



Linkdata Power Cell



INR21700S-65P-Product

2026



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1. Cell Performance Overview-65P

N0.	Category	Main Contents	Results
1	Short-term Tests	Capacity(25°C 0.2C)/Ah	6.559
2		Energy(25°C 0.2C)/Wh	23.135
3		ACIR(30%SOC) /mΩ	~3.5
4		DCR(25°C 50%SOC 1C 10s)/mΩ	~11.7
6		Rate discharge (25°C 100%SOC)	97.8% capacity retention@ 25°C 32.5A
7		High&Low-temperature discharge(100%SOC)	74.8% capacity retention@ -30°C 1C
8	Cycle Life Tests	25°C, +6.5A/-6.5A, 2.5v or 75 °C cut off	80.0% capacity retention and 80.1% energy retention @ 400cls
9	Storage Tests	60°C, 100%SOC, 30d	≥97.0% recovered capacity
10	Safety Tests	25°C 100%SOC fresh cell, 1C/6.3V overcharge GB31485	Passed, no fire or explosion
11		25°C 100%SOC fresh cell, 1C/90min overdischarge GB38031	Passed, no fire or explosion
12		55°C external short circuit at 80 mΩ GB 31241	Passed, no fire or explosion
13		130°C Heating test GB38031	Passed, no fire or explosion
14		Thermal stability cycling GB38031	Passed, no fire, no explosion or leakage
15		100%SOC Drop test GB31485	Passed, no fire, no explosion or leakage
16		100%SOC Crush test GB38031	Passed, no fire or explosion

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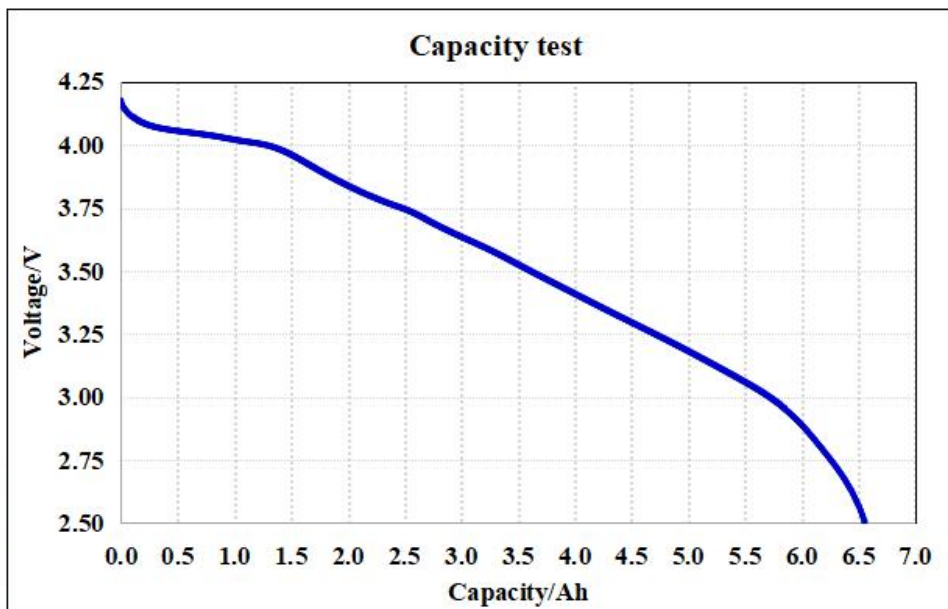
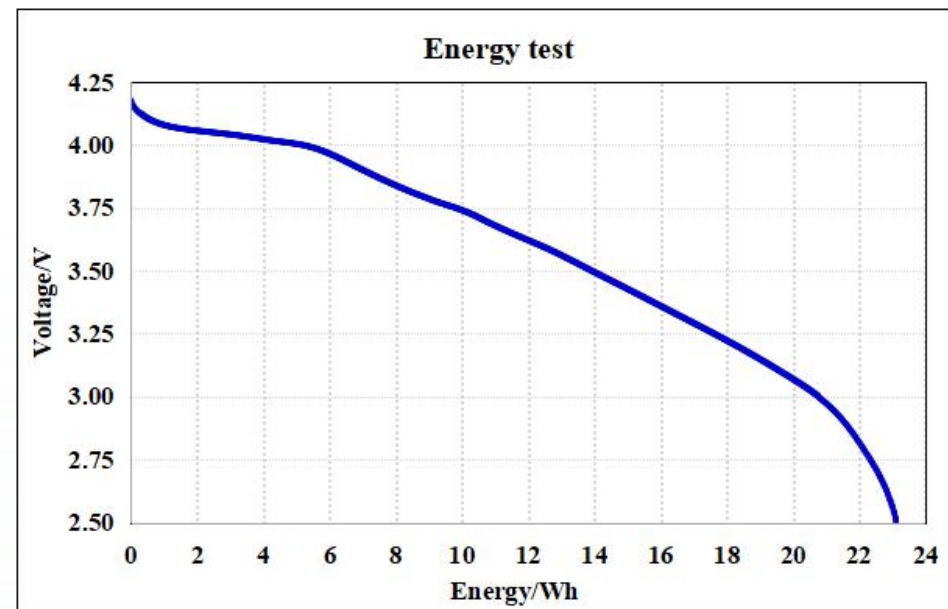
04 Storage Tests



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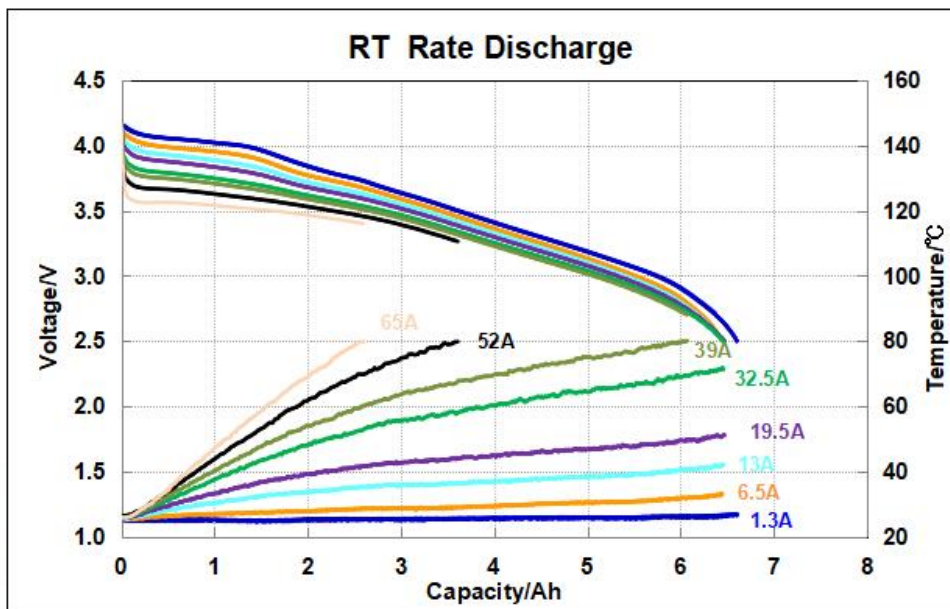
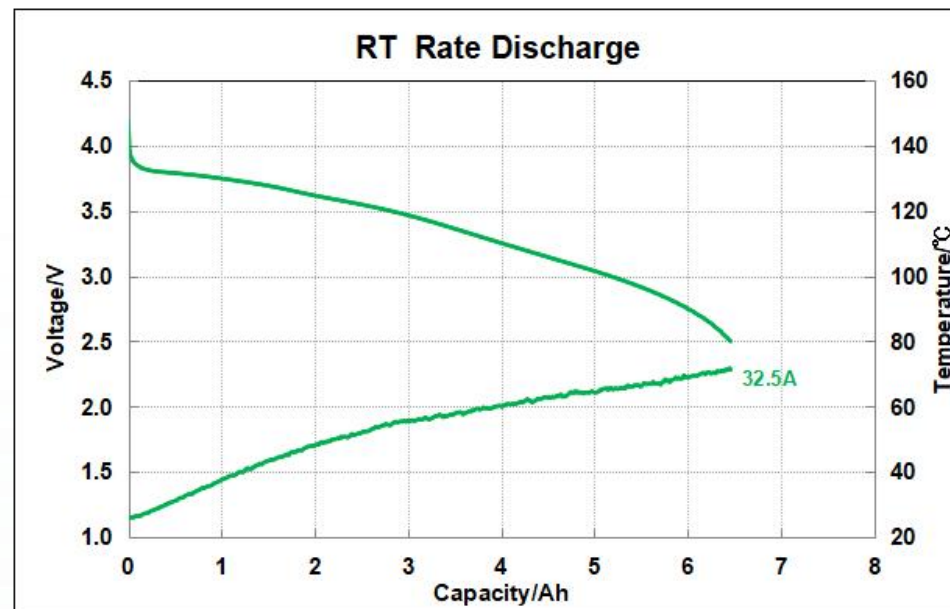
2.1 Capacity&Eenergy at RT



Test procedure

- Charge: 1/3C CC to 4.2V, CV to 0.02C cut of, 25±2°C.
- Rest: 30min
- Discharge: 0.2C to 2.5V

2.2 Rate Discharge at RT



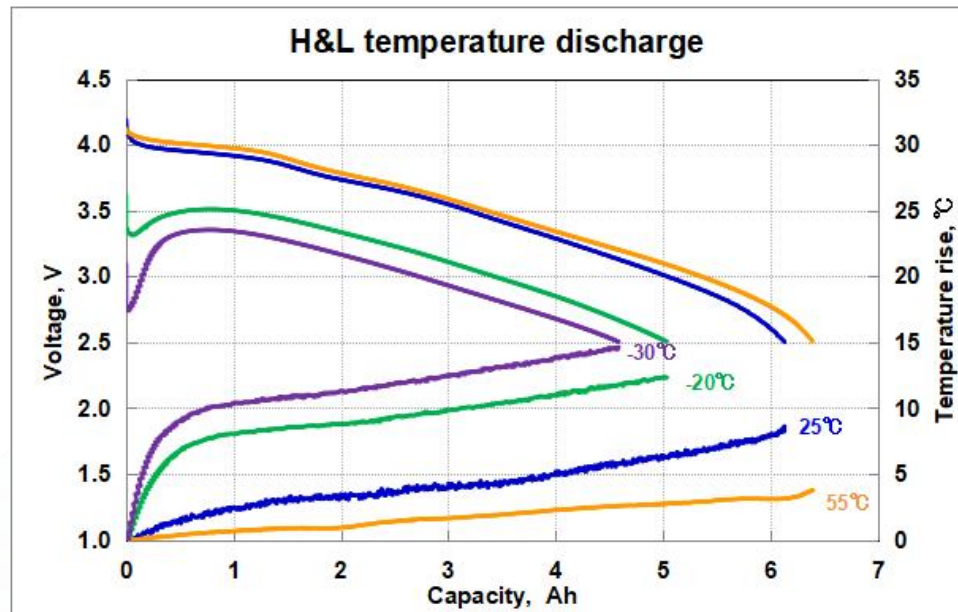
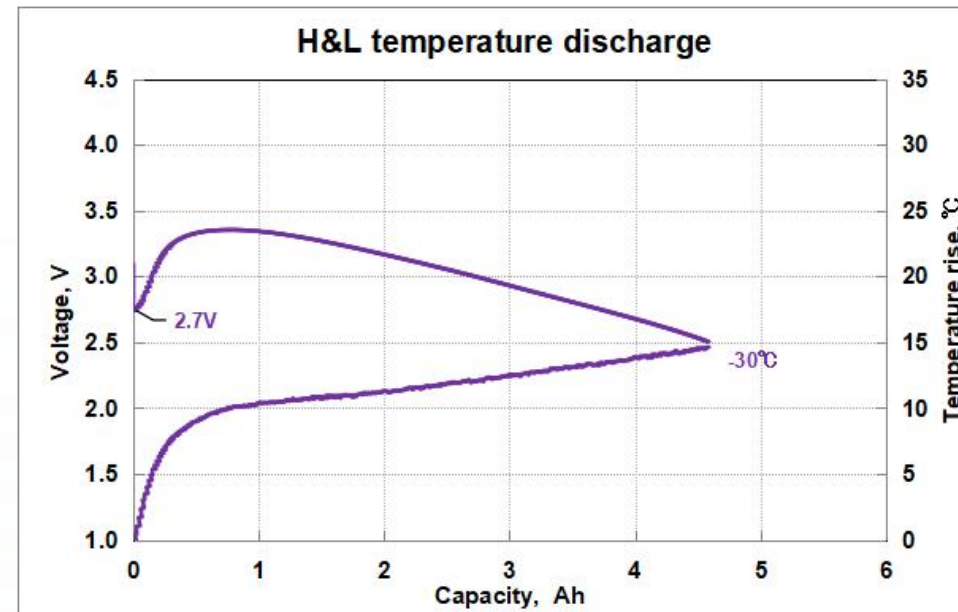
Test procedure

- Charge: 1/3C CC to 4.2V, CV to 0.02C cut off, $25 \pm 2^\circ\text{C}$.
- Rest: 30min
- Discharge: 1.3A/6.5A/13A/19.5A/26A/32.5A/39A to 2.5V or 80°C cut off

- LD 65P can support **5C(32.5A)** continuous discharge Current, with the maximum temperature below 80°C .



2.3 High&Low-temperature discharge



Test procedure

- Charge: 1/3C CC to 4.2V, CV to 0.02C cut of, 25±2°C.
- Rest: keep 3h at 55 °C&-20 °C&-30 °C
- Discharge: 6.5A CC to 2.5V

- LD 65P supports 1C DC at -30°C with the capacity retention $\geq 75\%$, and the lowest voltage during the initial 30s is above 2.7V.

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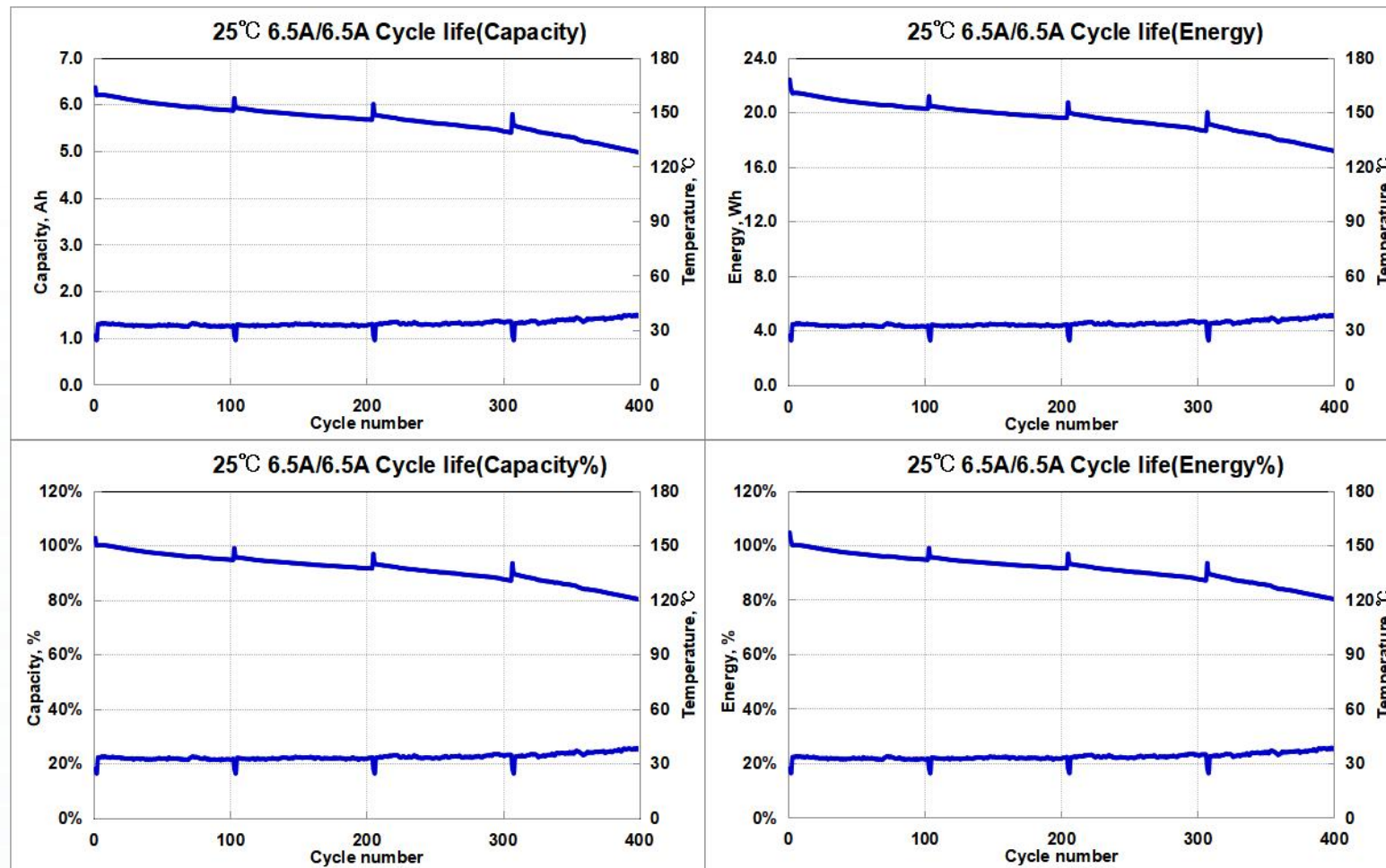
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3.1 Cycle life with Different Discharge Current

25±2°C, +6.5A/6.5A, 2.5V or 75°C Cut off

Test procedure

- Charge: 6.5A CC to 4.2V, CV to 0.13A cut of, 25 ± 2°C
- Rest: 30min
- Discharge: 6.5A CC to 2.5V or 75°C cut off
- Rest: 30min
- 1/3C CC to 4.2V, CV to 0.02C cut of, 0.2C CC to 2.5V, every 100 cycles



➤ 65P has excellent 6.5A/6.5A@25°C cycling performance : 6.5A/6.5A@25°C > 400 cycles with 80%SOH .

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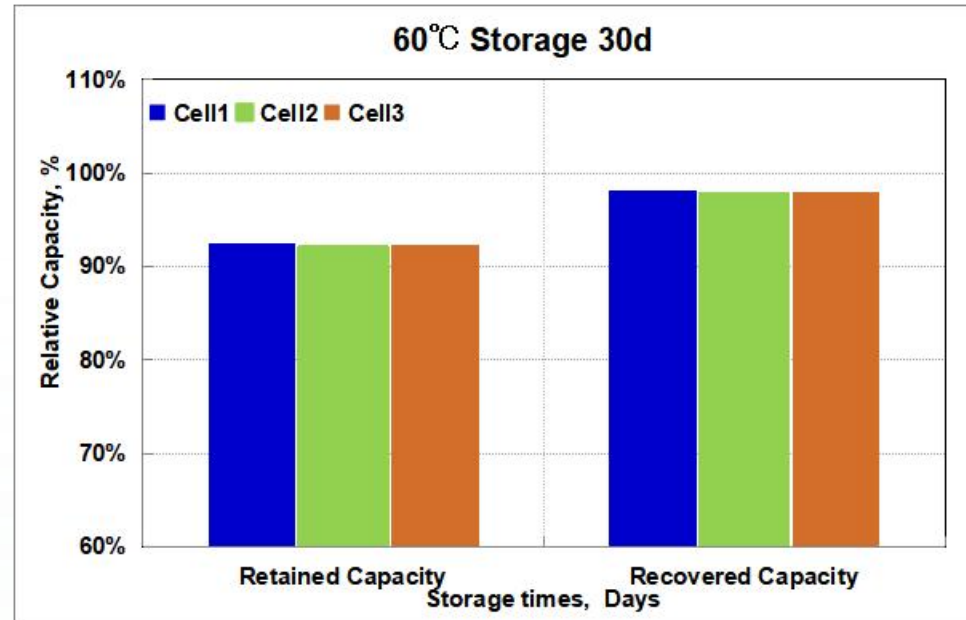


04 Storage Tests



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4.1 60°C Storage, 100%SOC



Test procedure

- Charge: 1/3C CC to 4.2V, CV to 0.02C cut of, 25 ± 2°C.
- Rest: 30min
- Storage at 60°C for 30 days
- Retained Capacity : 0.2C CC to 2.5V, 25 ± 2°C,
- Recovered Capacity : 1/3C CC to 4.2V, CV to 0.02C cut of, 25 ± 2°C, 0.2C CC to 2.5V

➤ LD 65P still maintained a capacity recovery rate of over 97% after being stored at 60°C for 60 days.

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5.1 Overcharge Test

25°C, 100%SOC Fresh cell, 6.5A/6.3V

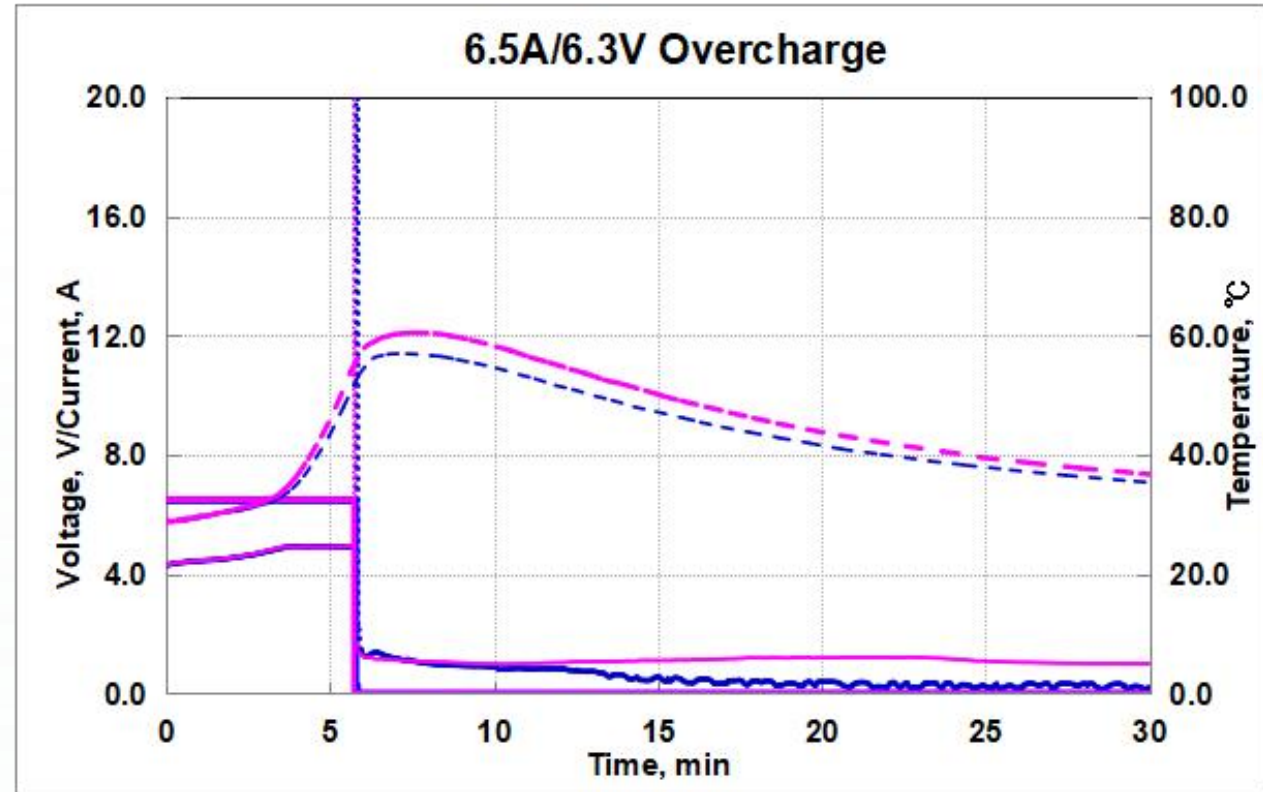
Test procedure

- Charge: 1/3C CC to 4.2V, CV to 0.02C cut of, $25 \pm 2^\circ\text{C}$
- Rest: 30min
- Overcharge :6.5A CC to 6.3V or 1hour

Pass Criteria: No Fire, No Explosion

Reference standard: GB31485

- 65P cells passed 6A/6.3V overcharge test, no fire or explosion





5.2 Overdischarge

25°C, 100%SOC Fresh cell, 6A/90min

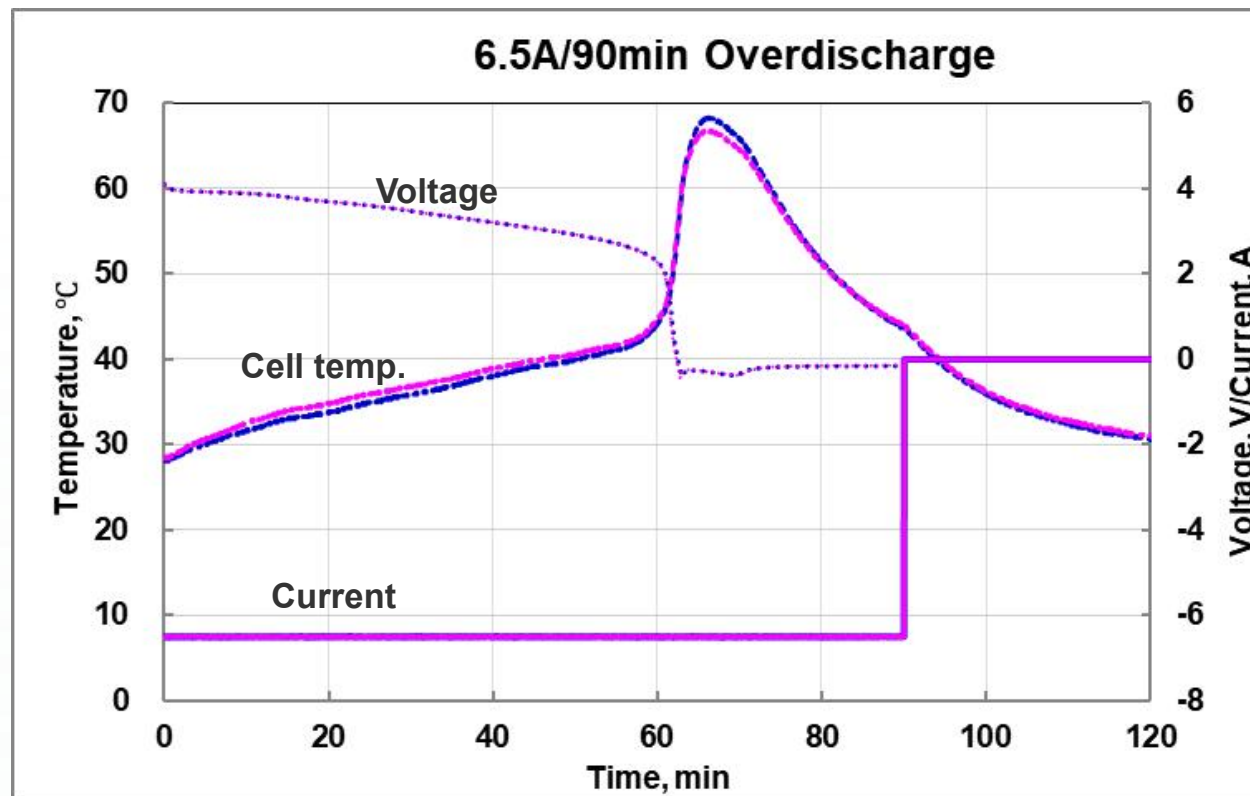
Test procedure

- Charge: 1/3C CC to 4.2V, CV to 0.02C cut of, $25 \pm 2^\circ\text{C}$
- Rest: 30min
- Overdischarge :6.5A CC 90min

Pass Criteria: No Fire, No Explosion

Reference standard: GB38031

- 65P cells passed overdischarge test, no fire or explosion



5.3 55°C Short Circuit

55°C 80mΩ

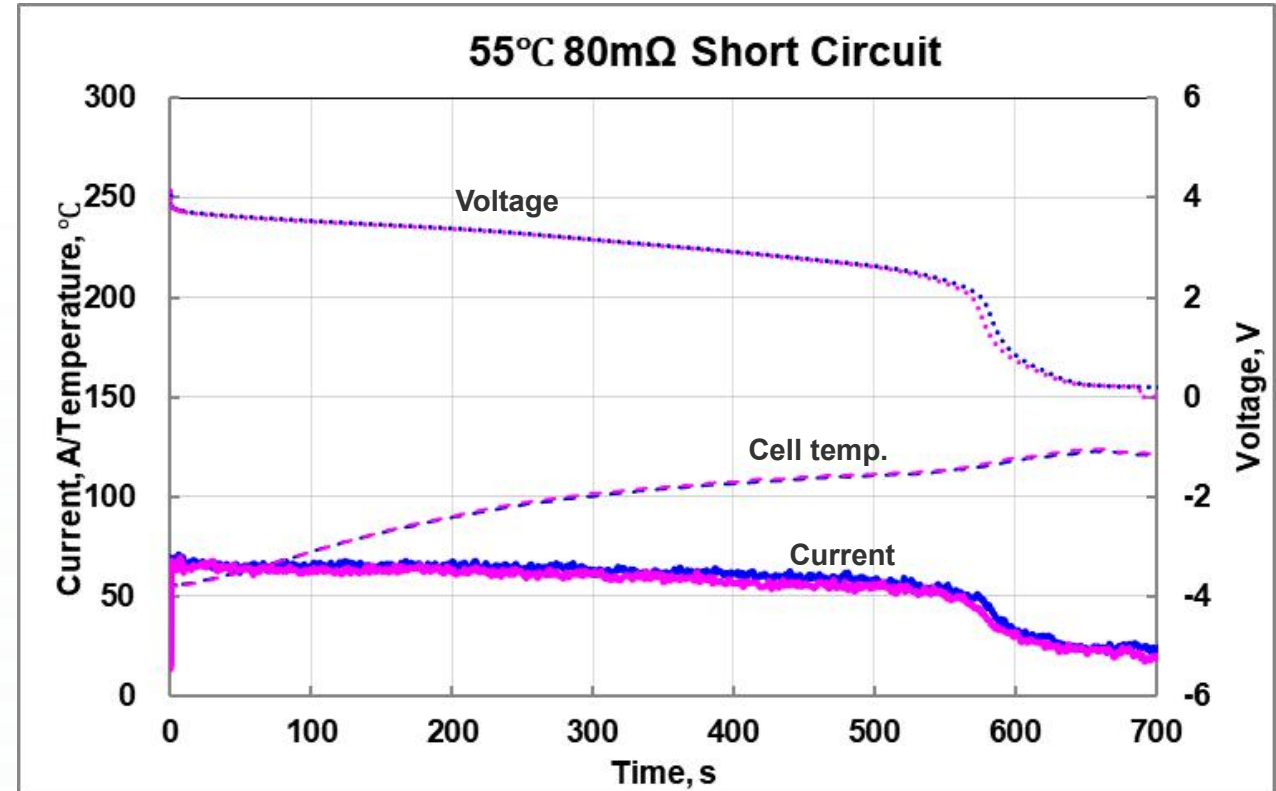
Test procedure

- Charge: 1/3C CC to 4.2V, CV to 0.02C cut of, $25 \pm 2^\circ\text{C}$.
- Rest: $55 \pm 2^\circ\text{C}$, 60min
- Short resistance: 80mΩ

Pass Criteria: No Fire, No Explosion

Reference standard: GB31241-2022

- 65P cells passed 80mΩ short circuit test at 55°C, no fire or explosion



5.4 Heating Test

130°C heating (5 °C/ min heating rate, 30min)

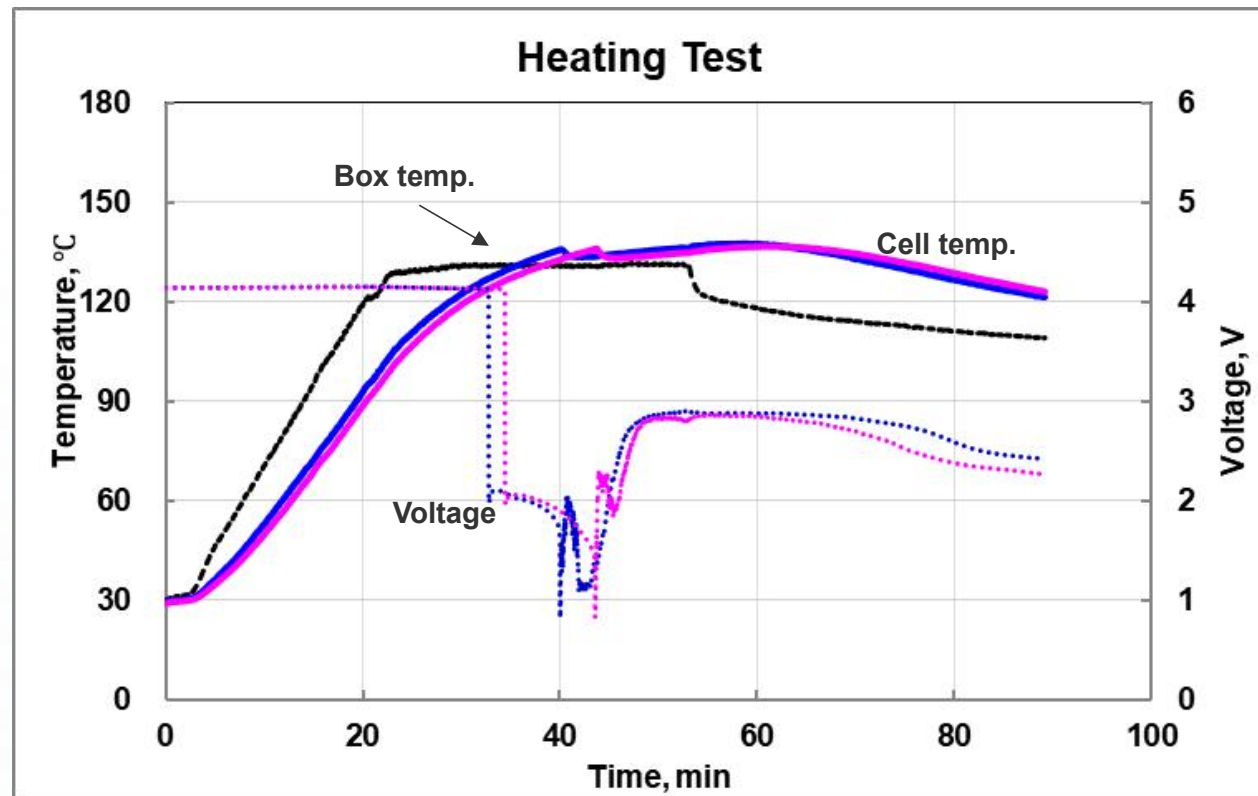
Test procedure

- Charge: 1/3C CC to 4.2V, CV to 0.02C cut of, $25 \pm 2^{\circ}\text{C}$.
- Rest: 30min
- Heating test: heat at 5 °C /min to 130 °C, keep at 130 °C for 30min

Pass Criteria: No Fire, No Explosion

Reference standard: GB38031

- 65P cells passed 130 °C heating test, no fire or explosion



5.5 Thermal Stability Cycling

85°C~-40 °C, 5 cycles

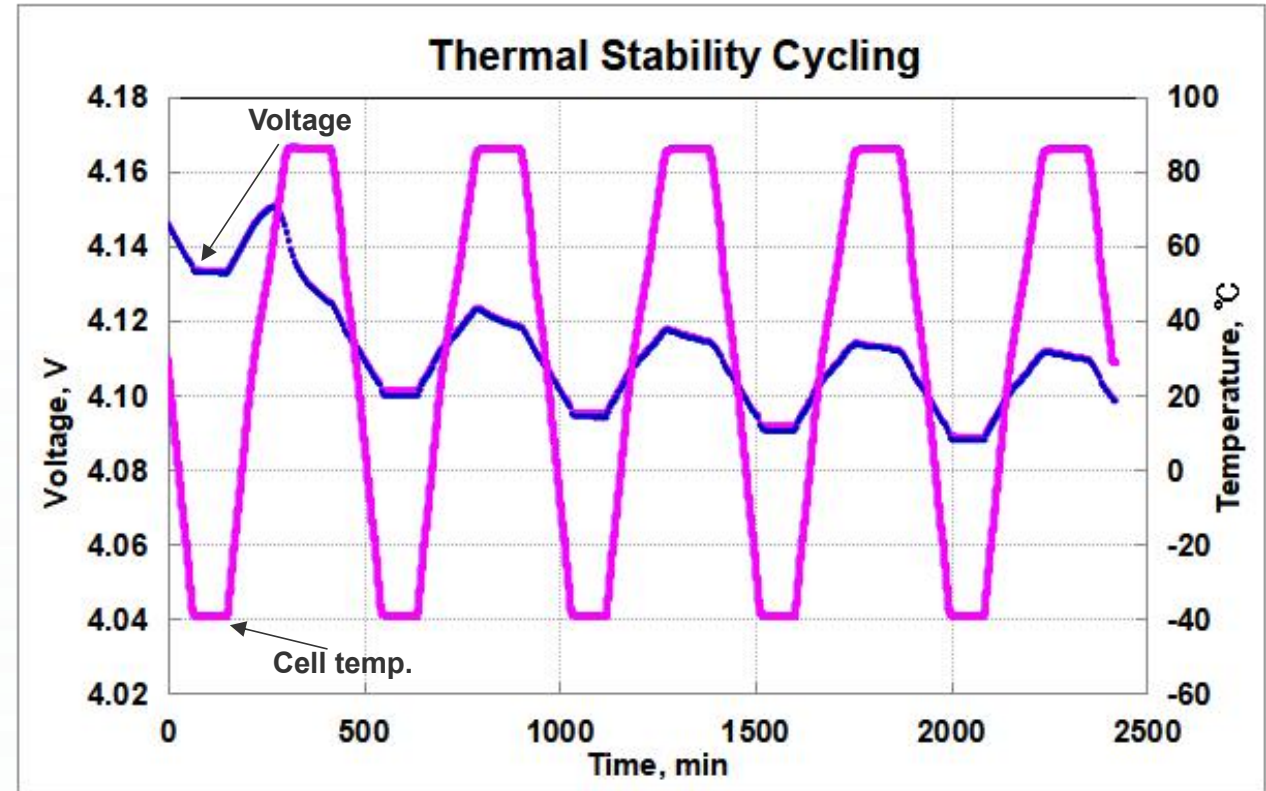
Test procedure

- Charge: 1/3C CC to 4.2V, CV to 0.02C cut of, $25 \pm 2^{\circ}\text{C}$.
- Rest: 30min
- Thermal stability cycling: $T_{\text{max}}=85\pm 2^{\circ}\text{C}$, $T_{\text{min}}=-40 \pm 2^{\circ}\text{C}$, one cycle 480min, 5 cycles

Pass Criteria: No Fire, No Explosion

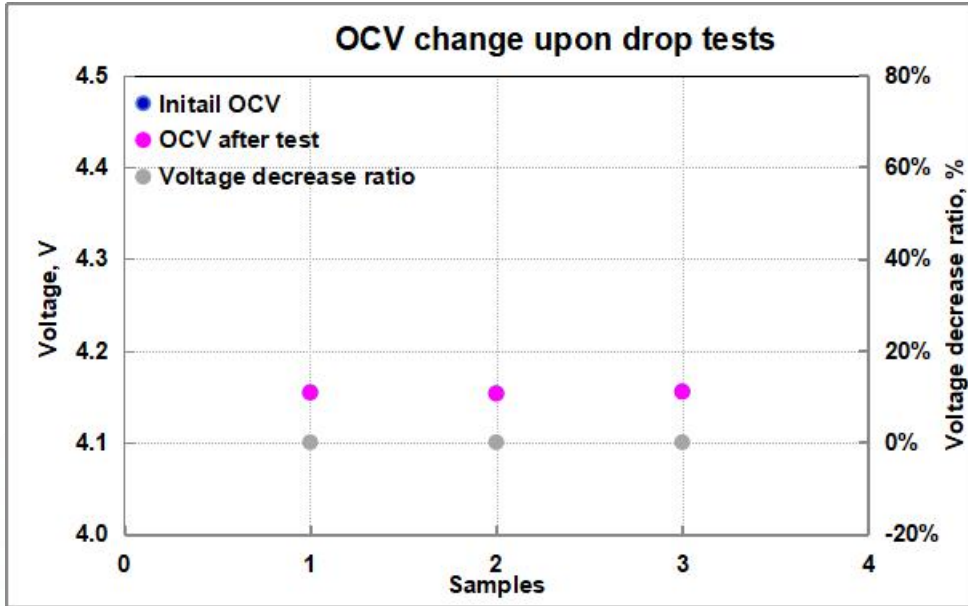
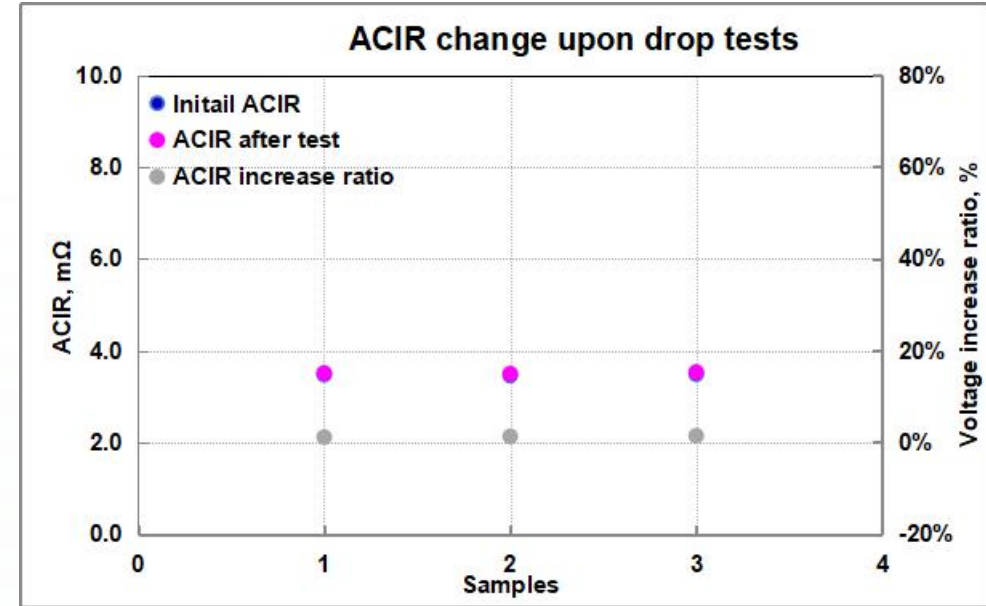
Reference standard: GB38031

- 65P cells passed thermal stability cycling test, no fire or explosion



5.6 Drop Test

25°C, 100% SOC



Test procedure

- Charge: 1/3C CC to 4.2V, CV to 0.02C cut off, 25 ± 2°C.
- Rest: 30min
- Drop test: 1.5m height, 2 directions

Pass Criteria: No Fire, No Explosion, No leakage

Reference standard: GB31485

➤ 65P cells passed drop test, no fire, no explosion or leakage

5.7 Crush test

75 mm semi-cylinder, 15% deformation

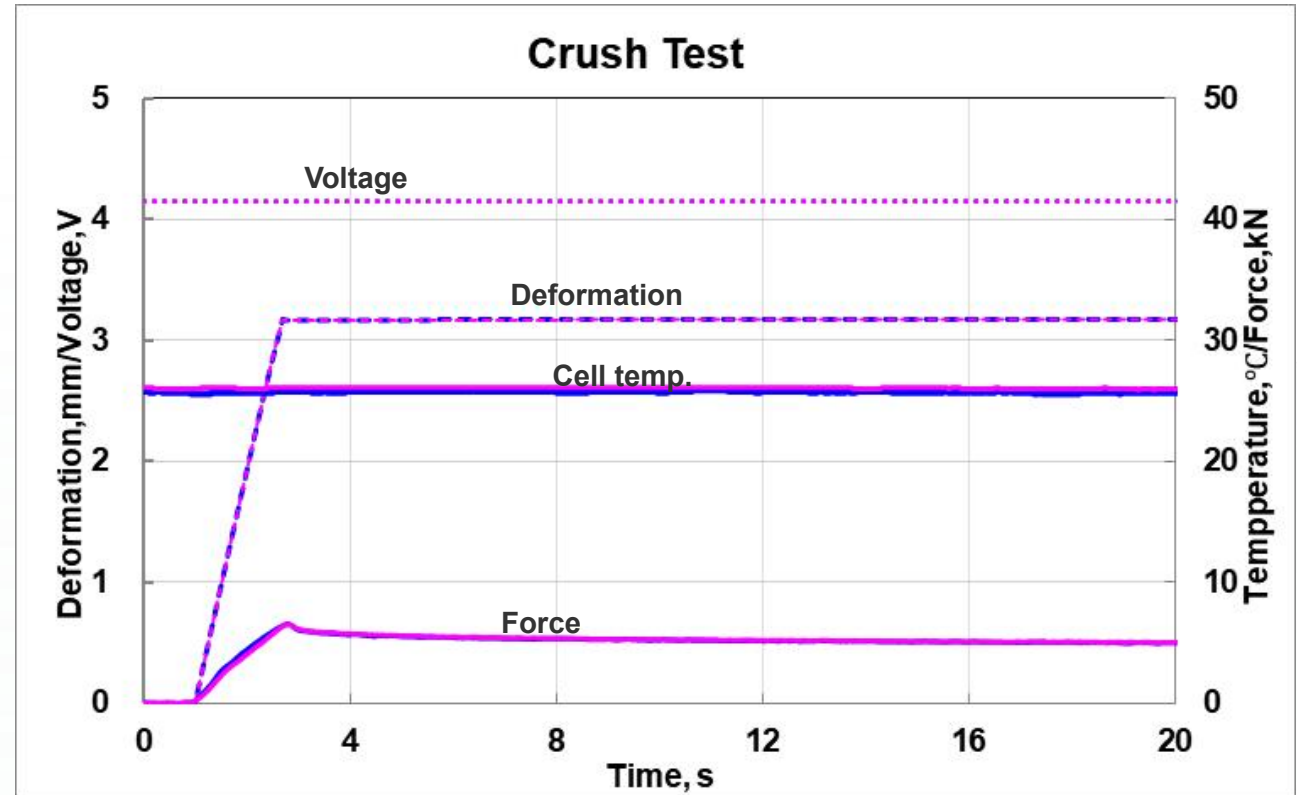
Test procedure

- Charge: 1/3C CC to 4.2V, CV to 0.02C cut of, $25 \pm 2^{\circ}\text{C}$.
- Rest: 30min
- Crush test: 75 mm semi-cylinder, 15% deformation or the force reaches 100kN

Pass Criteria: No Fire, No Explosion

Reference standard: GB38031

- 65P cells passed crush test, no fire or explosion





谢谢!

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