

Sony Electronics (Wuxi) Co., Ltd.

No.27, Changjiang Road, New District, Wuxi, Jiangsu Province, 214028 P.R.C

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Page: 1 of 7

リチウムイオン電池認証書 (類似機種用)
Lithium-ion cell or battery(polymer) cell or battery
Certification for Similar Models

No:SEW-CB15113

Date: 2015.11.22

1. ☒単電池/☐single cell ☒single cell battery☐組電池/battery(pack) (セル構成/composition of cell: 1P1S)

2. 機種名/customer model name: GA40 Sony model name: LIS1610MRPC

3. 顧客名/customer: Motorola

4. 定格/rated

項目/item	規格値/specification	備考/remarks
公称電圧/nominal voltage	3.8V	
定格容量/rated capacity	2810mAh	
ワット時定格値(Wh) /Watt-hour rating	10.7Wh	単電池/cells ≤20Wh 組電池/batteries≤100Wh

5. 類似機種及び試験結果/Similar Model and Test Result

1) 類似機種名/Similar Model (Sony model name): LIS1579 (3.8V, 2930mAh, 11.13Wh)

2) 試験結果/Test Result

国連勧告テスト結果/Test results of the UN Recommendations on the Transport of Dangerous Goods

国連勧告テスト及び判定基準 (38.3 リチウム電池)		テスト結果/ test results	備考/remarks
NO	テスト項目 test item		
T1	高度シミュレーション/Altitude simulation	OK	
T2	温度試験/Thermal test	OK	
T3	振動/Vibration	OK	
T4	衝撃/Shock	OK	
T5	外部短絡/External short circuit	OK	
T6	衝突 (Impact) /圧壊 (Crush)	OK	
T7	過充電/Overcharge	OK	single cell は対象外
T8	強制放電/Forced discharge	OK	

試験実施日/Tested Date: 2014/10/20~2015/10/30

梱包試験実施日/Tested Date for Package: 2015/11/22

上記テスト結果は国連勧告試験(UN Manual of Tests and Criteria 5th revised edition Amendment 2, Part III, sub-section 38.3)に従い確認した結果であることを証明いたします。

We, Sony Electronics (Wuxi) Co., Ltd., hereby certify that above results are confirmed in accordance with the Manual of Tests and Criteria of the UN Recommendations on the Transport of Dangerous Goods, 5th revised edition Amendment 2, Part III, sub-section 38.3.

3) 類似機種とのワット時定格値(Wh)、電圧比率/Ratios for Watt-hour, Voltage 類似機種に対して、ワット時定格値(Wh)の変化が20%以内、且つ電圧の増加が20%以内であることを証明します。

We certify the change of the subject model to the similar model is in Watt-hour rating of less than 20% and the increase in voltage of less than 20%.

LIS1610/LIS1579: ワット時定格値(Wh 比)/Watt-hour Ratio=96%、

電圧比/Voltage Ratio=100%

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A : Checklist for Judging New Type Cell or not

When there is no change in all items, it is NOT considered to be a New Type Cell.

(Change ⇒ ○、 No change ⇒ -)

Battery Pack Model : LIS1610

Component Cell Model : US4246A4H5

Check item	The element which is given influence	Presence of change
Safety parts and mechanical components	Are the safety parts and mechanical components of this cell the same as those of the test completion cell?	-
Cathode material system	Is cathode material system of this cell the same as that of the test completion cell?	-
Anode material system	Is anode material system of this cell the same as that of the test completion cell?	-
Electrolyte material system	Is electrolyte material system of this cell the same as that of the test completion cell?	-
Mass of cathode material	Is mass difference of the design center of each cell concerning cathode less than 20%?	-
Mass of anode material	Is mass difference of the design center of each cell concerning anode less than 20%?	-
Mass of electrolyte	Is mass difference of the design center of each cell concerning electrolyte less than 20%?	-
Judgment result	New Type or not	Not new

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B : Checklist for Judging New Type Battery or not

Confirmation of presence of change in "The element which is given influence"

(Change ⇒ ○, No change ⇒ -)

When there is no change in all items, it is NOT considered to be a New Type Battery.

Battery Pack Model : LIS1610

Test Item (Function)	The element which is given influence	Presence of change
T1 : Altitude Simulation (Decompression load)	• Crimped part, Gasket (Cell) • Gas Release Vent, Cell Case (Cell) • Pack (Plastic) Case • Holding Member (Insulator, Insulation Tape, Both Sides Tape) • Coating materials	—
T2 : Thermal Shock (Repetition of high temp. and low temp.)	• Crimped part, Gasket (Cell) • Gas Release Vent, Cell Case (Cell) • Finished state of Wound Electrodes (Cell) • Pack (Plastic) Case • Holding Member (Insulator, Insulation Tape, Both Sides Tape) • Coating materials	—
T3 : Vibration (Vibration load)	• Finished state of Wound Electrodes (Cell) • Electric wiring member • Electronic Parts on a circuit board • Cell Holding Member (Adhesive, Both Sides Tape, Lib of Plastic Case)	—
T4 : Shock (Shock load)	• Wiring Member • Electronic Parts on a circuit board • Cell Holding Member (Adhesive, Both Sides Tape, Lib of Plastic Case) • Finished state of Wound Electrodes (Cell)	—
T5 : External Short Circuit (Short current)	• Over-voltage Protection • Current Control Device • Safety Device of cell (Cell) • Lead Tab	—
T6(Cell) : Impact / Crush (Crash load)	• Separator (Cell) • Insulation State in a cell (Cell)	—
T7(Pack) : Overcharge (Charge load)	• Overcharge Protection • Thermal Device • Safety Device of cell (Cell)	—
T8(Cell) : Forced Discharge (Over discharge load)	• Finished state of Wound Electrodes (Cell)	—
Judgment result	New Type or not	Not new

国联劝告 结果 1

Test Result of UN Recommendations Part 1



机种名/Sony Model Name	LIS1579ERPC		
cell使用/Cell Model Name	US436177H5	构成/Configuration	1P 1S
试验场所/Test Company	索尼电子(无锡)有限公司		
地址/ Address	中国江苏省无锡市新区长江路27号	电话/Tel	86-18068308951
试验室/Test Room	SEW国联劝告试验室	试验期间/Test Dates	2014.10.20-2014.10.30
判定基准/Criterion	UN Manual of Tests and Criteria Rev5, Part III, sub-section 38.3		

试验名称/Test Name		T1: 高度模拟试验 Altitude Simulation						
番号 No.	电池状态 Conditions	试验前/Before		试验后/After		质量减少率/ Mass Loss (0.1%以下)	OCV维持率/ Residual OCV (90%以上)	现象确认/ Occurrence
		Mass(g)	OCV (V)	Mass(g)	OCV (V)			
1	初回满充电/ First cycle, fully charged	48.855	4.310	48.853	4.307	0.00%	99.9%	N
2		48.880	4.312	48.881	4.309	0.00%	99.9%	N
3		48.894	4.312	48.895	4.309	0.00%	99.9%	N
4		48.869	4.309	48.869	4.305	0.00%	99.9%	N
5		48.863	4.314	48.863	4.310	0.00%	99.9%	N
6		48.876	4.310	48.876	4.307	0.00%	99.9%	N
7		48.848	4.305	48.848	4.302	0.00%	99.9%	N
8		48.866	4.309	48.866	4.305	0.00%	99.9%	N
9		48.893	4.304	48.893	4.300	0.00%	99.9%	N
10		48.817	4.307	48.819	4.305	0.00%	100.0%	N

试验名称/Test Name		T2: 温度试验 Thermal						
番号 No.	电池状态 Conditions	试验前/Before		试验后/After		质量减少率/ Mass Loss (0.1%以下)	OCV维持率/ Residual OCV (90%以上)	现象确认/ Occurrence
		Mass(g)	OCV (V)	Mass(g)	OCV (V)			
1	初回满充电/ First cycle, fully charged	48.853	4.307	48.853	4.245	0.00%	98.6%	N
2		48.881	4.309	48.881	4.247	0.00%	98.6%	N
3		48.895	4.309	48.894	4.243	0.00%	98.5%	N
4		48.869	4.305	48.868	4.241	0.00%	98.5%	N
5		48.863	4.310	48.863	4.244	0.00%	98.5%	N
6		48.876	4.307	48.876	4.241	0.00%	98.5%	N
7		48.848	4.302	48.848	4.231	0.00%	98.3%	N
8		48.866	4.305	48.866	4.245	0.00%	98.6%	N
9		48.893	4.300	48.893	4.240	0.00%	98.6%	N
10		48.819	4.305	48.818	4.241	0.00%	98.5%	N

试验名称/Test Name		T3: 振动试验 Vibration						
番号 No.	电池状态 Conditions	试验前/Before		试验后/After		质量减少率/ Mass Loss (0.1%以下)	OCV维持率/ Residual OCV (90%以上)	现象确认/ Occurrence
		Mass(g)	OCV (V)	Mass(g)	OCV (V)			
1	初回满充电/ First cycle, fully charged	48.853	4.245	48.854	4.242	0.00%	99.9%	N
2		48.881	4.247	48.881	4.244	0.00%	99.9%	N
3		48.894	4.243	48.895	4.241	0.00%	100.0%	N
4		48.868	4.241	48.869	4.240	0.00%	100.0%	N
5		48.863	4.244	48.863	4.242	0.00%	100.0%	N
6		48.876	4.241	48.875	4.239	0.00%	100.0%	N
7		48.848	4.231	48.848	4.228	0.00%	99.9%	N
8		48.866	4.245	48.865	4.243	0.00%	100.0%	N
9		48.893	4.240	48.892	4.238	0.00%	100.0%	N
10		48.818	4.241	48.818	4.240	0.00%	100.0%	N

现象/Occurrence	破裂: R <Rupture> 起火: F <Fire> 解体: D <Disassembly> 排气: V <Venting> 渗漏: L <Leakage> 无异常: N <No rupture, No fire, No disassembly, No venting, No leakage>
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国联劝告试验 结果 2

Test Result of UN Recommendations Part 2

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试验名称/Test Name		T4: 冲击试验 Shock						
番号 No.	电池状态 Conditions	试验前/Before		试验后/After		质量减少率/ Mass Loss (0.1%以下)	OCV维持率/ Residual OCV (90%以上)	现象确认/ Occurrence
		Mass(g)	OCV (V)	Mass(g)	OCV (V)			
1	初回满充电/ First cycle, fully charged	48.854	4.242	48.854	4.242	0.00%	100.0%	N
2		48.881	4.244	48.882	4.243	0.00%	100.0%	N
3		48.895	4.241	48.895	4.241	0.00%	100.0%	N
4		48.869	4.240	48.868	4.240	0.00%	100.0%	N
5		48.863	4.242	48.864	4.242	0.00%	100.0%	N
6		48.875	4.239	48.876	4.238	0.00%	100.0%	N
7		48.848	4.228	48.847	4.228	0.00%	100.0%	N
8		48.865	4.243	48.866	4.243	0.00%	100.0%	N
9		48.892	4.238	48.893	4.238	0.00%	100.0%	N
10		48.818	4.240	48.819	4.240	0.00%	100.0%	N

现象/Occurrence 破裂:R <Rupture> 起火:F <Fire> 解体:D <Disassembly> 排气:V <Venting>
渗漏:L <Leakage> 无异常:N <No rupture, No fire, No disassembly, No venting, No leakage>

试验名称/Test Name		T5: 外短路试验 External Short Circuit					
番号 No.	电池状态 Conditions	最大表面温度/Max. Surface Temperature (°C) 170°C	现象确认/O ccurrence	番号 No.	电池状态 Conditions	最大表面温度/Max. Surface Temperature (°C) 170°C	现象确认/O ccurrence
1	初回满充电/ First cycle, fully charged	55.1°C	N	6	初回满充电/ First cycle, fully charged	55.3°C	N
2		56.3°C	N	7		55.4°C	N
3		55.3°C	N	8		55.4°C	N
4		56.2°C	N	9		55.4°C	N
5		55.0°C	N	10		55.4°C	N

现象/Occurrence 破裂:R <Rupture> 起火:F <Fire> 解体:D <Disassembly>
无异常:N <No rupture, No fire, No disassembly>

试验名称/Test Name		T6: 撞击(impact)/挤压(crush) 试验	
番号 No.	电池状态 Conditions	最大表面温度/Max. Surface Temperature (℃) 170℃	现象确认/Occurrence
1	初回 50%充电 (宽面)/ First cycle, 50% charged (wide surface)	<160℃	N
2		<160℃	N
3		<160℃	N
4		<160℃	N
5		<160℃	N
现象/Occurrence		解体: D <Disassembly> 起火: F <Fire> 无异常: N <No fire, No disassembly>	

试验名称/Test Name		T7:过充电试验		Overcharge	
番号 No.	电池状态 Conditions	现象确认/Occurrence	番号 No.	电池状态 Conditions	现象确认/Occurrence
1	初回满充电/ First cycle, fully charged	N	5	50次循环后 满充电/ After 50 cycles, fully charged	N
2		N	6		N
3		N	7		N
4		N	8		N
现象/Occurrence		起火:F <Fire> 解体:D <Disassembly> 无异常:N <No fire, No disassembly>			

* Temperature Measurement by Thermolabel



国联劝告试验 结果 3

Test Result of UN Recommendations Part 3

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试验名称 /Test Name			T8: 强制放电 Forced Discharge		
番号 N	电池状态 Conditions	现象确认 /Occurrence	番号 N	电池状态 Conditions	现象确认 /Occurrence
1	初次循环 完全放电 / First cycle, fully discharged	N	11	50次循环后 完全放电 / After 50 cycles, fully discharged	N
2		N	12		N
3		N	13		N
4		N	14		N
5		N	15		N
6		N	16		N
7		N	17		N
8		N	18		N
9		N	19		N
10		N	20		N
现象 / Occurrence		起火:F <Fire> 解体:D <Disassembly> 无异常:N <No fire, No disassembly>			



国連勧告試験 梱包結果

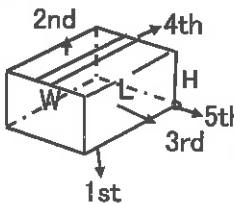
Test Result of UN Recommendations for Package

No : SEW-CB15113

DATE 11/22/2015

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試験場所/ Test Company	索尼电子(无锡)有限公司			
住所/ Address	中国江苏省无锡市新区长江路27号		電話/ Tel	86-18068308951
試験室/ Test Room	SEW国联劝告試験室	試験期間/ Test Dates	11/22/2015	試験番号/ Test N SEW-CB15113
機種名/ Sony Model Name	LIS1610		梱包入り数/ Quantity	120 pcs
使用セル/ Cell Model Name	US4246A4H5	構成/ Configuration	1P1S	梱包製造所/ Package Factor SEW
包装等級/ Packing Group	等級Ⅱ/Packing Group Number Ⅱ			
寸法・質量/ Dimensions and Gross Weight	長辺/Length (L)	短辺 /Wide (W)	高さ/Height (H)	質量 /Gross Weight (kg)
	400 mm	300 mm	160 mm	9.0 kg

■ 落下試験/Drop Test			
試験設備	HORAD PD-315		
試験条件/ Test condition	落下高さ /Drop height	1. 2m	試験結果 /Occurrence
	1回目の落下試験	底面を水平に/ flat on the bottom	著しい破損なし/No Leakage, No damage liable to affect safety during
	2回目の落下試験	天面を水平に / flat on the top	著しい破損なし/No Leakage, No damage liable to affect safety during
	3回目の落下試験	長側面を水平に/ flat on the long side	著しい破損なし/No Leakage, No damage liable to affect safety during
	4回目の落下試験	短側面を水平に/ flat on the short side	著しい破損なし/No Leakage, No damage liable to affect safety during
	5回目の落下試験	コーナー(角)※/ on a corner	著しい破損なし/No Leakage, No damage liable to affect safety during
	※コーナー: 容器が最も破損を受ける方向を選択		
判定基準/ Criterion	外装容器及び袋の場合、外装容器の最も外側の層に輸送中の安全を脅かすようないかなる破損が生じてはならない。		判定/ Judgment 合格/OK


Weiwei Tang / Senior Manager
Quality Assurance Department
Sony Electronics (Wuxi) Co., Ltd.
品保-P検-022(3)

総合判定

合格/OK

秘 | CONFIDENTIAL

1. 2m落下試験写真／1. 2mDrop Test Photo

リチウムイオン電池／lithium-ion cell or battery

ソニー機種名／Sony model name: LIS1610

Before



After



Sony Electronics (Wuxi) Co., Ltd.

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リチウムイオン電池認証書 (類似機種用)
Lithium-ion cell or battery(polymer) cell or battery
Certification for Similar Models

No:SEW-CB15113

Date: 2015.11.22

1. ☒ 単電池 / ☐ single cell ☒ single cell battery
☐ 組電池 / battery(pack) (セル構成 / composition of cell : 1P1S)
2. 機種名 / customer model name : GA40 Sony model name : LIS1610MRPC
3. 顧客名 / customer : Motorola
4. 定格 / rated

項目 / item	規格値 / specification	備考 / remarks
公称電圧 / nominal voltage	3.8V	
定格容量 / rated capacity	2810mAh	
ワット時定格値(Wh) / Watt-hour rating	10.7Wh	単電池/cells ≤20Wh 組電池/batteries ≤100Wh

5. 類似機種及び試験結果 / Similar Model and Test Result

1) 類似機種名 / Similar Model (Sony model name) : LIS1579 (3.8V, 2930mAh, 11.13Wh)

2) 試験結果 / Test Result

国連勧告テスト結果 / Test results of the UN Recommendations on the Transport of Dangerous Goods

国連勧告テスト及び判定基準 (38.3 リチウム電池)		テスト結果 / test results	備考 / remarks
NO	テスト項目 test item		
T1	高度シミュレーション / Altitude simulation	OK	
T2	温度試験 / Thermal test	OK	
T3	振動 / Vibration	OK	
T4	衝撃 / Shock	OK	
T5	外部短絡 / External short circuit	OK	
T6	衝突 (Impact) / 圧壊 (Crush)	OK	
T7	過充電 / Overcharge	OK	single cell は対象外
T8	強制放電 / Forced discharge	OK	

試験実施日 / Tested Date : 2014/10/20~2015/10/30

梱包試験実施日 / Tested Date for Package : 2015/11/22

上記テスト結果は国連勧告試験(UN Manual of Tests and Criteria 5th revised edition Amendment 2, Part III, sub-section 38.3)に従い確認した結果であることを証明いたします。

We, Sony Electronics (Wuxi) Co., Ltd., hereby certify that above results are confirmed in accordance with the Manual of Tests and Criteria of the UN Recommendations on the Transport of Dangerous Goods, 5th revised edition Amendment 2, Part III, sub-section 38.3.

- 3) 類似機種とのワット時定格値(Wh)、電圧比率 / Ratios for Watt-hour, Voltage 類似機種に対して、ワット時定格値(Wh)の変化が20%以内、且つ電圧の増加が20%以内であることを証明します。

We certify the change of the subject model to the similar model is in Watt-hour rating of less than 20% and the increase in voltage of less than 20%.

LIS1610 / LIS1579 : ワット時定格値(Wh 比) / Watt-hour Ratio = 96%、

電圧比 / Voltage Ratio = 100%

Weiwei Tang / Senior Manager
Quality Assurance Department
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A : Checklist for Judging New Type Cell or not

When there is no change in all items, it is NOT considered to be a New Type Cell.

(Change ⇒ ○、 No change ⇒ -)

Battery Pack Model : LIS1610

Component Cell Model : US4246A4H5

Check item	The element which is given influence	Presence of change
Safety parts and mechanical components	Are the safety parts and mechanical components of this cell the same as those of the test completion cell?	-
Cathode material system	Is cathode material system of this cell the same as that of the test completion cell?	-
Anode material system	Is anode material system of this cell the same as that of the test completion cell?	-
Electrolyte material system	Is electrolyte material system of this cell the same as that of the test completion cell?	-
Mass of cathode material	Is mass difference of the design center of each cell concerning cathode less than 20%?	-
Mass of anode material	Is mass difference of the design center of each cell concerning anode less than 20%?	-
Mass of electrolyte	Is mass difference of the design center of each cell concerning electrolyte less than 20%?	-
Judgment result	New Type or not	Not new

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Phone: 86-510-8523-9120 / Fax: 86-510-8523-8505

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B : Checklist for Judging New Type Battery or not

Confirmation of presence of change in "The element which is given influence"

(Change ⇒ ○, No change ⇒ -)

When there is no change in all items, it is NOT considered to be a New Type Battery.

Battery Pack Model : LIS1610

Test Item (Function)	The element which is given influence	Presence of change
T1 : Altitude Simulation (Decompression load)	• Crimped part, Gasket (Cell) • Gas Release Vent, Cell Case (Cell) • Pack (Plastic) Case • Holding Member (Insulator, Insulation Tape, Both Sides Tape) • Coating materials	—
T2 : Thermal Shock (Repetition of high temp. and low temp.)	• Crimped part, Gasket (Cell) • Gas Release Vent, Cell Case (Cell) • Finished state of Wound Electrodes (Cell) • Pack (Plastic) Case • Holding Member (Insulator, Insulation Tape, Both Sides Tape) • Coating materials	—
T3 : Vibration (Vibration load)	• Finished state of Wound Electrodes (Cell) • Electric wiring member • Electronic Parts on a circuit board • Cell Holding Member (Adhesive, Both Sides Tape, Lib of Plastic Case)	—
T4 : Shock (Shock load)	• Wiring Member • Electronic Parts on a circuit board • Cell Holding Member (Adhesive, Both Sides Tape, Lib of Plastic Case) • Finished state of Wound Electrodes (Cell)	—
T5 : External Short Circuit (Short current)	• Over-voltage Protection • Current Control Device • Safety Device of cell (Cell) • Lead Tab	—
T6(Cell) : Impact / Crush (Crash load)	• Separator (Cell) • Insulation State in a cell (Cell)	—
T7(Pack) : Overcharge (Charge load)	• Overcharge Protection • Thermal Device • Safety Device of cell (Cell)	—
T8(Cell) : Forced Discharge (Over discharge load)	• Finished state of Wound Electrodes (Cell)	—
Judgment result	New Type or not	Not new

国联劝告 结果 1

Test Result of UN Recommendations Part 1



机种名/Sony Model Name	LIS1579ERPC		
cell使用/Cell Model Name	US436177H5	构成/Configuration	1P 1S
试验场所/Test Company	索尼电子(无锡)有限公司		
地址/ Address	中国江苏省无锡市新区长江路27号	电话/Tel	86-18068308951
试验室/Test Room	SEW国联劝告试验室	试验期间/Test Dates	2014.10.20-2014.10.30
判定基准/Criterion	UN Manual of Tests and Criteria Rev5, Part III, sub-section 38.3		

试验名称/Test Name		T1: 高度模拟试验 Altitude Simulation						
番号 No.	电池状态 Conditions	试验前/Before		试验后/After		质量减少率/ Mass Loss (0.1%以下)	OCV维持率/ Residual OCV (90%以上)	现象确认/ Occurrence
		Mass(g)	OCV (V)	Mass(g)	OCV (V)			
1	初回满充电/ First cycle, fully charged	48.855	4.310	48.853	4.307	0.00%	99.9%	N
2		48.880	4.312	48.881	4.309	0.00%	99.9%	N
3		48.894	4.312	48.895	4.309	0.00%	99.9%	N
4		48.869	4.309	48.869	4.305	0.00%	99.9%	N
5		48.863	4.314	48.863	4.310	0.00%	99.9%	N
6		48.876	4.310	48.876	4.307	0.00%	99.9%	N
7		48.848	4.305	48.848	4.302	0.00%	99.9%	N
8		48.866	4.309	48.866	4.305	0.00%	99.9%	N
9		48.893	4.304	48.893	4.300	0.00%	99.9%	N
10		48.817	4.307	48.819	4.305	0.00%	100.0%	N

试验名称/Test Name		T2: 温度试验 Thermal						
番号 No.	电池状态 Conditions	试验前/Before		试验后/After		质量减少率/ Mass Loss (0.1%以下)	OCV维持率/ Residual OCV (90%以上)	现象确认/ Occurrence
		Mass(g)	OCV (V)	Mass(g)	OCV (V)			
1	初回满充电/ First cycle, fully charged	48.853	4.307	48.853	4.245	0.00%	98.6%	N
2		48.881	4.309	48.881	4.247	0.00%	98.6%	N
3		48.895	4.309	48.894	4.243	0.00%	98.5%	N
4		48.869	4.305	48.868	4.241	0.00%	98.5%	N
5		48.863	4.310	48.863	4.244	0.00%	98.5%	N
6		48.876	4.307	48.876	4.241	0.00%	98.5%	N
7		48.848	4.302	48.848	4.231	0.00%	98.3%	N
8		48.866	4.305	48.866	4.245	0.00%	98.6%	N
9		48.893	4.300	48.893	4.240	0.00%	98.6%	N
10		48.819	4.305	48.818	4.241	0.00%	98.5%	N

试验名称/Test Name		T3: 振动试验 Vibration						
番号 No.	电池状态 Conditions	试验前/Before		试验后/After		质量减少率/ Mass Loss (0.1%以下)	OCV维持率/ Residual OCV (90%以上)	现象确认/ Occurrence
		Mass(g)	OCV (V)	Mass(g)	OCV (V)			
1	初回满充电/ First cycle, fully charged	48.853	4.245	48.854	4.242	0.00%	99.9%	N
2		48.881	4.247	48.881	4.244	0.00%	99.9%	N
3		48.894	4.243	48.895	4.241	0.00%	100.0%	N
4		48.868	4.241	48.869	4.240	0.00%	100.0%	N
5		48.863	4.244	48.863	4.242	0.00%	100.0%	N
6		48.876	4.241	48.875	4.239	0.00%	100.0%	N
7		48.848	4.231	48.848	4.228	0.00%	99.9%	N
8		48.866	4.245	48.865	4.243	0.00%	100.0%	N
9		48.893	4.240	48.892	4.238	0.00%	100.0%	N
10		48.818	4.241	48.818	4.240	0.00%	100.0%	N

现象/Occurrence	破裂: R <Rupture> 起火: F <Fire> 解体: D <Disassembly> 排气: V <Venting> 渗漏: L <Leakage> 无异常: N <No rupture, No fire, No disassembly, No venting, No leakage>
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国联劝告试验 结果 2

Test Result of UN Recommendations Part 2

No: SEW-CB15113

DATE: 2015.11.22

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试验名称/Test Name		T4: 冲击试验 Shock						
番号 No.	电池状态 Conditions	试验前/Before		试验后/After		质量减少率/ Mass Loss (0.1%以下)	OCV维持率/ Residual OCV (90%以上)	现象确认/ Occurrence
		Mass(g)	OCV (V)	Mass(g)	OCV (V)			
1	初回满充电/ First cycle, fully charged	48.854	4.242	48.854	4.242	0.00%	100.0%	N
2		48.881	4.244	48.882	4.243	0.00%	100.0%	N
3		48.895	4.241	48.895	4.241	0.00%	100.0%	N
4		48.869	4.240	48.868	4.240	0.00%	100.0%	N
5		48.863	4.242	48.864	4.242	0.00%	100.0%	N
6		48.875	4.239	48.876	4.238	0.00%	100.0%	N
7		48.848	4.228	48.847	4.228	0.00%	100.0%	N
8		48.865	4.243	48.866	4.243	0.00%	100.0%	N
9		48.892	4.238	48.893	4.238	0.00%	100.0%	N
10		48.818	4.240	48.819	4.240	0.00%	100.0%	N

现象/Occurrence 破裂:R <Rupture> 起火:F <Fire> 解体:D <Disassembly> 排气:V <Venting>
渗漏:L <Leakage> 无异常:N <No rupture, No fire, No disassembly, No venting, No leakage>

试验名称/Test Name		T5: 外短路试验 External Short Circuit					
番号 No.	电池状态 Conditions	最大表面温度/Max. Surface Temperature (°C) 170°C	现象确认/O ccurrence	番号 No.	电池状态 Conditions	最大表面温度/Max. Surface Temperature (°C) 170°C	现象确认/O ccurrence
1	初回满充电/ First cycle, fully charged	55.1°C	N	6	初回满充电/ First cycle, fully charged	55.3°C	N
2		56.3°C	N	7		55.4°C	N
3		55.3°C	N	8		55.4°C	N
4		56.2°C	N	9		55.4°C	N
5		55.0°C	N	10		55.4°C	N

现象/Occurrence 破裂:R <Rupture> 起火:F <Fire> 解体:D <Disassembly>
无异常:N <No rupture, No fire, No disassembly>

试验名称/Test Name		T6: 撞击(impact)/挤压(crush) 试验	
番号 No.	电池状态 Conditions	最大表面温度/Max. Surface Temperature (℃) 170℃	现象确认/Occurrence
1	初回 50%充电 (宽面)/ First cycle, 50% charged (wide surface)	<160℃	N
2		<160℃	N
3		<160℃	N
4		<160℃	N
5		<160℃	N
现象/Occurrence		解体: D <Disassembly> 起火: F <Fire> 无异常: N <No fire, No disassembly>	

试验名称/Test Name		T7:过充电试验		Overcharge	
番号 No.	电池状态 Conditions	现象确认/Occurrence	番号 No.	电池状态 Conditions	现象确认/Occurrence
1	初回满充电/ First cycle, fully charged	N	5	50次循环后 满充电/ After 50 cycles, fully charged	N
2		N	6		N
3		N	7		N
4		N	8		N
现象/Occurrence		起火:F <Fire> 解体:D <Disassembly> 无异常:N <No fire, No disassembly>			

* Temperature Measurement by Thermolabel



国联劝告试验 结果 3

Test Result of UN Recommendations Part 3

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试验名称 /Test Name		T8: 强制放电 Forced Discharge			
番号 N	电池状态 Conditions	现象确认 /Occurrence	番号 N	电池状态 Conditions	现象确认 /Occurrence
1	初次循环 完全放电 / First cycle, fully discharged	N	11	50次循环后 完全放电 / After 50 cycles, fully discharged	N
2		N	12		N
3		N	13		N
4		N	14		N
5		N	15		N
6		N	16		N
7		N	17		N
8		N	18		N
9		N	19		N
10		N	20		N
现象 / Occurrence		起火:F <Fire> 解体:D <Disassembly> 无异常:N <No fire, No disassembly>			



国連勧告試験 梱包結果

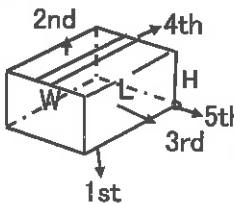
Test Result of UN Recommendations for Package

No : SEW-CB15113

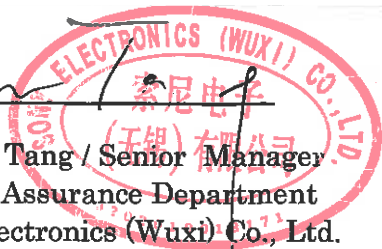
DATE 11/22/2015

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試験場所/ Test Company	索尼电子(无锡)有限公司			
住所/ Address	中国江苏省无锡市新区长江路27号			電話/ Tel 86-18068308951
試験室/ Test Room	SEW国联劝告試験室	試験期間/ Test Dates	11/22/2015	試験番号/ Test N SEW-CB15113
機種名/ Sony Model Name	LIS1610		梱包入り数/ Quantity	120 pcs
使用セル/ Cell Model Name	US4246A4H5	構成/ Configuration	1P1S	梱包製造所/ Package Factor SEW
包装等級/ Packing Group	等級Ⅱ/Packing Group Number Ⅱ			
寸法・質量/ Dimensions and Gross Weight	長辺/Length (L)	短辺 /Wide (W)	高さ/Height (H)	質量 /Gross Weight (kg)
	400 mm	300 mm	160 mm	9.0 kg

■ 落下試験/Drop Test			
試験設備	HORAD PD-315		
試験条件/ Test condition	落下高さ /Drop height	1. 2m	試験結果 /Occurrence
	1回目の落下試験	底面を水平に/ flat on the bottom	著しい破損なし/No Leakage, No damage liable to affect safety during
	2回目の落下試験	天面を水平に / flat on the top	著しい破損なし/No Leakage, No damage liable to affect safety during
	3回目の落下試験	長側面を水平に/ flat on the long side	著しい破損なし/No Leakage, No damage liable to affect safety during
	4回目の落下試験	短側面を水平に/ flat on the short side	著しい破損なし/No Leakage, No damage liable to affect safety during
	5回目の落下試験	コーナー(角)※/ on a corner	著しい破損なし/No Leakage, No damage liable to affect safety during
	※コーナー: 容器が最も破損を受ける方向を選択		
判定基準/ Criterion	外装容器及び袋の場合、外装容器の最も外側の層に輸送中の安全を脅かすようないかなる破損が生じてはならない。		判定/ Judgment 合格/OK


Weiwei Tang / Senior Manager
Quality Assurance Department
Sony Electronics (Wuxi) Co., Ltd.
品保-P検-022(3)



総合判定
合格/OK

秘 | CONFIDENTIAL

1. 2m落下試験写真／1. 2mDrop Test Photo

リチウムイオン電池／lithium-ion cell or battery

ソニー機種名／Sony model name: LIS1610

Before



After





中国认可
国际互认
检测
TESTING
CNAS L3767

检测报告

Test Report

报告编号 (Report No.): RTN-UN-1512-004

样品名称: 锂离子电池

Sample Name: Li-ion battery

样品型号: GA40

Sample Model: GA40

委托单位: 东莞新能源科技有限公司

Consignor: Dongguan AmpereX Technology Limited

东莞新能源科技有限公司测试中心

Dongguan AmpereX Technology Limited Test Center

样品名称 Sample name	锂离子电池 Li-ion battery	测试类别 Test category	委托检测 After testing	
样品型号 Sample model	GA40	样品接收日期 Accepted date	2015-11-20	
样品规格 Sample specification	3.8V 10.7Wh	测试开始日期 Test start date	2015-11-22	
样品数量(个) Sample quantity(pcs)	43	测试结束日期 Test end date	2015-12-06	
委托单位 Consignor	东莞新能源科技有限公司 Dongguan Amperex Technology Limited			
委托单位地址 Consignor address	中国广东省东莞市松山湖科技园工业西路1号 West Industrial Road 1#, Songshan Lake Industry Park, Dongguan City, Guangdong Province, P. R. China			
制造商 Manufacturer	宁德新能源科技有限公司 Ningde Amperex Technology Limited			
制造商地址 Manufacturer address	福建省宁德市蕉城区漳树湾镇新港路1号 XinGangRoad,Zhang WanTown,Jiaochengcity,NingDe,FujianProvinve,PRC			
测试环境条件 Test environment condition	环境温度: 15℃ - 25℃; 环境湿度: 45%~75% Ambient temperature: 15℃ - 25℃; Ambient humidity: 45%~75%			
样品外观 Appearance	银色尼龙/铝/聚丙烯复合膜 Silver nylon/Al/PP compound film			
测试方法和判定标准 Test method and criterion	联合国《关于危险货物运输的建议书 试验和标准手册》 ST/SG/AC.10/11 Rev5, amend 2, 38.3 UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS" Manual of Tests and Criteria ST/SG/AC.10/11 Rev5, amend 2, 38.3			
测试项目 Test items	高度模拟、温度试验、振动、冲击、外部短路、挤压、过度充电、强制放电 Altitude simulation, Thermal test, Vibration, Shock, External short circuit, Crush, Overcharge, Forced discharge			
测试结论 Conclusion	经测试, 该样品符合联合国《关于危险货物运输的建议书 试验和标准手册》ST/SG/AC.10/11 Rev5, amend 2, 38.3 标准的要求 The sample has passed the test items of UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS" Manual of Tests and Criteria ST/SG/AC.10/11 Rev5, amend 2, 38.3			
测试人员 Testers	孙凯旋 2015.12.11 王绪成 2015.12.11 黎卓超 2015.12.11			
编制人员 Compiler	陈雅 2015.12.11		 东莞新能源科技有限公司 测试中心 Dongguan Amperex Technology Limited Test Center (签章) (signature)	
审核 Checker	陈雅 2015.12.11			
批准 Approval	郭佳丽 2015.12.11			
	蔡京晶: 技术负责人 Cai JingJing: Technical Director 郭佳丽: 中心主任 Guo Jiali: Center Director			

序号 No.	测试项目名称 Name of test	标准要求或标准条款号 Standard requirement or the clause number of standard	测试结果 Test result	本项结论 Test conclusion	备注 Remark	
1	高度模拟 Altitude simulation	联合国《关于危险货物运输的建议书 试验和标准手册》试验 T1; UN Manual of Test and Criteria ST/SG/AC.10/11/Rev.5, amend 2, 38.3 Test 1	见附表 1 See Appendix 1	合格 Passed	/	
2	温度试验 Thermal	联合国《关于危险货物运输的建议书 试验和标准手册》试验 T2; UN Manual of Test and Criteria ST/SG/AC.10/11/Rev.5, amend 2, 38.3 Test 2	见附表 2 See Appendix 2	合格 Passed	/	
3	振动 Vibration	联合国《关于危险货物运输的建议书 试验和标准手册》试验 T3; UN Manual of Test and Criteria ST/SG/AC.10/11/Rev.5, amend 2, 38.3 Test 3	见附表 3 See Appendix 3	合格 Passed	/	
4	冲击 Shock	联合国《关于危险货物运输的建议书 试验和标准手册》试验 T4; UN Manual of Test and Criteria ST/SG/AC.10/11/Rev.5, amend 2, 38.3 Test 4	见附表 4 See Appendix 4	合格 Passed	/	
5	外部短路 External short-circuit	联合国《关于危险货物运输的建议书 试验和标准手册》试验 T5; UN Manual of Test and Criteria ST/SG/AC.10/11/Rev.5, amend 2, 38.3 Test 5	见附表 5 See Appendix 5	合格 Passed	/	
6	挤压/撞击 Crush/Impact	联合国《关于危险货物运输的建议书 试验和标准手册》试验 T6; UN Manual of Test and Criteria ST/SG/AC.10/11/Rev.5, amend 2, 38.3 Test 6	见附表 6 See Appendix 6	合格 Passed	/	
7	过度充电 Overcharge	联合国《关于危险货物运输的建议书 试验和标准手册》试验 T7; UN Manual of Test and Criteria ST/SG/AC.10/11/Rev.5, amend 2, 38.3 Test 7	见附表 7 See Appendix 7	合格 Passed	/	
8	强制放电 Forced discharge	联合国《关于危险货物运输的建议书 试验和标准手册》试验 T8; UN Manual of Test and Criteria ST/SG/AC.10/11/Rev.5, amend 2, 38.3 Test 8	见附表 8 See Appendix 8	合格 Passed	/	
分包测试情况 Subcontracted test condition		测试项目 Test items	/			
		分包实验室 Subcontracted Laboratory	名称 Name	/	邮编 Post code	/
			地址 Address	/	电话 Tel.	/

序号 No.	1	测试项目名称 Name of test items		高度模拟 Altitude simulation				
样品编号 Sample No.	样品状态 Sample status	测试前 Before test		测试后 After test		质量损失 Mass loss (%)	剩余电压 Residual OCV (%)	测试结果 Test result
		电池质量 m_1 (g)	开路电压 U_1 (V)	电池质量 m_2 (g)	开路电压 U_2 (V)			
1AA0787	首次完全充电 1cyc fully charged	45.8725	4.317	45.8719	4.312	0.00%	99.88%	O
1AA0525	首次完全充电 1cyc fully charged	45.9368	4.318	45.9362	4.314	0.00%	99.91%	O
1AA0815	首次完全充电 1cyc fully charged	45.9156	4.316	45.9149	4.311	0.00%	99.88%	O
1AA0268	首次完全充电 1cyc fully charged	45.8979	4.316	45.8973	4.312	0.00%	99.91%	O
1AA0252	首次完全充电 1cyc fully charged	46.0026	4.317	46.0018	4.313	0.00%	99.91%	O
1AA0671	首次完全充电 1cyc fully charged	45.7831	4.316	45.7833	4.313	0.00%	99.93%	O
1AA0829	首次完全充电 1cyc fully charged	45.7982	4.316	45.7977	4.312	0.00%	99.91%	O
1AA0533	首次完全充电 1cyc fully charged	45.9998	4.318	45.9994	4.313	0.00%	99.88%	O
1AA0523	首次完全充电 1cyc fully charged	46.0323	4.317	46.0316	4.313	0.00%	99.91%	O
1AA0519	首次完全充电 1cyc fully charged	45.9757	4.317	45.9759	4.312	0.00%	99.88%	O
以下空白								

注: L-泄漏; V-排气; D-解体; R-破裂; F-起火; O-无泄漏, 无排气, 无解体, 无破裂, 无起火。

Note: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire, O- No leakage, no venting, no disassembly, no rupture & no fire.

序号 No.	2	测试项目名称 Name of test items		温度试验 Thermal test				
样品编号 Sample No.	样品状态 Sample status	测试前 Before test		测试后 After test		质量损失 Mass loss (%)	剩余电压 Residual OCV (%)	测试结果 Test result
		电池质量 m_1 (g)	开路电压 U_1 (V)	电池质量 m_2 (g)	开路电压 U_2 (V)			
1AA0787	首次完全充电 1cyc fully charged	45.8719	4.312	45.8643	4.247	0.02%	98.49%	O
1AA0525	首次完全充电 1cyc fully charged	45.9362	4.314	45.9277	4.250	0.02%	98.52%	O
1AA0815	首次完全充电 1cyc fully charged	45.9149	4.311	45.9076	4.246	0.02%	98.49%	O
1AA0268	首次完全充电 1cyc fully charged	45.8973	4.312	45.8919	4.248	0.01%	98.52%	O
1AA0252	首次完全充电 1cyc fully charged	46.0018	4.313	45.9946	4.248	0.02%	98.49%	O
1AA0671	首次完全充电 1cyc fully charged	45.7833	4.313	45.7768	4.247	0.01%	98.47%	O
1AA0829	首次完全充电 1cyc fully charged	45.7977	4.312	45.7922	4.248	0.01%	98.52%	O
1AA0533	首次完全充电 1cyc fully charged	45.9994	4.313	45.9915	4.249	0.02%	98.52%	O
1AA0523	首次完全充电 1cyc fully charged	46.0316	4.313	46.0239	4.248	0.02%	98.49%	O
1AA0519	首次完全充电 1cyc fully charged	45.9759	4.312	45.9687	4.247	0.02%	98.49%	O
以下空白								

注: L-泄漏; V-排气; D-解体; R-破裂; F-起火; O-无泄漏, 无排气, 无解体, 无破裂, 无起火。
 Note: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire, O- No leakage, no venting, no disassembly, no rupture & no fire.

序号 No.	3	测试项目名称 Name of test items		振动 Vibration				
样品编号 Sample No.	样品状态 Sample status	测试前 Before test		测试后 After test		质量损失 Mass loss (%)	剩余电压 Residual OCV (%)	测试结果 Test result
		电池质量 m_1 (g)	开路电压 U_1 (V)	电池质量 m_2 (g)	开路电压 U_2 (V)			
1AA0787	首次完全充电 1cyc fully charged	45.8643	4.247	45.8632	4.246	0.00%	99.98%	O
1AA0525	首次完全充电 1cyc fully charged	45.9277	4.250	45.9268	4.249	0.00%	99.98%	O
1AA0815	首次完全充电 1cyc fully charged	45.9076	4.246	45.9069	4.246	0.00%	100.00%	O
1AA0268	首次完全充电 1cyc fully charged	45.8919	4.248	45.8905	4.248	0.00%	100.00%	O
1AA0252	首次完全充电 1cyc fully charged	45.9946	4.248	45.9941	4.247	0.00%	99.98%	O
1AA0671	首次完全充电 1cyc fully charged	45.7768	4.247	45.7757	4.247	0.00%	100.00%	O
1AA0829	首次完全充电 1cyc fully charged	45.7922	4.248	45.7915	4.248	0.00%	100.00%	O
1AA0533	首次完全充电 1cyc fully charged	45.9915	4.249	45.9906	4.248	0.00%	99.98%	O
1AA0523	首次完全充电 1cyc fully charged	46.0239	4.248	46.0224	4.247	0.00%	99.98%	O
1AA0519	首次完全充电 1cyc fully charged	45.9687	4.247	45.9672	4.247	0.00%	100.00%	O
以下空白								

注: L-泄漏; V-排气; D-解体; R-破裂; F-起火; O-无泄漏, 无排气, 无解体, 无破裂, 无起火。
 Note: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire, O- No leakage, no venting, no disassembly, no rupture & no fire.

序号 No.	4	测试项目名称 Name of test items		冲击 Shock				
样品编号 Sample No.	样品状态 Sample status	测试前 Before test		测试后 After test		质量损失 Mass loss (%)	剩余电压 Residual OCV (%)	测试结果 Test result
		电池质量 m_1 (g)	开路电压 U_1 (V)	电池质量 m_2 (g)	开路电压 U_2 (V)			
1AA0787	首次完全充电 1cyc fully charged	45.8632	4.246	45.8629	4.245	0.00%	99.98%	O
1AA0525	首次完全充电 1cyc fully charged	45.9268	4.249	45.9272	4.247	0.00%	99.95%	O
1AA0815	首次完全充电 1cyc fully charged	45.9069	4.246	45.9062	4.245	0.00%	99.98%	O
1AA0268	首次完全充电 1cyc fully charged	45.8905	4.248	45.8899	4.247	0.00%	99.98%	O
1AA0252	首次完全充电 1cyc fully charged	45.9941	4.247	45.9939	4.246	0.00%	99.98%	O
1AA0671	首次完全充电 1cyc fully charged	45.7757	4.247	45.7760	4.245	0.00%	99.95%	O
1AA0829	首次完全充电 1cyc fully charged	45.7915	4.248	45.7912	4.247	0.00%	99.98%	O
1AA0533	首次完全充电 1cyc fully charged	45.9906	4.248	45.9895	4.247	0.00%	99.98%	O
1AA0523	首次完全充电 1cyc fully charged	46.0224	4.247	46.0215	4.247	0.00%	100.00%	O
1AA0519	首次完全充电 1cyc fully charged	45.9672	4.247	45.9667	4.246	0.00%	99.98%	O
以下空白								

注: L-泄漏; V-排气; D-解体; R-破裂; F-起火; O-无泄漏, 无排气, 无解体, 无破裂, 无起火。

Note: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire, O- No leakage, no venting, no disassembly, no rupture & no fire.

序号 No.	5	测试项目名称 Name of test items	外部短路 External short circuit	
样品编号 Sample No.	样品状态 Sample status	样品表面最高温度 Max. External Temperature (°C)	测试结果 Test result	备注 Remark
1AA0787	首次完全充电 1cyc fully charged	56.3	O	/
1AA0525	首次完全充电 1cyc fully charged	56.3	O	/
1AA0815	首次完全充电 1cyc fully charged	56.4	O	/
1AA0268	首次完全充电 1cyc fully charged	56.0	O	/
1AA0252	首次完全充电 1cyc fully charged	55.8	O	/
1AA0671	首次完全充电 1cyc fully charged	56.6	O	/
1AA0829	首次完全充电 1cyc fully charged	56.5	O	/
1AA0533	首次完全充电 1cyc fully charged	56.4	O	/
1AA0523	首次完全充电 1cyc fully charged	56.3	O	/
1AA0519	首次完全充电 1cyc fully charged	56.1	O	/
以下空白				
注: D-解体; R-破裂; F-起火; O-无解体, 无破裂, 无起火。 Note: D-Disassembly, R-Rupture, F-Fire, O- No disassembly, no rupture & no fire.				

[illegible]

序号 No.	7	测试项目名称 Name of test items	过度充电 Overcharge
样品编号 Sample No.	样品状态 Sample status	测试结果 Test result	备注 Remark
1AA0812	首次完全充电 1cyc fully charged	O	/
1AA0296	首次完全充电 1cyc fully charged	O	/
1AA0299	首次完全充电 1cyc fully charged	O	/
1AA0839	首次完全充电 1cyc fully charged	O	/
1AA0285	50次完全充电 50cyc fully charged	O	/
1AA0538	50次完全充电 50cyc fully charged	O	/
1AA0413	50次完全充电 50cyc fully charged	O	/
1AA0568	50次完全充电 50cyc fully charged	O	/
以下空白			

注：D-解体； F-起火； O-无解体，无起火。

Note: D-Disassembly, F-Fire, O- No disassembly, no fire.

序号 No.	8	测试项目名称 Name of test items	强制放电 Forced discharge
样品编号 Sample No.	样品状态 Sample status	测试结果 Test result	备注 Remark
1AA0843	首次完全放电 1cyc fully discharged	O	/
1AA0567	首次完全放电 1cyc fully discharged	O	/
1AA0680	首次完全放电 1cyc fully discharged	O	/
1AA0565	首次完全放电 1cyc fully discharged	O	/
1AA0593	首次完全放电 1cyc fully discharged	O	/
1AA0548	首次完全放电 1cyc fully discharged	O	/
1AA0844	首次完全放电 1cyc fully discharged	O	/
1AA0576	首次完全放电 1cyc fully discharged	O	/
1AA0550	首次完全放电 1cyc fully discharged	O	/
1AA0555	首次完全放电 1cyc fully discharged	O	/
1AA0683	50 次完全放电 50yc fully discharged	O	/
1AA0590	50 次完全放电 50yc fully discharged	O	/
1AA0571	50 次完全放电 50yc fully discharged	O	/
1AA0837	50 次完全放电 50yc fully discharged	O	/
1AA0518	50 次完全放电 50yc fully discharged	O	/
1AA0522	50 次完全放电 50yc fully discharged	O	/
1AA0521	50 次完全放电 50yc fully discharged	O	/
1AA0539	50 次完全放电 50yc fully discharged	O	/
1AA0408	50 次完全放电 50yc fully discharged	O	/
1AA0308	50 次完全放电 50yc fully discharged	O	/
注: D-解体; F-起火; O-无解体, 无起火。 Note: D-Disassembly, F-Fire, O- No disassembly, no fire.			

测试样品图片

Test sample image



图 1: 正面
Figure 1: positive



图 2: 反面
Figure 2: negative

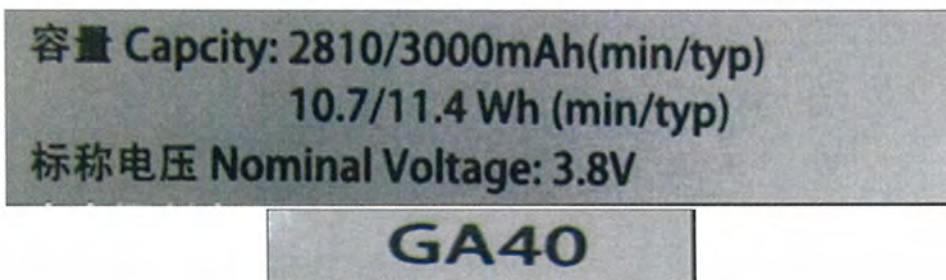


图 3: 标识
Figure 3: Logo

声 明

Statement

1. 检测报告无本实验室公章无效。

The test report is invalid if not affixed the official seal of the laboratory to it.

2. 检测报告涂改无效。

The test report is invalid if it is blotted out.

3. 送样委托检测结果，仅对所送样品有效。

The conclusion of the consignment test is only valid for the provided sample.

4. 本报告未经本实验室书面许可，不可部分复制。

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