



Pony Testing International Group

报告编号(Report ID): W09103008321D~1

锂电池UN38.3测试报告

Lithium Battery UN38.3 Test Report

样品名称

(Samples)

Li-ion Polymer Battery 505068

委托单位

(Client)

Yoku Energy (Zhangzhou) Co., Ltd.

生产单位

(Manufacturer)

Yoku Energy (Zhangzhou) Co., Ltd.

PONY 谱尼测试
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No.: W09103008321D

Code: ecq92ha



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1. SAMPLE DESCRIPTION

Sample Name	Li-ion Polymer Battery		Battery Type	505068	
Client	Yoku Energy (Zhangzhou) Co., Ltd.				
Manufacturer	Yoku Energy (Zhangzhou) Co., Ltd.				
Nominal Voltage	3.7V	Rated Capacity	1800mAh	Limited Charge Voltage	4.2V
Charge Current	900mA	Maximum Continuous Charge Currents	900mA	End Charge Current	90mA
Cut-off Voltage	2.75V	Maximum Discharge Current	1800mA	Use	Monitoring equipment
Cells Number	1PCS	Cell Model	505038	Rated Capacity	1800mAh
Manufacturer of cell		Yoku Energy (Zhangzhou) Co., Ltd.	Chemical component		LiCoO ₂ 、Carbon、Electrolyte
Client date	2012-09-05		Finished date	2012-09-24	

II. STANDARD

United Nations Recommendations On The Transport Of Dangerous Goods, Manual Of Tests And Criteria.

III. TEST ITEM

- | | |
|------------------------|---------------------------|
| 1. Altitude simulation | 5. External short circuit |
| 2. Thermal test | 6. Crush |
| 3. Vibration | 7. Overcharge |
| 4. Shock | 8. Forced discharge |

IV. CONCLUSION

ITEM	SAMPLE NUMBER	STANDARD	CONCLUSION
Altitude simulation	N1~N4 C1~C4	UN38.3	PASS
Thermal test			PASS
Vibration			PASS
Shock			PASS
External short circuit			PASS
Crush	N9~N13		PASS
Overcharge	N5~N8 C5~C8		PASS
Forced discharge	---		N/A (Not applicable)

The submitted battery and component cell were complied with the stated requirements of UN38.3

Prepared by: Zhengchunme Checked by: drop Approved by:

Approval Date: September 24, 2012

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文汇报报道：上海音乐学院作曲系教授、作曲家任光的女儿任光莉，因患白血病，在上海接受治疗，病情危急，生命垂危。任光莉是任光的独生女，从小在音乐环境中长大，对音乐有着浓厚的兴趣和天赋。她曾就读于上海音乐学院附中，后考入作曲系。任光莉的病情引起了音乐界的关注，许多音乐家纷纷捐款捐药，希望她能早日康复。任光莉的父亲任光是中国著名的作曲家，代表作有《渔光曲》、《渔光曲》等。任光莉的病情也引起了社会的关注，许多爱心人士纷纷伸出援手，希望她能早日康复。

1983年，他执导了第一部作品《青春祭》，该片在国内外电影节上屡获殊荣。1985年，他执导了《黄土地》，该片在国内外电影节上屡获殊荣。1988年，他执导了《红高粱》，该片在国内外电影节上屡获殊荣。1991年，他执导了《大红灯笼高高挂》，该片在国内外电影节上屡获殊荣。1994年，他执导了《活着》，该片在国内外电影节上屡获殊荣。1997年，他执导了《阳光灿烂的日子》，该片在国内外电影节上屡获殊荣。2000年，他执导了《花样年华》，该片在国内外电影节上屡获殊荣。2003年，他执导了《英雄》，该片在国内外电影节上屡获殊荣。2006年，他执导了《满城尽带黄金甲》，该片在国内外电影节上屡获殊荣。2009年，他执导了《建国大业》，该片在国内外电影节上屡获殊荣。2012年，他执导了《金陵十三钓》，该片在国内外电影节上屡获殊荣。2015年，他执导了《归来》，该片在国内外电影节上屡获殊荣。2018年，他执导了《影》，该片在国内外电影节上屡获殊荣。2021年，他执导了《悬崖之上》，该片在国内外电影节上屡获殊荣。

[illegible]

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Address: North Carolina, Box 34, Asheville, Building 15, North Carolina State, Durham, NC 27709-7000, U.S.A. Tel: 919/681-6550, Fax: 919/681-6551, e-mail: shirley@ncsu.edu

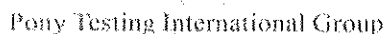
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1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

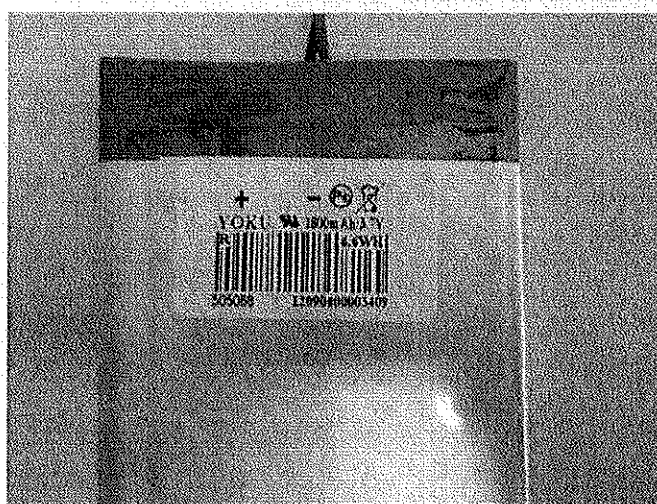
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N1~N8: Batteries at first cycle, in fully charged states;

N9-N13: Component cells of rechargeable batteries, at first cycle at 50% of the design rated capacity;

C1~C8: Batteries, after 50 cycles ending in fully charged states.



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陈鹤琴：《幼稚教育论》，上海：商务印书馆，1940年。

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1994年12月10日 星期日 第10000号

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WAX, DONGSHI, 2008

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$$f_{\text{eff}} = f_0 \left(1 - \frac{\alpha}{2} \right) \left(1 + \frac{\alpha}{2} \right) \left(1 - \frac{\alpha}{2} \right) \left(1 + \frac{\alpha}{2} \right) \dots$$

Keywords: child sexual abuse; disclosure; self-blame

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2023年12月25日
 2023年12月25日

1. *Radford, G. 1992. The structure of natural languages. Cambridge, MA: MIT Press.*

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DOI: 10.1002/for

Paul L. Schaeffer, Esq., Counselor

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VI. TEST METHOD

Tests T.1 to T.5 shall be conducted in sequence on the same cell or battery. Tests T.6 and T.8 shall be conducted using not otherwise tested cells or batteries. Test T.7 may be conducted using undamaged batteries previously used in tests T.1 to T.5 for purposes of testing on cycled batteries.

In order to quantify the mass loss, the following procedure is provided:

$$\text{Mass loss(\%)} = (M_1 - M_2) / M_1 \times 100$$

Where M_1 is the mass before the test and M_2 is the mass after the test. When mass loss does not exceed the values in Table blow, it shall be considered as "no mass loss".

Mass M of cell or battery	Mass loss limit
$M < 1\text{g}$	0.5%
$1\text{g} \leq M \leq 75\text{g}$	0.2%
$M > 75\text{g}$	0.1%

T.1 Altitude simulation

Test cells and batteries shall be stored at a pressure of 11.6 kPa or less for at least six hours at ambient temperature ($20 \pm 5^\circ\text{C}$).

Cells and batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states.

T.2 Thermal test

Test cells and batteries are to be stored for at least six hours at a test temperature equal to $72 \pm 2^\circ\text{C}$, followed by storage for at least six hours at a test temperature equal to $-40 \pm 2^\circ\text{C}$. The maximum time interval between test temperature extremes is 30 minutes. This procedure is to be repeated until 10 total cycles are complete, after which all test cells and batteries are to be stored for 24 hours at ambient temperature ($20 \pm 5^\circ\text{C}$). For large cells and batteries the duration of exposure to the test temperature extremes should be at least 12 hours.

Cells and batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states.

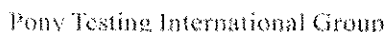
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Cells and batteries are firmly secured to the platform of the vibration machine without distorting the cells in such a manner as to faithfully transmit the vibration. The vibration shall be a sinusoidal waveform with a logarithmic sweep between 7 Hz and 200 Hz and back to 7 Hz traversed in 15 minutes. This cycle shall be repeated 12 times for a total of 3 hours for each of three mutually perpendicular mounting positions of the cell. One of the directions of vibration must be perpendicular to the terminal face.

For cells and small batteries: from 7 Hz a peak acceleration of 1 g_n is maintained until 18 Hz is reached. The amplitude is then maintained at 0.8 mm (1.6 mm total excursion) and the frequency increased until a peak acceleration of 8 g_n occurs (approximately 50 Hz).

For large batteries: from 7 Hz to a peak acceleration of 1 g_n is maintained until 18 Hz is reached. The amplitude is then maintained at 0.8 mm (1.6 mm total excursion) and the frequency increased until a peak acceleration of 2 g_n occurs (approximately 25 Hz). A peak acceleration of 2 g_n is then maintained until the frequency is increased to 200 Hz.

T4 Shock

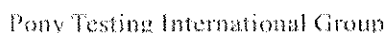
However, large cells and large batteries shall be subjected to a half-sine shock of peak acceleration of 50 g_{sh} and pulse duration of 11 milliseconds. Each cell or battery is subjected to three shocks in the positive direction followed by three shocks in the negative direction of each of three mutually perpendicular mounting positions of the cell for a total of 18 shocks.

防偽說明：
 (一) 註冊商標：包裝上印有「**保潔**」字樣，請認明「**保潔**」商標及「**保潔**」字樣。
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Pony Testing International Group

www.houvest.com ☎ Hotline 400-819-5088

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T5 External short circuit

Cells and batteries meet this requirement if their external temperature does not exceed 170 °C and there is no disassembly, no rupture and no fire during the test and within six hours after the test.

T.6 Impact / Crush

The sample cell or component cell is to be placed on a flat smooth surface. A 15.8 mm $\pm$ 0.1mm diameter, at least 6 cm long, or the longest dimension of the cell, whichever is greater, Type 316 stainless steel bar is to be placed across the centre of the sample. A 9.1 kg $\pm$ 0.1 kg mass is to be dropped from a height of 61 $\pm$ 2.5 cm at the intersection of the bar and sample in a controlled manner using a near frictionless, vertical sliding track or channel with minimal drag on the falling mass. The vertical track or channel used to guide the falling mass shall be oriented 90 degrees from the horizontal supporting surface.

The test sample is to be impacted with its longitudinal axis parallel to the flat surface and perpendicular to the longitudinal axis of the $15.8 \text{ mm} \pm 0.1 \text{ mm}$ diameter curved surface lying across the centre of the test sample. Each sample is to be subjected to only a single impact.

Crush (applicable to prismatic, pouch, coin/button cells and cylindrical cells not more than 20 mm in diameter)

A cell or component cell is to be crushed between two flat surfaces. The crushing is to be gradual with a speed of approximately 1.5 cm/s at the first point of contact. The crushing is to be continued until the first of the three options below is reached.

- The applied force reaches $13 \text{ kN} \pm 0.78 \text{ kN}$;
- The voltage of the cell drops by at least 100 mV ; or
- The cell is deformed by 50% or more of its original thickness.

Once the maximum pressure has been obtained, the voltage drops by 100 mV or more, or the cell is deformed by at least 50% of its original thickness, the pressure shall be released.

[illegible][illegible]



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A prismatic or pouch cell shall be crushed by applying the force to the widest side. A button/coin cell shall be crushed by applying the force on its flat surfaces. For cylindrical cells, the crush force shall be applied perpendicular to the longitudinal axis.

Each test cell or component cell is to be subjected to one crush only. The test sample shall be observed for a further 6 h. The test shall be conducted using test cells or component cells that have not previously been subjected to other tests.

Cells and component cells meet this requirement if their external temperature does not exceed 170 °C and there is no disassembly and no fire during the test and within six hours after this test.

T7: Overcharge

The charge current shall be twice the manufacturer's recommended maximum continuous charge current. The minimum voltage of the test shall be as follows:

- (a) When the manufacturer's recommended charge voltage is not more than 18V, the minimum voltage of the test shall be the lesser of two times the maximum charge voltage of the battery or 22V.
- (b) When the manufacturer's recommended charge voltage is more than 18V, the minimum voltage of the test shall be 1.2 times the maximum charge voltage.

Tests are to be conducted at ambient temperature; the duration of the test shall be 24 hours.

Rechargeable batteries meet this requirement if there is no disassembly and no fire during the test and within seven days after the test.

T.8 Forced discharge

Each cell shall be forced discharged at ambient temperature by connecting it in series with a 12V D.C. power supply at an initial current equal to the maximum discharge current specified by the manufacturer.

The specified discharge current is to be obtained by connecting a resistive load of the appropriate size and rating in series with the test cell. Each cell shall be forced discharged for a time interval (in hours) equal to its rated capacity divided by the initial test current (in ampere).

Primary or rechargeable cells meet this requirement if there is no disassembly and no fire during the test and within seven days after the test.

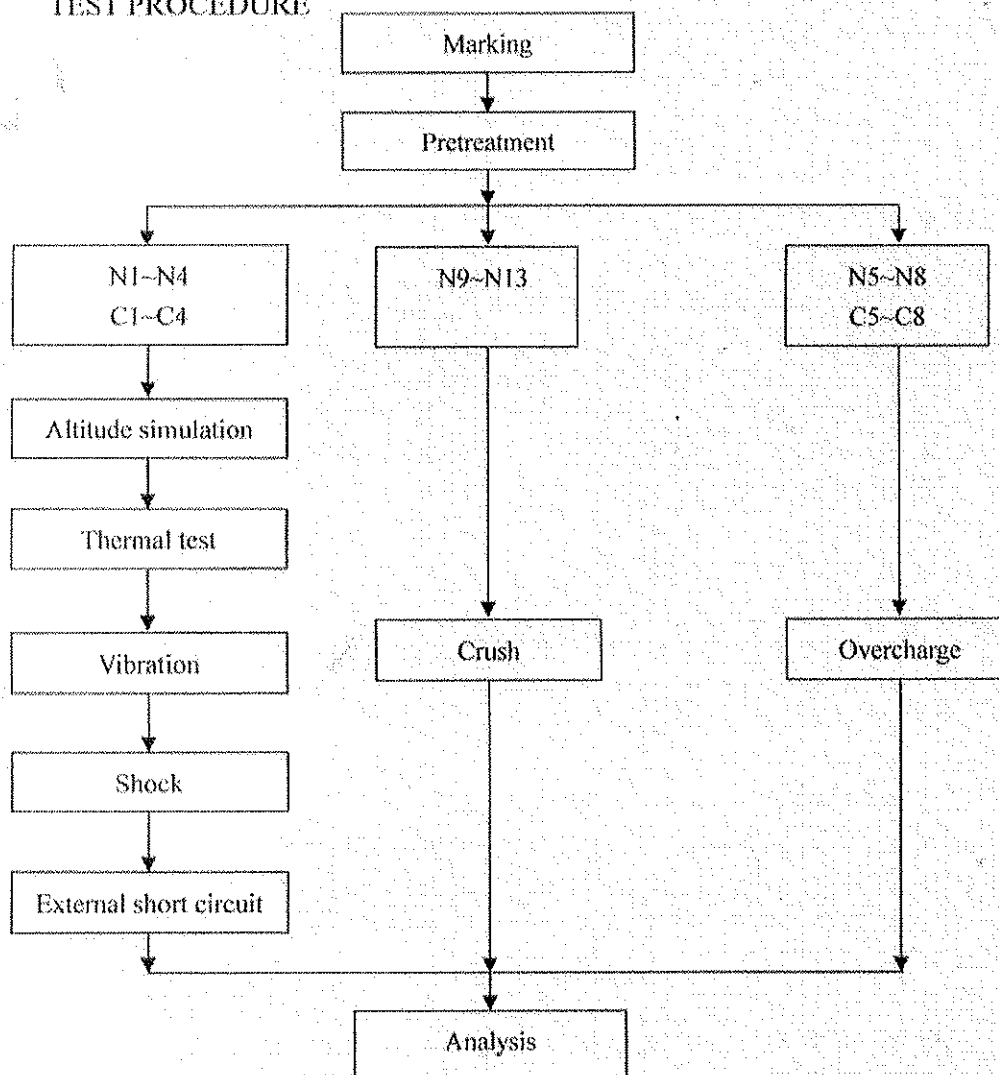
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陈丹青说：“中国当代艺术史，从某种意义上说，就是一部‘反传统’史。”



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VII、 TEST PROCEDURE



VIII、 MAIN TEST APPARATUS

SZSB-121 Rechargeable battery test system

SZSB-280 Vacuum chamber

SZSB-120 Temperature circulation chamber

SZSB-128 Vibration test instrument

SZSB-082 Shock test instrument

SZSB-281 Battery anti-explosion chamber

SZSB-077 DC regulated power supply

SZSB-198 Battery extrusion needling machine

SZSB-125 Electronic balance

SZSB-090 Digital multimeter

SZSB-185 Thermoelectric pair

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IX. DATA

1. Altitude simulation

No.	Pre-test		After test		Mass loss (%)	Voltage loss (%)	Whether leakage, venting, disassembly, rupture, fire (Y/N)
	Mass (g)	Voltage (V)	Mass (g)	Voltage (V)			
N1	38.295	4.17	38.295	4.17	0.000	0.00	N
N2	38.209	4.17	38.209	4.17	0.000	0.00	N
N3	38.354	4.17	38.353	4.17	0.003	0.00	N
N4	38.368	4.17	38.368	4.17	0.000	0.00	N
C1	38.251	4.17	38.251	4.17	0.000	0.00	N
C2	38.217	4.17	38.217	4.17	0.000	0.00	N
C3	38.364	4.17	38.364	4.17	0.000	0.00	N
C4	38.352	4.17	38.352	4.17	0.000	0.00	N

2. Thermal test

No.	Pre-test		After test		Mass loss (%)	Voltage loss (%)	Whether leakage, venting, disassembly, rupture, fire (Y/N)
	Mass (g)	Voltage (V)	Mass (g)	Voltage (V)			
N1	38.295	4.17	38.285	4.12	0.026	1.20	N
N2	38.209	4.17	38.196	4.12	0.034	1.20	N
N3	38.353	4.17	38.342	4.13	0.029	0.96	N
N4	38.368	4.17	38.358	4.12	0.026	1.20	N
C1	38.251	4.17	38.242	4.13	0.024	0.96	N
C2	38.217	4.17	38.206	4.13	0.029	0.96	N
C3	38.364	4.17	38.352	4.12	0.031	1.20	N
C4	38.352	4.17	38.342	4.12	0.026	1.20	N

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3. Vibration

No.	Pre-test		After test		Mass loss (%)	Voltage loss (%)	Whether leakage, venting, disassembly, rupture, fire (Y/N)
	Mass (g)	Voltage (V)	Mass (g)	Voltage (V)			
N1	38.285	4.12	38.285	4.12	0.000	0.00	N
N2	38.196	4.12	38.196	4.12	0.000	0.00	N
N3	38.342	4.13	38.341	4.12	0.003	0.24	N
N4	38.358	4.12	38.358	4.12	0.000	0.00	N
C1	38.242	4.13	38.242	4.12	0.000	0.24	N
C2	38.206	4.13	38.205	4.13	0.003	0.00	N
C3	38.352	4.12	38.352	4.12	0.000	0.00	N
C4	38.342	4.12	38.342	4.12	0.000	0.00	N

4. Shock

No.	Pre-test		After test		Mass loss (%)	Voltage loss (%)	Whether leakage, venting, disassembly, rupture, fire (Y/N)
	Mass (g)	Voltage (V)	Mass (g)	Voltage (V)			
N1	38.285	4.12	38.285	4.12	0.000	0.00	N
N2	38.196	4.12	38.196	4.12	0.000	0.00	N
N3	38.341	4.12	38.341	4.12	0.000	0.00	N
N4	38.358	4.12	38.357	4.12	0.003	0.00	N
C1	38.242	4.12	38.242	4.12	0.000	0.00	N
C2	38.205	4.13	38.205	4.12	0.000	0.24	N
C3	38.352	4.12	38.351	4.12	0.003	0.00	N
C4	38.342	4.12	38.342	4.12	0.000	0.00	N

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No.	Peak temperature (°C)	Whether disassembly, rupture, fire (Y/N)
N1	55	N
N2	59	N
N3	55	N
N4	57	N
C1	55	N
C2	56	N
C3	58	N
C4	55	N

No.	Peak temperature (°C)	Whether disassembly, fire (Y/N)
N9	25	N
N10	25	N
N11	26	N
N12	26	N
N13	25	N

No.	Whether disassembly, fire (Y/N)
N5	N
N6	N
N7	N
N8	N
C5	N
C6	N
C7	N
C8	N

N/A (Not applicable)

[illegible]