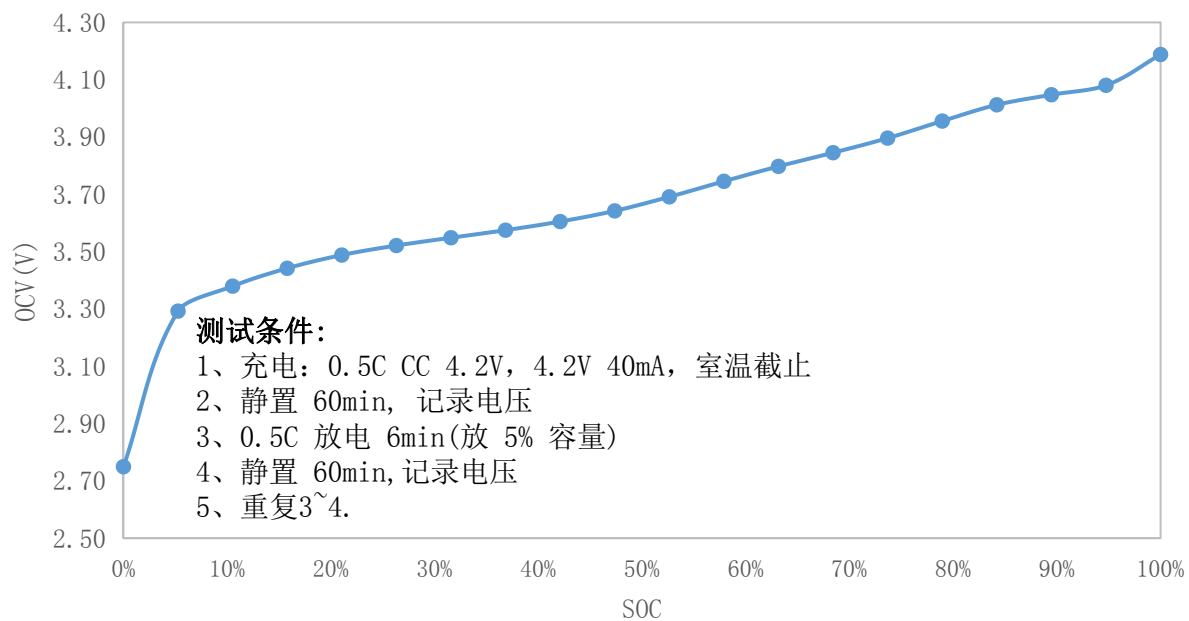
电芯基本信息

型号		HL18650V
尺寸	直径	18.3±0.2 mm
	高度	65.2±0.3 mm
容量	最小容量 (0.2C)	2800mAh
	典型容量 (0.2C)	2900mAh
	倍率容量 (10A)	≈2700mAh
典型电压		3.60V
工作电压		2.75V - 4.20V
最大持续充电/放电电流		1.4 A / 10 A
循环寿命 (室温, 0.5 C/1.0C)		>500次
-40℃ 容量 (0.2C)		≈70%
80℃ 1000小时存储可恢复容量		>85%
工作温度	充电	-20~60℃
	放电	-40~85℃



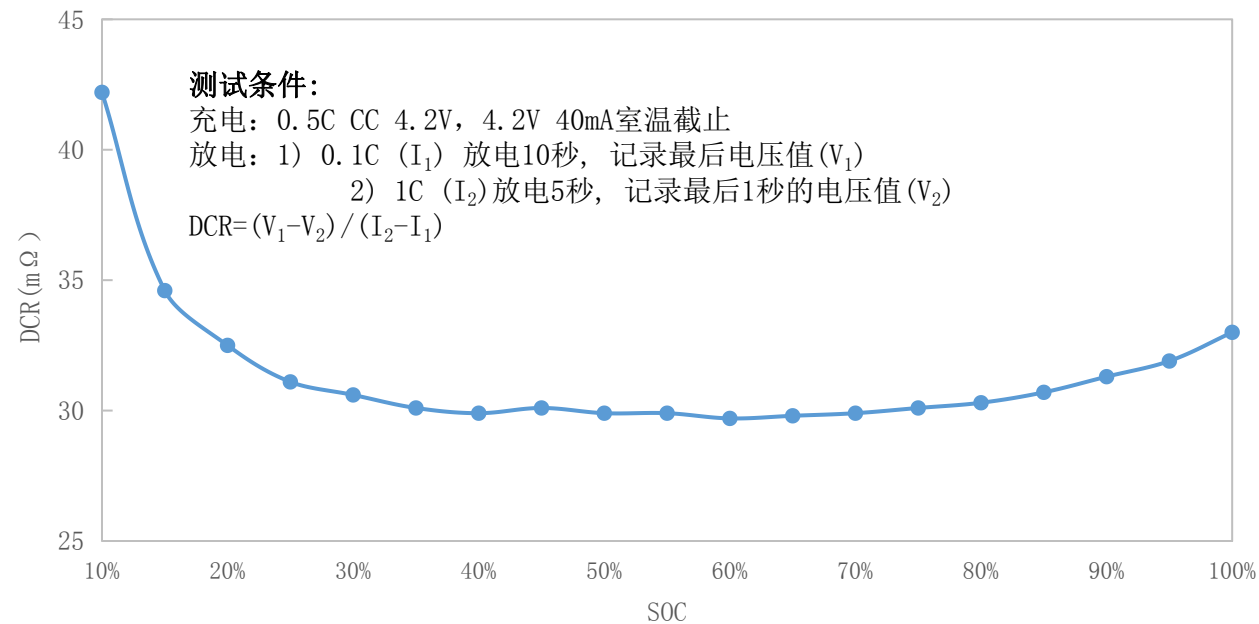
SOC和DCR 测试

OCV VS SOC



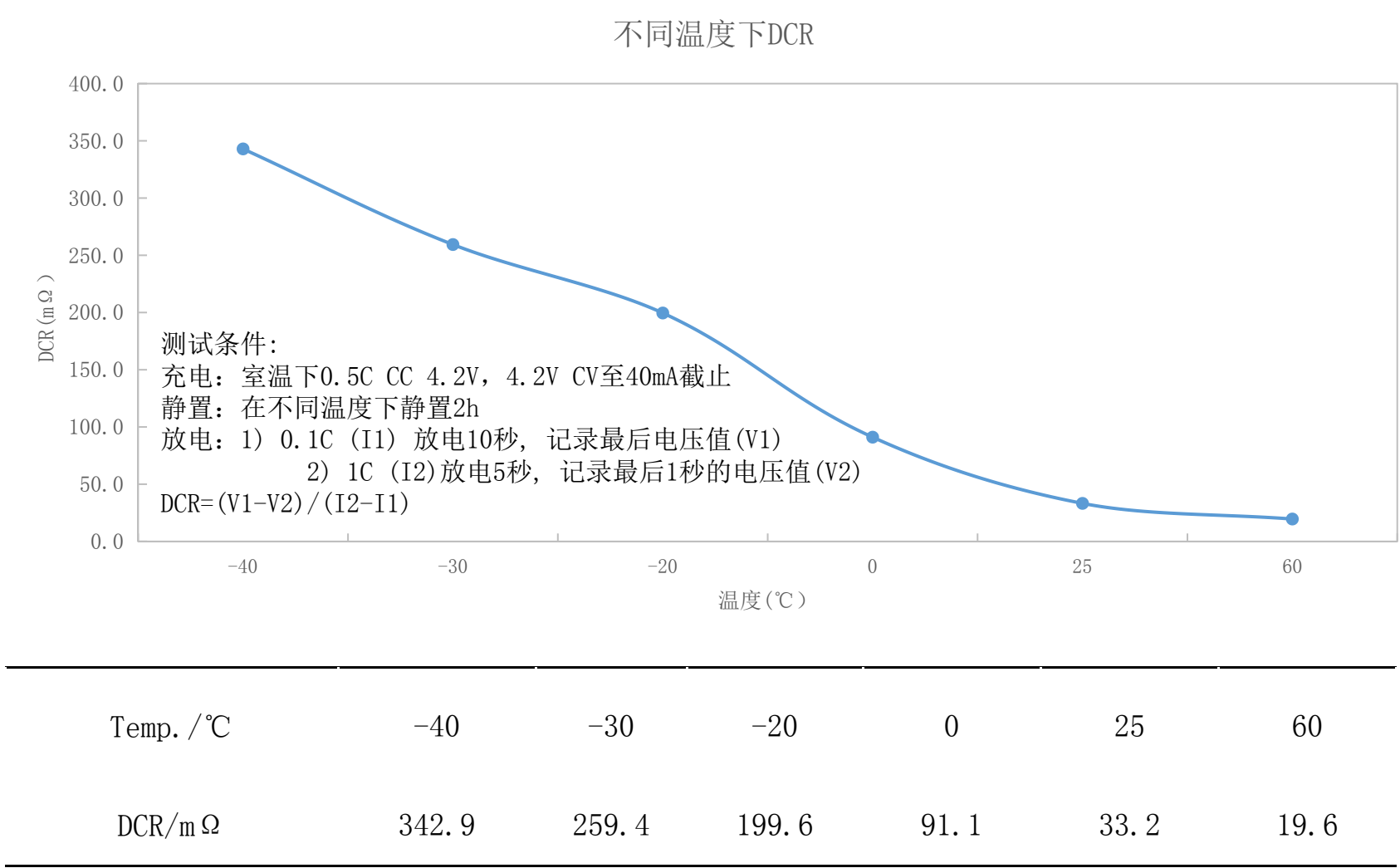
SOC	100%	90%	80%	70%	60%	50%	40%	30%	20%	10%	0%
电压/V	4.19	4.05	3.96	3.85	3.75	3.68	3.59	3.54	3.48	3.38	2.75

DCR VS SOC



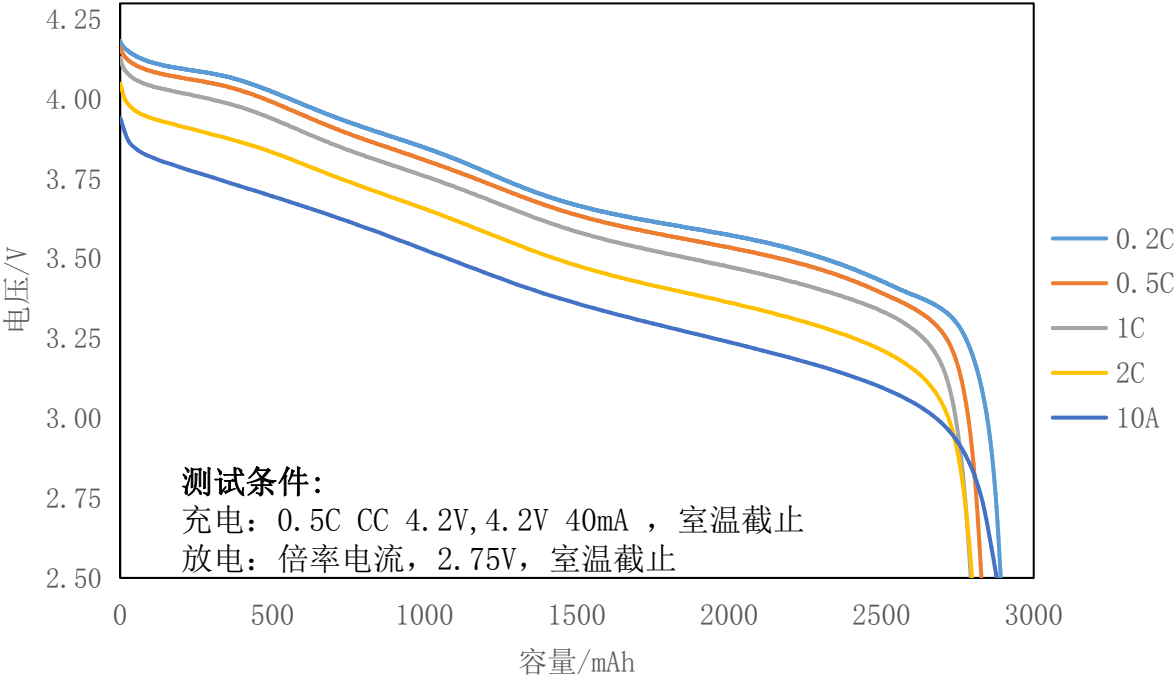
SOC	100%	90%	80%	70%	60%	50%	40%	30%	20%	10%
DCR(mΩ)	33.0	31.3	30.3	29.9	29.7	29.9	29.9	30.6	32.5	42.2

不同温度下的DCR



倍率放电

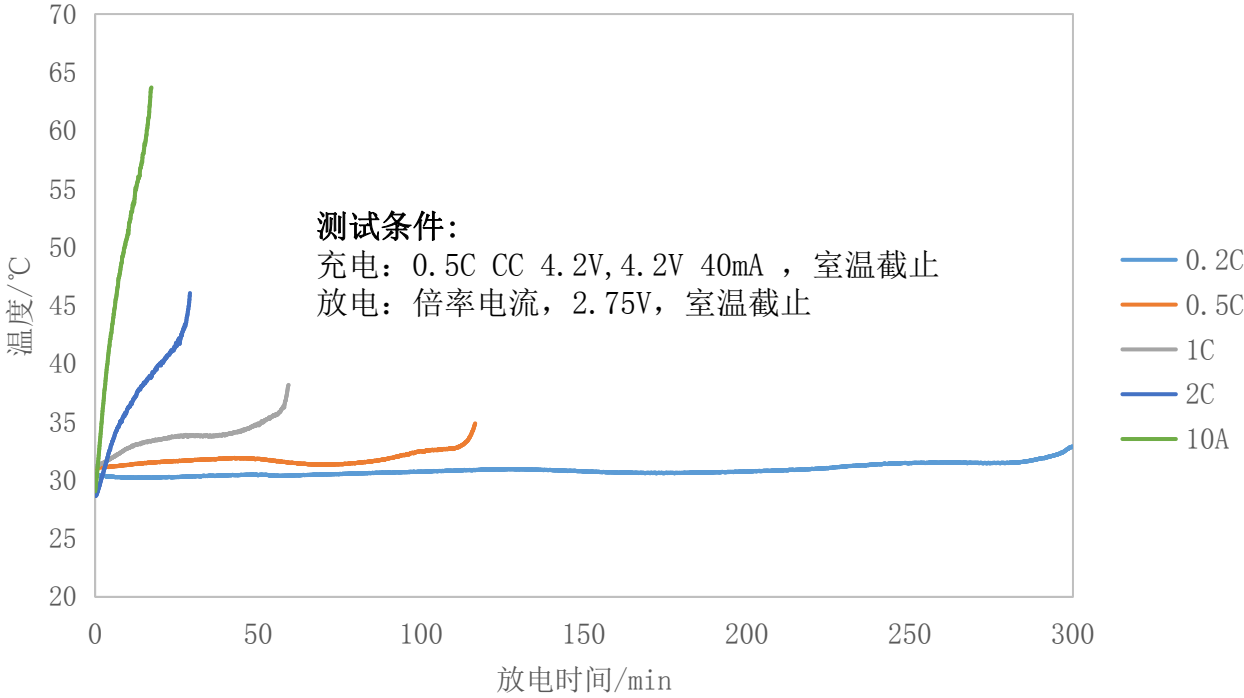
倍率放电



容量保持率

	0.2C	0.5C	1C	2C	10A
容量/mAh	2891.5	2828.1	2793.3	2797.6	2878.5
保持率	100.0%	97.8%	96.6%	96.8%	99.6%

放电温升

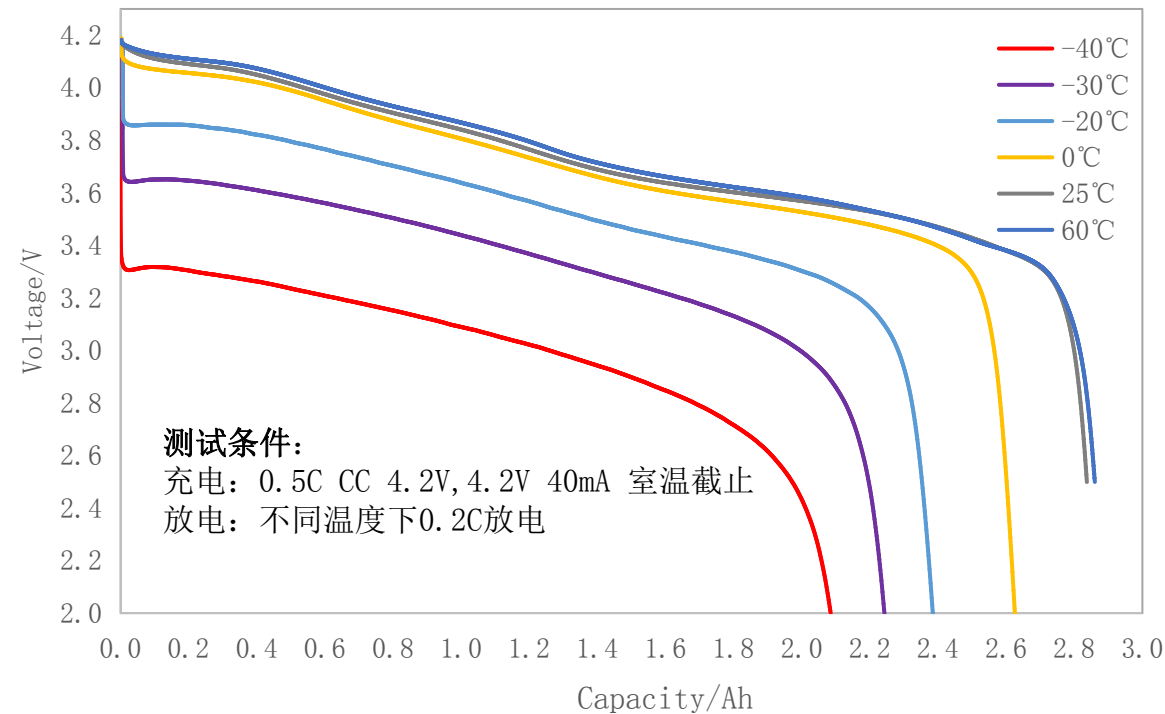


容量保持率

	0.2C	0.5C	1C	2C	10A
最高温度/°C	32.9	34.9	38.2	46.1	63.7
温升/°C	2.4	3.8	7.0	17.4	34.7

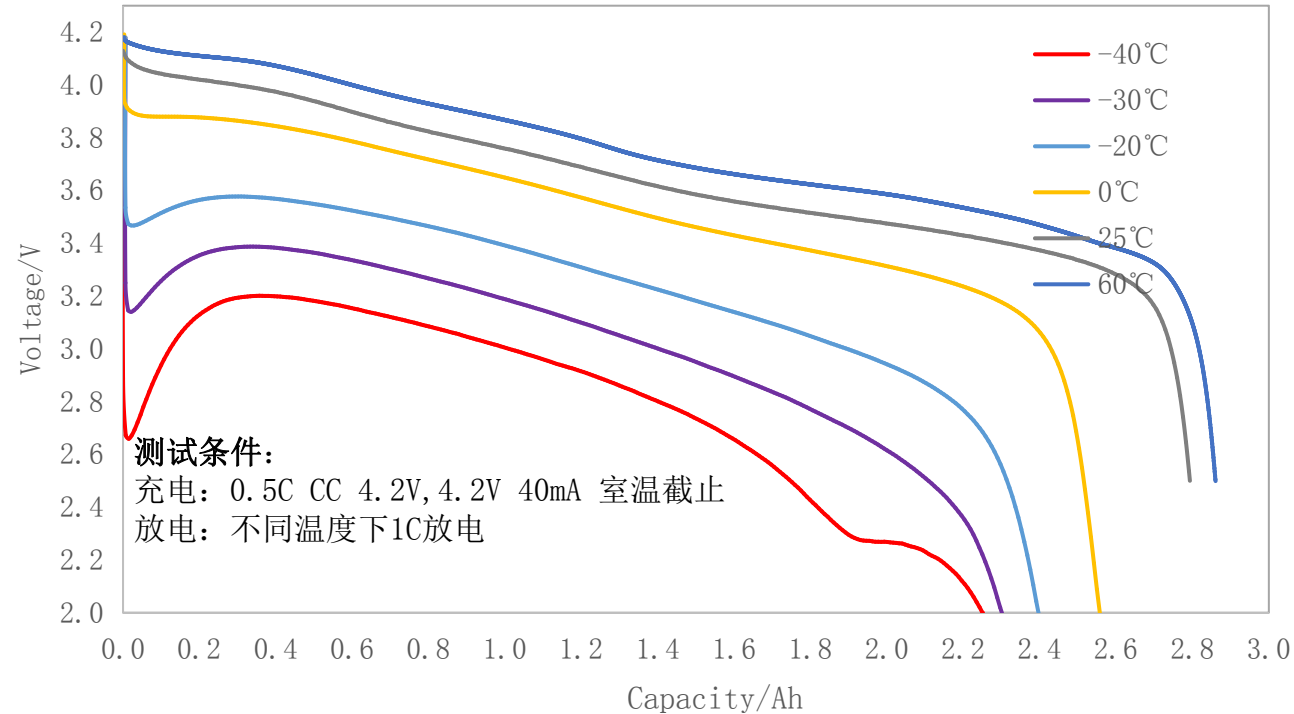
高低温放电

HL Temp. 0.2C Discharge curve



	25℃ 0.2C	0℃ 0.2C	-20℃ 0.2C	-30℃ 0.2C	-40℃ 0.2C	60℃ 0.2C
容量/Ah	2.87	2.63	2.38	2.24	2.08	2.86
保持率	100.0%	91.4%	83.0%	78.1%	72.6%	99.6%

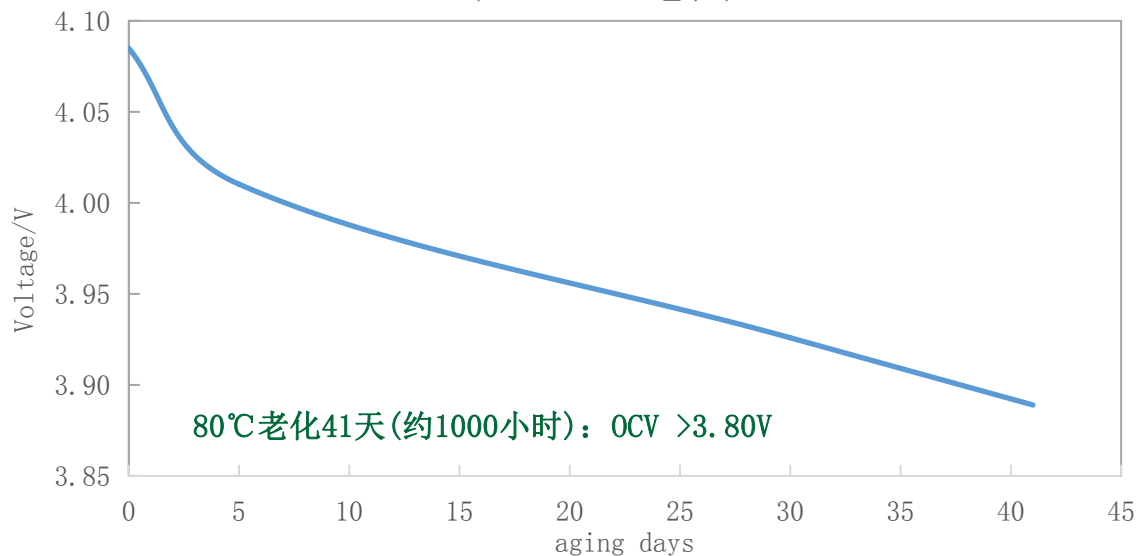
HL Temp. 1C Discharge curve



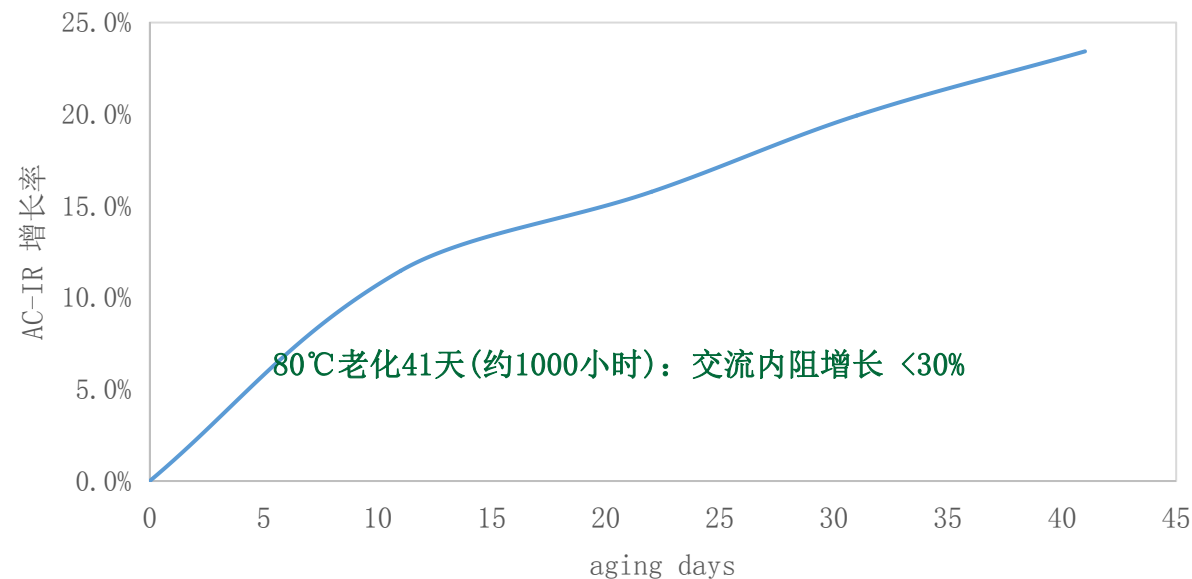
	25℃ 1C	0℃ 1C	-20℃ 1C	-30℃ 1C	-40℃ 1C	60℃ 1C
容量/Ah	2.79	2.56	2.40	2.30	2.25	2.86
保持率	100.0%	91.6%	85.8%	82.4%	80.6%	102.4%

80℃ & 4.10V老化

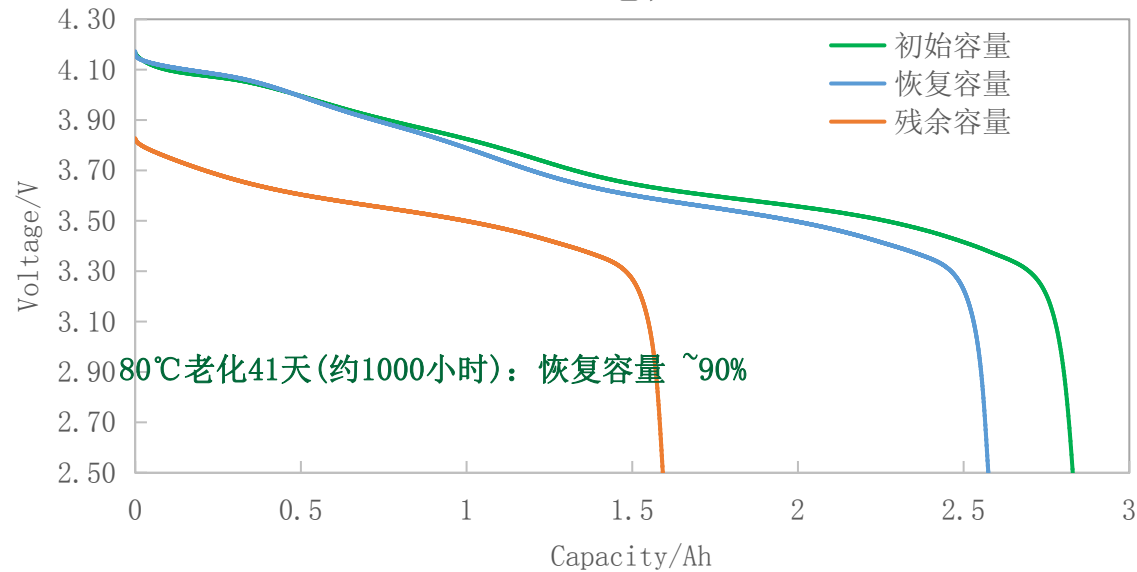
OCV (80℃&4.1V老化)



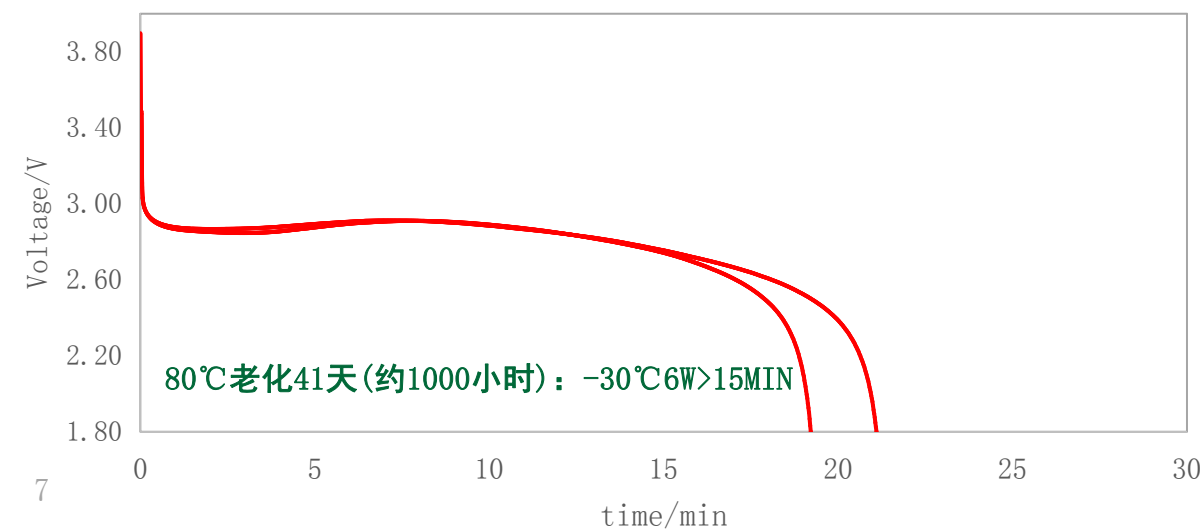
AC-IR (80℃&4.1V 老化)



80℃&4.1V老化1000h

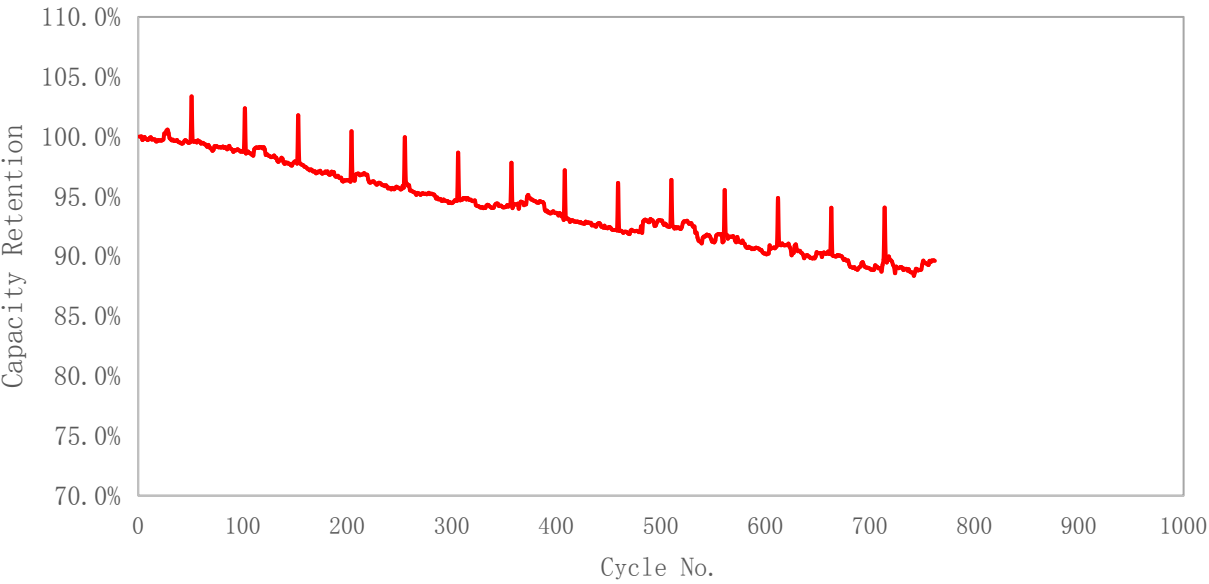


80℃&4.1V aging 1000h -30℃&6W (3.9V~1.8V)



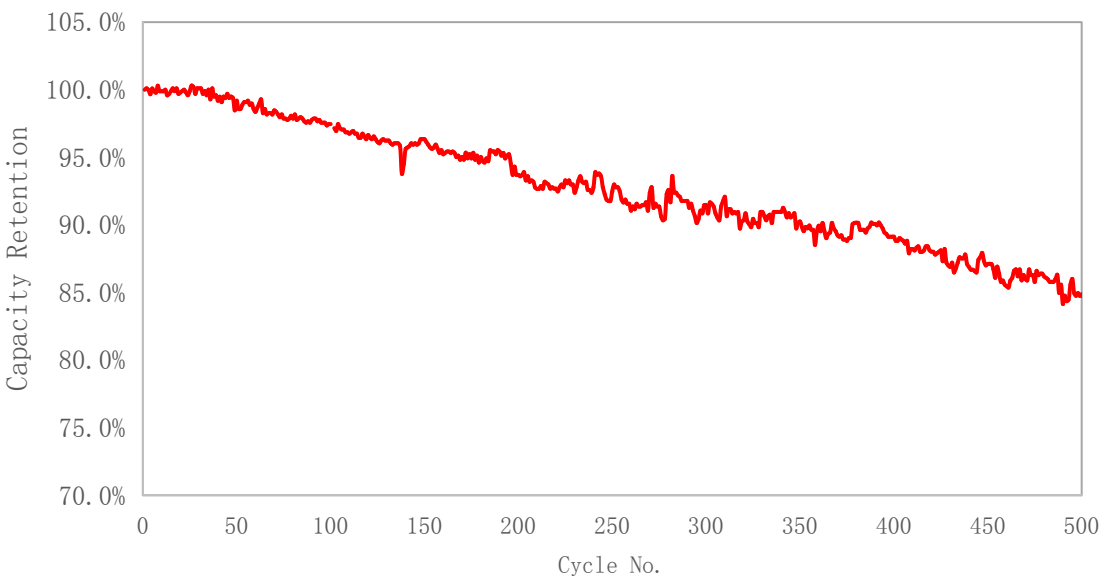
常温循环寿命（2.75-4.2V）

RT 0.5C/1C (4.2V~2.75V)



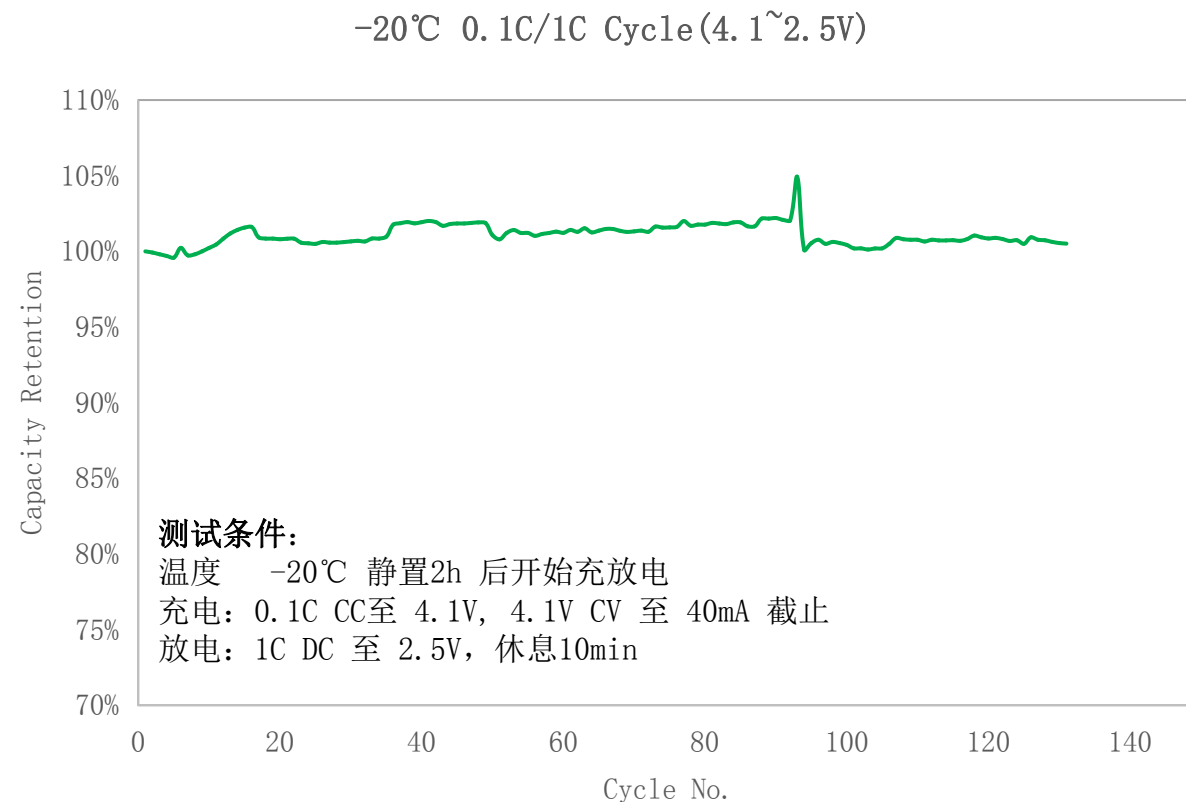
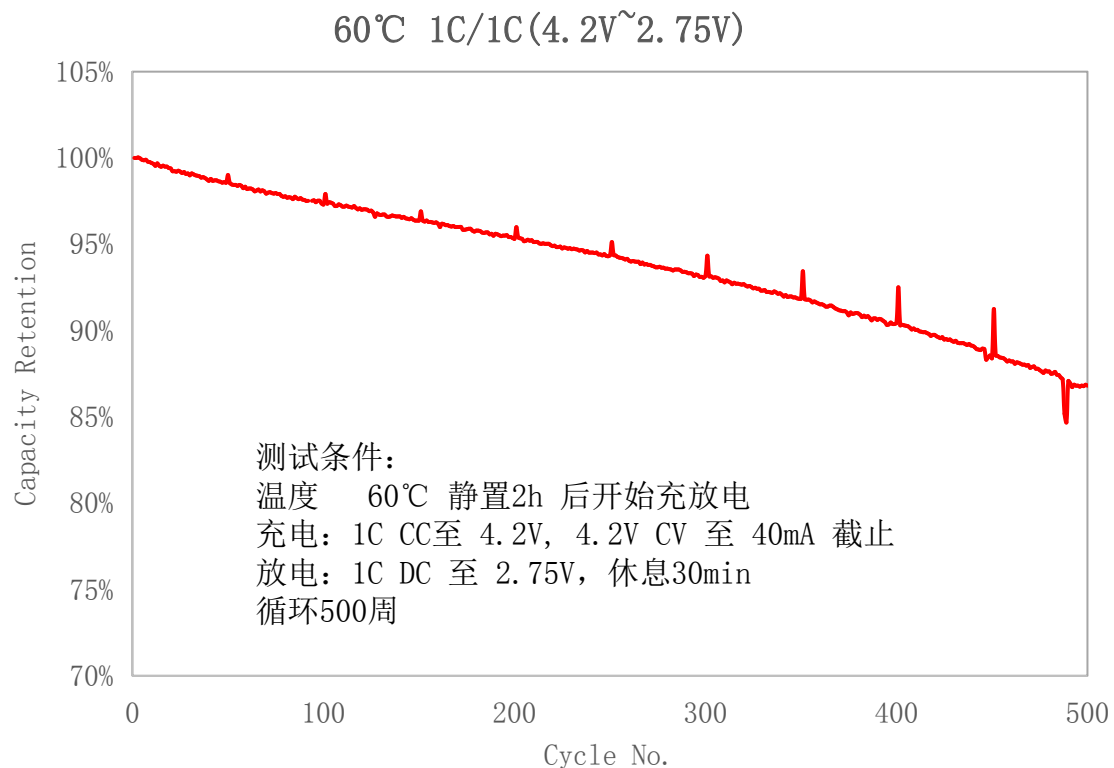
容量保持率							
1st	100th	200th	300th	400th	500th	600th	700th
100.0%	98.6%	96.8%	95.1%	93.6%	92.9%	91.4%	90.6%

RT 0.5C/10A (4.2V~2.75V)

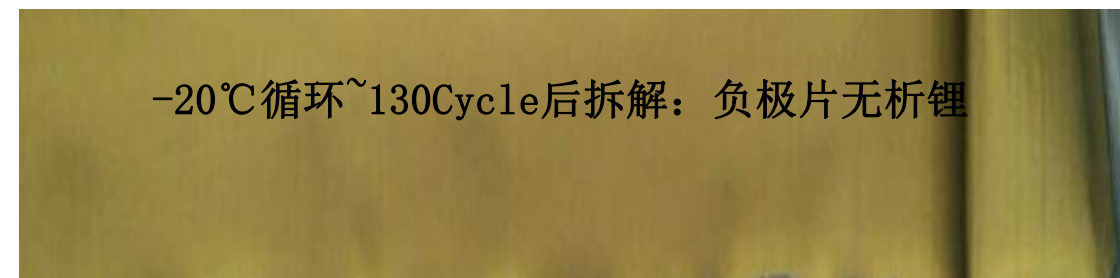


容量保持率					
1st	100th	200th	300th	400th	500th
100.0%	97.5%	93.7%	91.5%	89.1%	84.9%

高低温循环寿命



容量保持率					
1st	100th	200th	300th	400th	500th
100.0%	97.1%	95.6%	94.0%	92.2%	86.5%



感谢您的关注！