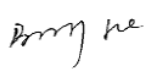
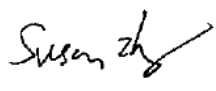
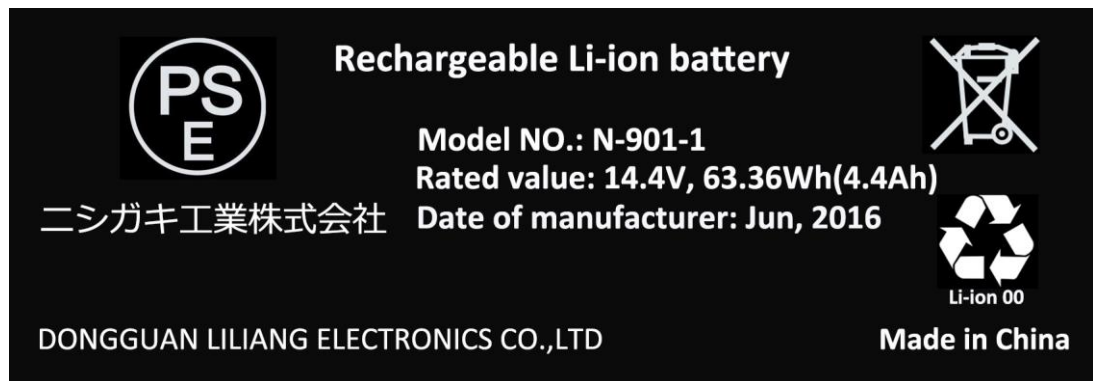


試験報告書番号: <i>Test Report No.</i>	16075731 001	頁:	Page 1 of 15
申請者: <i>Applicant:</i>	Dongguan Liliang Electronics Co., LTD Floor 3, Building A, Wanjia Technology Park, No. 88, Yayuan Industry Road, Nancheng District, Dongguan City, Guangdong, P.R. China		
製造者/輸入者: <i>Manufacturer/ Importer:</i>	Dongguan Liliang Electronics Co., LTD Floor 3, Building A, Wanjia Technology Park, No. 88, Yayuan Industry Road, Nancheng District, Dongguan City, Guangdong, P.R. China		
試験品: <i>Test item:</i>	Rechargeable Li-ion battery		
識別表示: <i>Identification:</i>	N-901-1	製造番号: <i>Serial No.:</i>	Engineering sample
申請受理番号: <i>Receipt No.:</i>	174052635	申請受理日: <i>Date of receipt:</i>	2016-07-01
試験場所: <i>Testing location:</i>	TÜV Rheinland (Guangdong) Ltd. No.199 Kezhu Road, Guangzhou Science City 510663 Guangzhou, CHINA		
適用した試験基準: <i>Test specification:</i>	電気用品の技術上の基準を定める省令の解釈(H26.04.14), 別表第九: Interpretation for METI Ordinance of Technical Req. (H26.04.14), Appendix 9:		
試験所: <i>Testing Laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd. East of F/1, F/2~F/4, Building 1, Cybio Technology Building No. 6 Langshan No.2 Road, North Hi-tech Industry Park 518057 Shenzhen Nanshan District CHINA		
試験結果: <i>Test result:</i>	上記試験品は、適合した。 <i>The a. m. test item passed.</i>		
試験者: <i>tested by:</i>	照査者: <i>checked by:</i>		
2016-08-26 Barry He 	2016-08-26 Susan Zheng 		
日付 <i>Date</i>	氏名 <i>Name</i>	署名 <i>Signature</i>	日付 <i>Date</i>
備考/Other Aspects:			
電気用品安全法 – 特定電気用品以外の電気用品 – リチウムイオン蓄電池 Electrical Appliance and Material Safety Law – Other electrical appliances and materials – Li-Ion secondary batteries			
略語: OK, Pass or P F or Fail N/A or N	= 適合 = 不適合 = 該当せず	Abbreviations: OK, Pass or P F or Fail N/A or N	= passed = failed = not applicable
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**Test item description .....**: Rechargeable Li-ion battery  
**Model/Type reference .....**: N-901-1  
**Manufacturer/Importer Name or Trade Mark .....**: Dongguan Liliang Electronics Co., LTD  
Floor 3, Building A, Wanjia Technology Park, No. 88, Yayuan Industry Road, Nancheng District, Dongguan City, Guangdong, P.R. China  
**Factory.....**: Dongguan Liliang Electronics Co., LTD  
Floor 3, Building A, Wanjia Technology Park, No. 88, Yayuan Industry Road, Nancheng District, Dongguan City, Guangdong, P.R. China  
**Seller Name of Trade mark.....**: N/A  
**Ratings .....**: 14.4V, 4400mAh, 63.36Wh

### Copy of marking plate

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



**Possible test case verdicts:**

- test case does not apply to the test object.....: N/A
- test object does meet the requirement .....: P (Pass)
- test object does not meet the requirement .....: F (Fail)

**Testing .....**

Date of receipt of test item .....: 2016-07-01

Date (s) of performance of tests .....: 2016-07-01 to 2016-08-08

**General remarks:**

The test results presented in this report relate only to the object tested.  
This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.  
The completed test report includes the **Attachment 1: Photo documentation (4 pages)**.  
Throughout this report a point is used as the decimal separator.

**General product information:**

This is a Japan circle PSE project, the battery is tested to comply with the specific requirements as written on first page throughout this report.

The main features of the battery pack are shown as below:

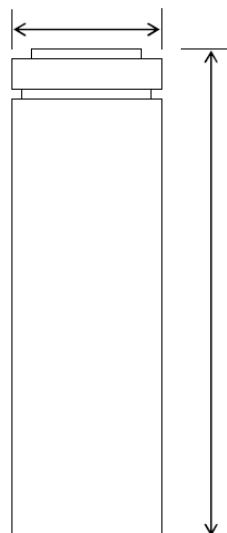
Model	Nominal capacity	Nominal voltage	Nominal Charge Current	Nominal Discharge Current	Maximum Charge Current	Maximum Discharge Current	Maximum Charge Voltage	Cut-off Voltage
N-901-1	4400mAh	14.4V	880mA	880mA	3080mA	15400mA	16.8V	12.0V

The main features of the cell in the battery pack are shown as below:

Model	Nominal capacity	Nominal voltage	Nominal Charge Current	Nominal Discharge Current	Maximum Charge Current	Maximum Discharge Current	Maximum Charge Voltage	Cut-off Voltage
ICR18650-22P	2200mAh	3.6V	440mA	440mA	2200mA	10000mA	4.25V	2.75V

**Construction:**

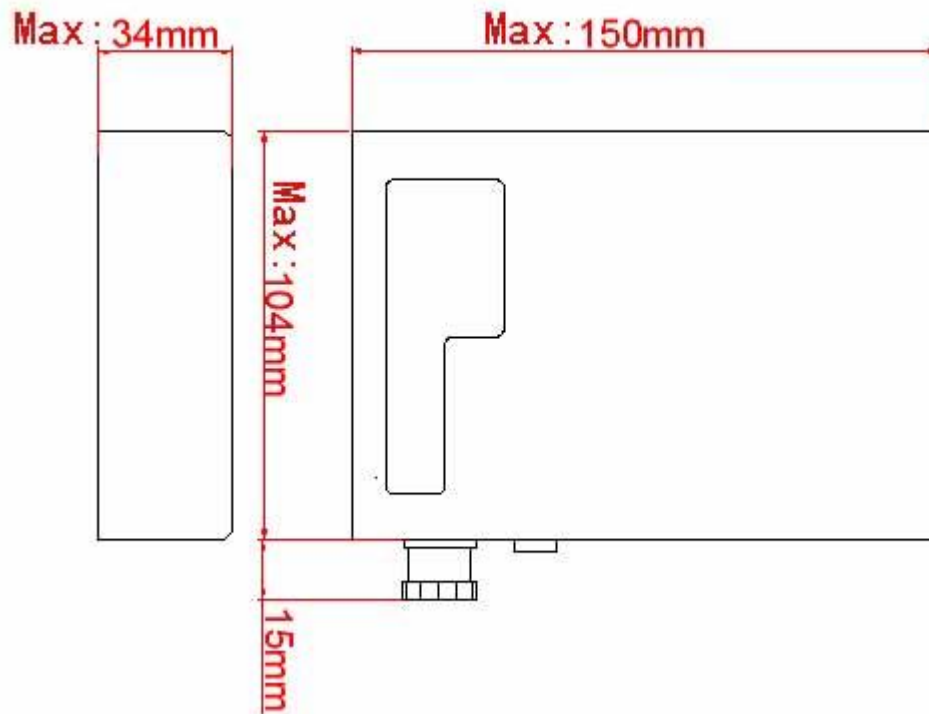
Max. 18.40



Max. 65.0

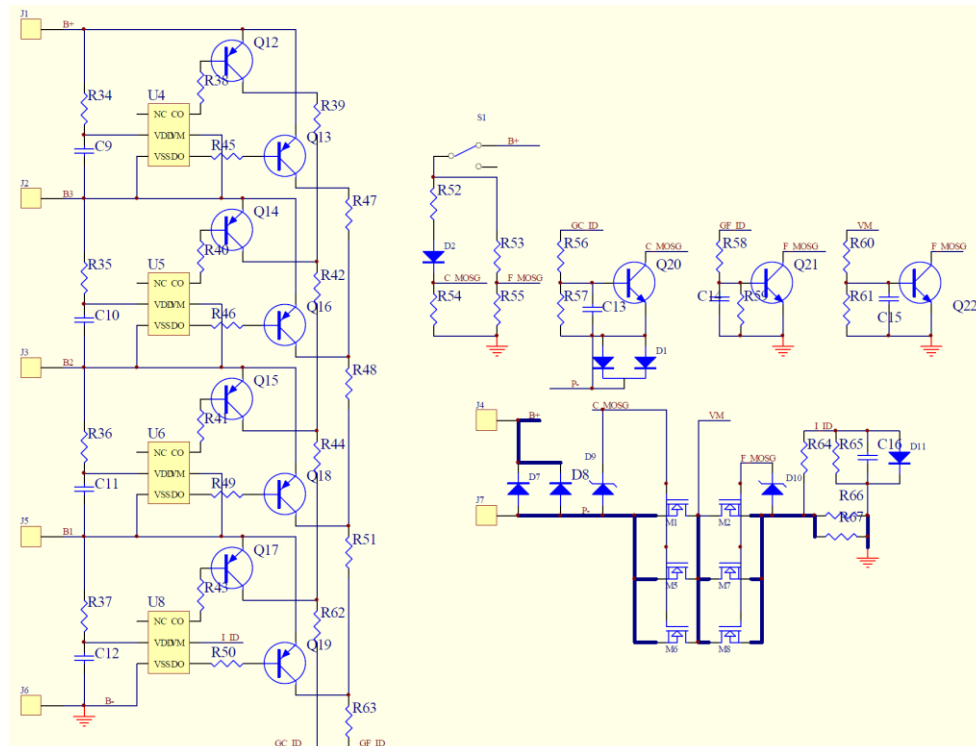
Unit : mm

Cell



Battery pack (Unit: mm)

Circuit diagram:



**Summary of Testing:**

The battery were evaluated and tested according to Interpretation for METI Ordinance of Technical Req. (H26.04.14), Appendix 9.

Clause	Requirement - Test	Result - Remark	Verdict
<b>1.</b>	<b>Basic Design</b>		<b>P</b>
<b>1.(1)</b>	<b>Insulation and Wiring</b>		<b>P</b>
	a) Insulation Resistance between an accessible metal case (excluding electrical contacts) and positive terminals $\geq 5M\Omega$ .	No other metal parts which do not connected to electrodes.	N/A
	b) Internal wiring and insulation are sufficient to withstand maximum anticipated current, voltage and temperature requirements	See tests of clause 2 and clause 3.	P
	c) Orientation of wiring maintains adequate creepage and clearance distances between conductors. Mechanical integrity of internal connections are sufficient to accommodate conditions of reasonably foreseeable misuse.	See tests of clause 2 and clause 3.	P
<b>1.(2)</b>	<b>Inner Pressure Reduction Mechanism</b>		<b>P</b>
	a) Battery cases and cells incorporate a pressure relief mechanism or are constructed so that they relieve excessive internal pressure at a value and rate that will preclude rupture, explosion and self-ignition.	Explosion-proof safety valve for venting exists.	P
	b) Encapsulant used to support cells within an outer casing does not cause the battery to overheat during normal operation no inhibit pressure relief.		N/A
<b>1.(3)</b>	<b>Temperature and current management</b>		<b>P</b>
	The batteries are designed such that abnormal temperature rise conditions are prevented.	Overcharge, over-discharge, over current and short-circuit proof circuit used in this battery. See tests of clause 3.	P
	Means is provided to limit current to safe levels during charge and discharge.	Overcharge, over-discharge, over current and short-circuit proof circuit used in this battery. See tests of clause 3.	P
<b>1.(4)</b>	<b>Terminal contacts</b>		<b>P</b>
	a) Terminals have a clear polarity marking on the external surface of the battery or be designed with no fear of misconnection.	Special connector used.	P
	b) The size and shape of the terminal contacts ensure that they can carry the maximum anticipated current.	Complied.	P
	c) External terminal contact surfaces are formed from conductive materials with good mechanical strength and corrosion resistance.		P
	Terminal contacts are arranged to minimize the risk of short circuits.		P
<b>1.(5)</b>	<b>Assembly of cells into batteries</b>		<b>P</b>

Clause	Requirement - Test	Result - Remark	Verdict
	Cells used in the battery assembly have closely matched capacities, are of the same design, and are of the same chemistry and same manufacturer.		P
	The battery incorporates separate circuitry to prevent cell reversal from uneven charges as the pack is designed for the selective discharge of a portion of its series connected cells.		N/A
<b>2.</b>	<b>Intended Use</b>		P
<b>2.(1)</b>	<b>Continuous Low Rate Charge</b>		P
	Fully charged cells are subjected for 28 days to a charge as specified by the manufacturer.	Arrange the test as required.	P
	Ambient temperature when testing	45°C	P
	Results: no fire, no explosion, no leakage	No fire, no explosion, no leakage.	P
<b>2.(2)</b>	<b>Vibration</b>		P
	The measured open circuit voltage of the fully charged cells or batteries is within anticipated parameters	See test below.	P
	The cells or batteries are subjected to a vibration sequence with amplitude of 0.76 mm and a total maximum excursion of 1.52 mm. The frequency was varied at the rate of 1 Hz/min between the limits of 10 Hz and 55 Hz. The entire range of frequencies (10 Hz to 55 Hz) and return (55 Hz to 10 Hz) was traversed in 90 min $\pm$ 5 min for each mounting position.	Arrange the test as required.	P
	The vibration was applied in each of three mutually perpendicular directions.	Arrange the test as required.	P
	Results: no fire, no explosion, no leakage	No fire, no explosion, no leakage.	P
<b>2.(3)</b>	<b>Battery enclosure test at high ambient temperature</b>		P
	Fully charged batteries were placed in an air-circulating oven at a temperature of 70°C $\pm$ 2°C for 7 hours. Afterwards, they are removed and allowed to return to room temperature.	70°C, 7 hours.	P
	Results: no physical distortion of the battery casing resulting in exposure if internal components.	No exposure.	P
<b>2.(4)</b>	<b>Temperature cycling</b>		P
	Fully charged cells or batteries were subjected to temperature cycling (+75°C, +20°C, -20°C, +20°C) in forced draught chambers according to the procedure.	Arrange the test as required.	P
	After the fifth cycle, the cells or batteries were stored at 20 $\pm$ 5°C for 7 days prior to examination.	Arrange the test as required.	P
	Results: No fire, no explosion, no leakage	No fire, no explosion, no leakage.	P

Clause	Requirement - Test	Result - Remark	Verdict
<b>3</b>	<b>Reasonably foreseeable misuse</b>		<b>P</b>
<b>3.(1)</b>	<b>External short circuit</b>		<b>P</b>
	a) Fully charged cells were subjected to a short circuit test at $55^{\circ}\text{C} \pm 5^{\circ}\text{C}$ .	Arrange the test as required. Each 5pcs cells charged at ambient temperature $45^{\circ}\text{C}$ and $-5^{\circ}\text{C}$ respectively prepared for the test.	<b>P</b>
	The external resistance did not exceed $80 \pm 20 \text{ m}\Omega$ .	Total external resistance: $80 \pm 20 \text{ m}\Omega$ .	<b>P</b>
	The cells were tested for 24 h or until the case temperature declined by 20% of the maximum temperature rise.	Tested until the case temperature declined by 20% of the maximum temperature rise.	<b>P</b>
	b) Fully charged batteries were subjected to a short circuit test at $20^{\circ}\text{C} \pm 5^{\circ}\text{C}$ .	Arrange the test as required on batteries equipped with three sources of cells respectively. Each 5pcs batteries charged at ambient temperature $45^{\circ}\text{C}$ and $-5^{\circ}\text{C}$ respectively prepared for the test.	<b>P</b>
	The external resistance did not exceed $80 \pm 20 \text{ m}\Omega$ .	Total external resistance: $80 \pm 20 \text{ m}\Omega$ .	<b>P</b>
	The batteries were tested for 24 h or until the case temperature declined by 20% of the maximum temperature rise.	Tested for 24 hours.	<b>P</b>
	If battery incorporates protective device or protective circuit and the current has stopped, then for one hour after the current stopped.		<b>P</b>
	Results: no fire, no explosion.		<b>P</b>
<b>3.(2)</b>	<b>Free fall</b>		<b>P</b>
	Fully charged cells or batteries were dropped 3 times from a height of 1.0 m onto a concrete floor.	Arrange the test as required.	<b>P</b>
	Provided that this does not apply to charged batteries weighting more than 7 kg.		<b>P</b>
	Results: no fire, no explosion	No fire, no explosion.	<b>P</b>
<b>3.(3)</b>	<b>Mechanical shock (crash hazard)</b>		<b>P</b>
	a) Fully charged cells or batteries were subjected to a total of three shocks of equal magnitude applied in each of three mutually perpendicular directions.	Arrange the test as required.	<b>P</b>
	b) During the initial 3 milliseconds, the minimum average acceleration was $735 \text{ m/s}^2$ . The peak acceleration was between $1228 \text{ m/s}^2$ and $1716 \text{ m/s}^2$ .		<b>P</b>
	Results: no fire, no explosion, no leakage	No explosion, no leakage.	<b>P</b>
<b>3.(4)</b>	<b>Thermal abuse</b>		<b>P</b>

Clause	Requirement - Test	Result - Remark	Verdict
	Fully charged cells were placed in a gravity or circulating air-convection oven. The oven temperature was raised at a rate of $5^{\circ}\text{C}/\text{min} \pm 2^{\circ}\text{C}/\text{min}$ to a temperature of $130^{\circ}\text{C} \pm 2^{\circ}\text{C}$ . The cell remained at that temperature for 10 minutes before the test was discontinued.	Arrange the test as required on all sources of cells.  Each 5pcs cells charged at ambient temperature $45^{\circ}\text{C}$ and $-5^{\circ}\text{C}$ respectively prepared for the test.	P
	Results: no fire, no explosion	No fire, no explosion.	P
<b>3.(5)</b>	<b>Crushing of cells</b>		P
	a) Fully charged cells were crushed between two flat surfaces with a hydraulic ram exerting a force of $13 \text{ kN} \pm 1 \text{ kN}$ .	Arrange the test as required on all sources of cells.  Each 5pcs cells charged at ambient temperature $45^{\circ}\text{C}$ and $-5^{\circ}\text{C}$ respectively prepared for the test.	P
	b) The force was released when		P
	(1) the maximum forces applied		P
	(2) an abrupt voltage drop of one-third of the original voltage has been obtained		N/A
	(3) There was 10% deformation of battery height		N/A
	c) A cylindrical or prismatic cell was crushed with its longitudinal axis parallel to the flat surfaces of the crushing apparatus.	Cylindrical cell.	P
	A second set of prismatic cells was tested, rotated 90 degrees around their longitudinal axis compared to the first set.		P
	Ambient temperature when testing	Ambient temperature $45^{\circ}\text{C}$ and $-5^{\circ}\text{C}$ respectively.	P
	Results: no fire, no explosion.	No fire, no explosion.	P
<b>3.(6)</b>	<b>Low pressure</b>		P
	Fully charged cells are placed in a vacuum chamber whose internal pressure was gradually reduced to a pressure equal to or less than 11.6 kPa and held at that value for 6 hours.	Arrange the test as required on all sources of cells.	P
	Results: no fire, no explosion, no leakage	No fire, no explosion, no leakage.	P
<b>3.(7)</b>	<b>Overcharge</b>		P
	A discharged cell was charged from a power supply of $\geq 10 \text{ V}$ , at a charging current $I_{\text{rec}}$ recommended by the manufacturer for $2.5 C_5/I_{\text{rec}}$ hours or until it reach the test voltage.	Arrange the test as required on all sources of cells.  Each 5pcs cells overcharged at ambient temperature $45^{\circ}\text{C}$ and $-5^{\circ}\text{C}$ respectively during the test.	P
	Ambient temperature when testing	Ambient temperature $45^{\circ}\text{C}$ and $-5^{\circ}\text{C}$ respectively.	P
	Results: no fire, no explosion.	No fire, no explosion.	P
<b>3.(8)</b>	<b>Forced discharge</b>		P



Clause	Requirement - Test	Result - Remark	Verdict
	Discharged cells intended for use in multi-cell applications, were subjected to a reverse charge at 1.0 I <sub>t</sub> (A) for 90 minutes.	Arrange the test as required on all sources of cells. Each 5pcs cells forced discharged at ambient temperature 45°C and -5°C respectively during the test.	P
	Ambient temperature when testing	Ambient temperature 45°C and -5°C respectively.	P
	Results: no fire, no explosion	No fire, no explosion.	P
<b>3.(9)</b>	<b>Cell protection against a high charging rate</b>		P
	Discharged cells were charged at three times the charging current recommended by the manufacturer until	Arrange the test as required on all sources of cells. Each 5pcs cells high charged at ambient temperature 45°C and -5°C respectively during the test.	P
	the cells was fully charged, or		P
	A protective devices in the equipment or battery cut off the charge current before the cell became fully charged.	No protective device exists.	N/A
	Ambient temperature when testing	Ambient temperature 45°C and -5°C respectively.	P
	Results: no fire, no explosion	No fire, no explosion.	P
<b>3.(10)</b>	<b>Forced internal short circuit of cells</b>		P
	Pressed the winding core of charged cell (except when electrolyte is not liquid) by pressing jig under condition that nickel peace was inserted.	Arrange the test as required on all sources of cells. Each 5pcs cells charged at ambient temperature 45°C and -5°C respectively prepared for the test.	P
	Inserted between the positive active material and negative active material	Arrange the test as required.	P
	Inserted between the uncoated current collector of positive electrode and the active material coated negative active electrode	Arrange the test as required.	P
	Test was stopped when voltage drop of over 50 mV was obtained, or	Arrange the test as required.	P
	Stopped when the pressure reached 800 N (for prismatic cells, 400N).	800N for cylindrical cells.	P
	Ambient temperature when testing	Ambient temperature 45°C and -5°C respectively.	P
	Number of test sample	Each 5pcs cells charged at ambient temperature 45°C and -5°C respectively prepared for the test.	P
	Results: no fire, no explosion	No fire, no explosion.	P

Clause	Requirement - Test	Result - Remark	Verdict
<b>3.(11)</b>	<b>Function of the overvoltage protection of batteries</b>		P
	The cell block in the battery shall not exceed the upper limited charging voltage at $20 \pm 5^{\circ}\text{C}$ ambient temperature.		N/A
	a) For batteries made of a one cell block, the voltage applied to the cell block during charging shall be measured		N/A
	b) For batteries consisting of a series of two pieces or more of cell blocks, it shall be charged while measuring the voltage of each cell block and at the same time, one cell block shall forcibly be discharged and the voltages of the other cell blocks shall gradually be measured		N/A
	c) For batteries consisting of a series of connection of two pieces or more of cell blocks, a voltage exceeding the upper limited charging voltage specified in Annex Table 1-2 shall be applied to the cell block while measuring the voltage of each cell block. When the charging stops, the voltage shall be measured	Arrange the test as required on all sources of cells. The max. voltage measured are not exceed the limit.	P
<b>3.(12)</b>	<b>Free fall of appliance</b>		N/A
	The charged battery shall be installed to be used, and shall be dropped once a concrete floor or iron plate in a direction considered to most likely affect the battery in a negative manner.		N/A
	An equivalent load shall be applied to the battery		N/A
	Kind of equipment		N/A
	Weight of appliance		N/A
	Applicable standard		N/A
	Height in drop testing		N/A
	Results: no short-circuiting		N/A
<b>4</b>	<b>Labeling</b>		P
	Labeling for batteries shall be provided as below on surface where it can easily be seen but not easily faded.	The label of battery meets the requirements.	P
	Rated voltage	See copy of the marking plate	P
	Rated capacity	See copy of the marking plate	P

2.1 – 2.5	TABLE: List of Critical Components					P
Object/part No.	Manufacturer/ trademark	Type/Model	Technical Data	Standard	Marks of Conformity	
Cell	Dongguan Liliang Electronics Co., LTD	ICR18650-22P	3.6V, 2200mAh	--	Tested with appliance	
-Positive electrode	CHANGYUAN LIKE	LC204	LiCoO <sub>2</sub> , PVDF NMP, Conductive Additive, Aluminum Foil	--	--	
-Negative electrode	Shanghai Shanshan Tech Co., LTD	FSN-1	Graphite, CMC, SBR, H <sub>2</sub> O, Conductive Additive, Copper Foil	--	--	
-Electrolyte	Dongguan Shanshan Battery Material Co., LTD	LD-134BJ	LiPF <sub>6</sub> +EMC+E C+DMC	--	--	
-Separator	W-scope	PE	Shutdown temperature: 130°C	--	--	
Plastic frame	SABIC JAPAN L L C	EXCY0314 (rc5)	V-1, 60°C	UL 94	UL E207780	
PCB	Interchangeable	Interchangeable	V-0, 90°C	UL 796	UL approved	
Protective IC (U4, U5, U6, U8)	SII	S8261	V <sub>CU</sub> =4.28±0.03 V, V <sub>DL</sub> =3.0±0.080 V	--	Tested with appliance	
MOSFET (M1, M2, M5, M6, M7, M8)	MT	IRLR8726	V <sub>DS</sub> =30V, V <sub>GS</sub> =±20V	--	Tested with appliance	
Thermal Protector (S1)	NANJING HAICHUAN ELECTRONIC CO LTD	TB02-BB8D	70°C	--	UL E477730	
Heat-shrinkable	SHENZHEN WOLIDA TRADING CO LTD	RSFR-H	125°C	UL 224	UL E329530	
Lead wire (Charge)	DONGGUAN CITY JIN ZAO LI ELECTRONIC TECHNOLOGY CO LTD	1007	20AWG, 80°C, 300V	UL 758	UL E348531	
DC connector (Charge)	Interchangeable	Interchangeable	V-0, 90°C	--	--	

Lead wire (Discharge)	DONG GUAN SHENG PAI ELECTRIC WIRE & CABLE CO LTD	3135	16 AWG, 200°C, 600V	UL 758	UL E347603
DC connector (Discharge)	Interchangeable	Interchangeable	V-0, 90°C	--	--
Insulation Paper	E I DUPONT DE NEMOURS & CO INC	101F(r9)	V-2, 130°C	UL 94 UL 746	UL E41938
Supplementary information:--					

TABLE: 2.(1) Continuous Low Rate Charge Test					P
Model (cell)	Recommended Charging Method, CC, CV, or CC/CV	Recommended Charging Voltage V <sub>c</sub> , Vdc	Recommended Charging Current I <sub>rec</sub> , mA	OCV at Start of Test, Vdc	Results
#1	CC/CV	4.25	440	4.23	P
#2	CC/CV	4.25	440	4.24	P
#3	CC/CV	4.25	440	4.23	P
#4	CC/CV	4.25	440	4.23	P
#5	CC/CV	4.25	440	4.22	P
supplementary information:					
- No Fire or Explosion - No Leakage					

TABLE: 2.(2) – Vibration Test (Cell)			P
Model	OCV at Start of Test, Vdc	Results	
#1	4.23	P	
#2	4.24	P	
#3	4.23	P	
#4	4.23	P	
#5	4.22	P	
supplementary information:			
- No Fire or Explosion - No Leakage			

TABLE: 2.(2) – Vibration Test (Battery)			P
Model	OCV at Start of Test, Vdc	Results	
#1	16.77	P	
#2	16.76	P	
#3	16.76	P	
#4	16.78	P	

#5	16.77	P
supplementary information: - No Fire or Explosion - No Leakage		

TABLE: 3.(1) – External Short Circuit Test (Cell)						P
Model	Charge Temperature High (At 45°C)	Test Temperature (At 55°C ± 5°C)	OCV at start of test, Vdc	Resistance of Circuit, mΩ	Maximum Case Temperature Rise $\Delta T_r$ , °C	Results
#1	45	54.7	4.24	78	117.1	P
#2	45	54.6	4.25	76	117.8	P
#3	45	54.7	4.24	77	119.4	P
#4	45	54.7	4.24	76	118.9	P
#5	45	54.6	4.24	78	120.9	P
	Charge Temperature Low (-5°C)	Test Temperature (At 55°C ± 5°C)				
#6	-5	54.6	4.19	78	116.4	P
#7	-5	54.7	4.19	77	115.7	P
#8	-5	54.8	4.20	79	110.9	P
#9	-5	54.7	4.18	76	116.0	P
#10	-5	54.7	4.19	78	117.5	P
supplementary information: - No Fire or Explosion - No Leakage						

TABLE: 3.(1) – External Short Circuit Test (Battery)						P
Model	Charge Temperature High (At 45°C)	Test Temperature (At 20°C ± 5°C)	OCV at start of test, Vdc	Resistance of Circuit, mΩ	Maximum Case Temperature Rise $\Delta T_r$ , °C	Results
Battery #1	45	24.9	16.78	85	25.0	P
Battery #2	45	25.0	16.78	86	25.1	P
Battery #3	45	24.8	16.77	85	24.9	P
Battery #4	45	25.0	16.78	84	25.1	P
Battery #5	45	24.9	16.76	82	25.0	P
	Charge Temperature Low (-5°C)	Test Temperature (At 20°C ± 5°C)				
Battery #6	-5	24.9	16.74	85	25.0	P

Battery #7	-5	24.8	16.73	86	24.9	P
Battery #8	-5	24.9	16.74	85	25.0	P
Battery #9	-5	24.9	16.74	86	25.0	P
Battery #10	-5	24.8	16.73	86	24.9	P
supplementary information:						
- No Fire or Explosion - No Leakage						

TABLE: 3.(7) – Overcharge Tests						P
Model	OCV at start of test, Vdc	Maximum Charging Current, mA	Maximum Charging Voltage, Vdc	Total Time of Charging, h	Results	
#1	3.30	2200	10.0	2.5	P	
#2	3.31	2200	10.0	2.5	P	
#3	3.30	2200	10.0	2.5	P	
#4	3.32	2200	10.0	2.5	P	
#5	3.31	2200	10.0	2.5	P	
#6	3.32	2200	10.0	2.5	P	
#7	3.29	2200	10.0	2.5	P	
#8	3.33	2200	10.0	2.5	P	
#1	3.32	2200	10.0	2.5	P	
#2	3.31	2200	10.0	2.5	P	
supplementary information:						
- No Fire or Explosion - No Leakage						

TABLE: 3.(8) – Forced Discharge Test					P
Model	OCV before application of reverse charge, Vdc	Measured Reverse Charge It, mA	Total Time for Reversed Charge Application, Min	Results	
#1	3.31	2200	90	P	
#2	3.32	2200	90	P	
#3	3.30	2200	90	P	
#4	3.31	2200	90	P	
#5	3.31	2200	90	P	
#6	3.30	2200	90	P	
#7	3.32	2200	90	P	
#8	3.31	2200	90	P	
#9	3.32	2200	90	P	
#10	3.30	2200	90	P	

supplementary information:

- No Fire or Explosion
- No Leakage

<b>TABLE: 3.(9) – Cell Protection Against a High Charging Rate Test (Lithium Systems)</b>				P
Model	OCV at start of test, Vdc	Maximum Charging Current, mA	Maximum Charging Voltage, Vdc	Results
#1	3.30	6600	4.25	P
#2	3.31	6600	4.25	P
#3	3.30	6600	4.25	P
#4	3.32	6600	4.25	P
#5	3.33	6600	4.25	P
#6	3.32	6600	4.25	P
#7	3.31	6600	4.25	P
#8	3.30	6600	4.25	P
#9	3.31	6600	4.25	P
#10	3.30	6600	4.25	P

supplementary information:

- No Fire or Explosion
- No Leakage

<b>TABLE: 3.(10) – Forced internal short circuit of cells</b>				P
Model	Dew Point (°C)	Maximum Pressure (N)	Voltage Drop ( $\Delta mV$ )	Results
#1	-25	800	1	P
#2	-25	800	1	P
#3	-25	800	1	P
#4	-25	800	1	P
#5	-25	800	1	P
#6	-25	800	1	P
#7	-25	800	1	P
#8	-25	800	1	P
#9	-25	800	1	P
#10	-25	800	1	P

supplementary information:

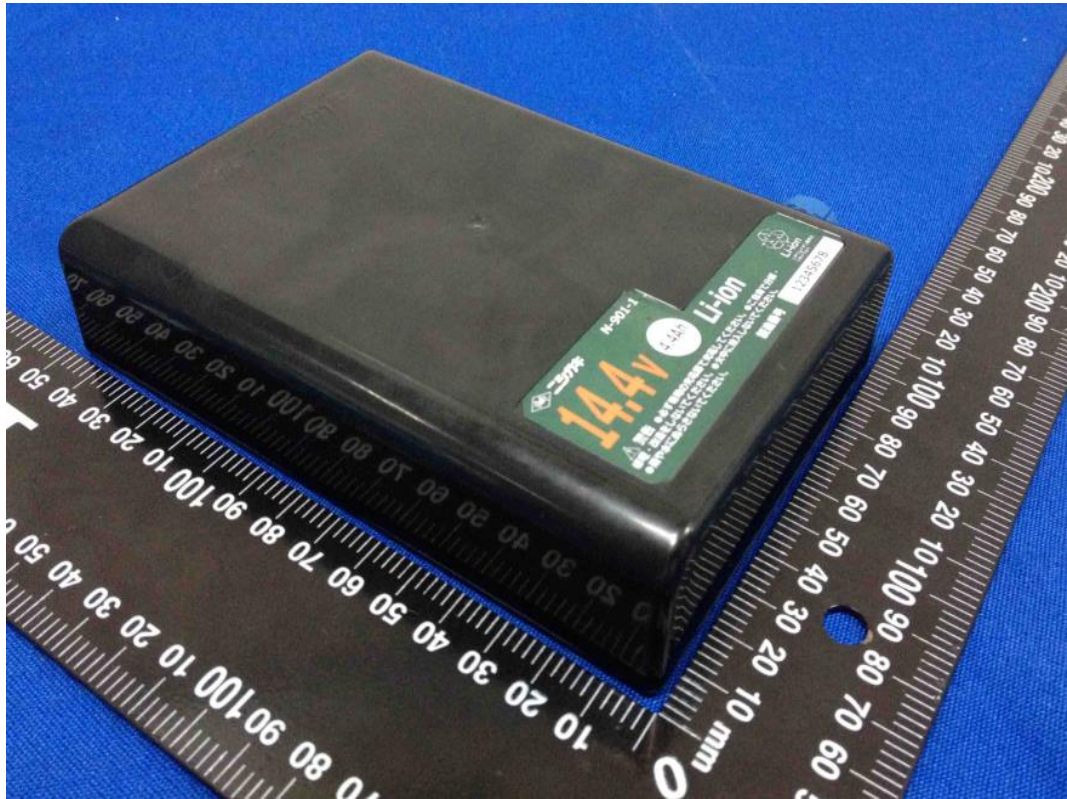
- No Fire or Explosion

--End of Report--

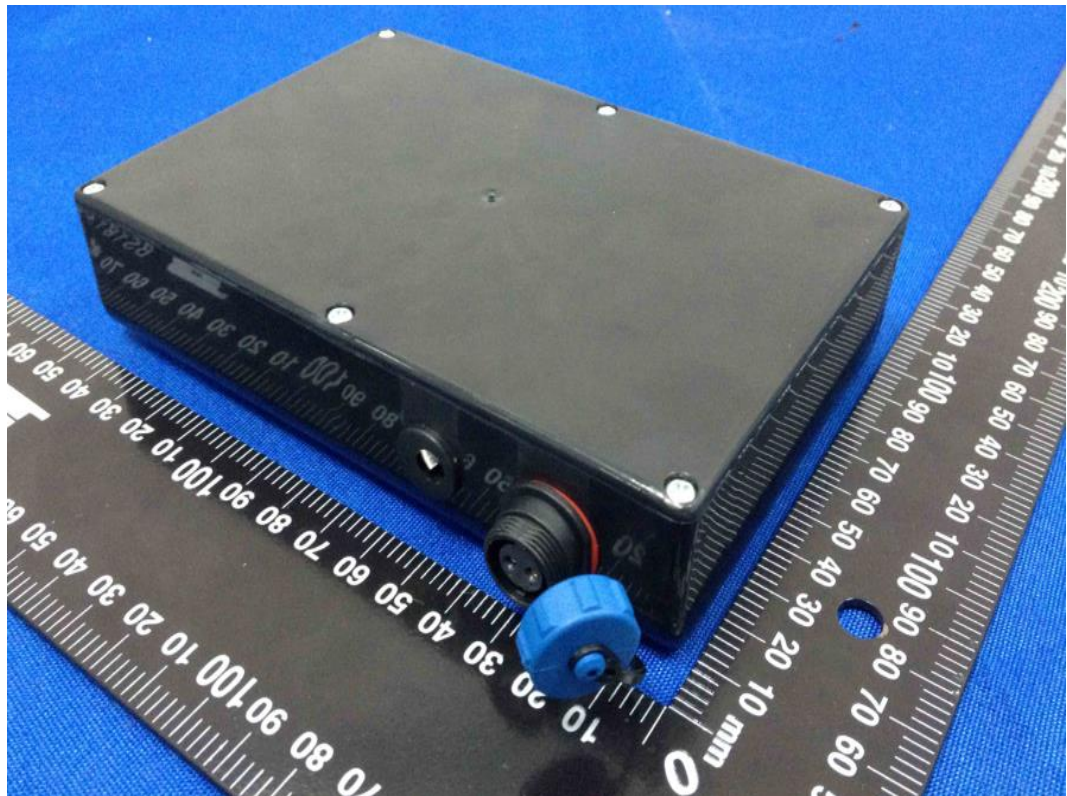


Product: Rechargeable Li-ion battery

Type Designation: N-901-1



Picture 1. Battery view-1

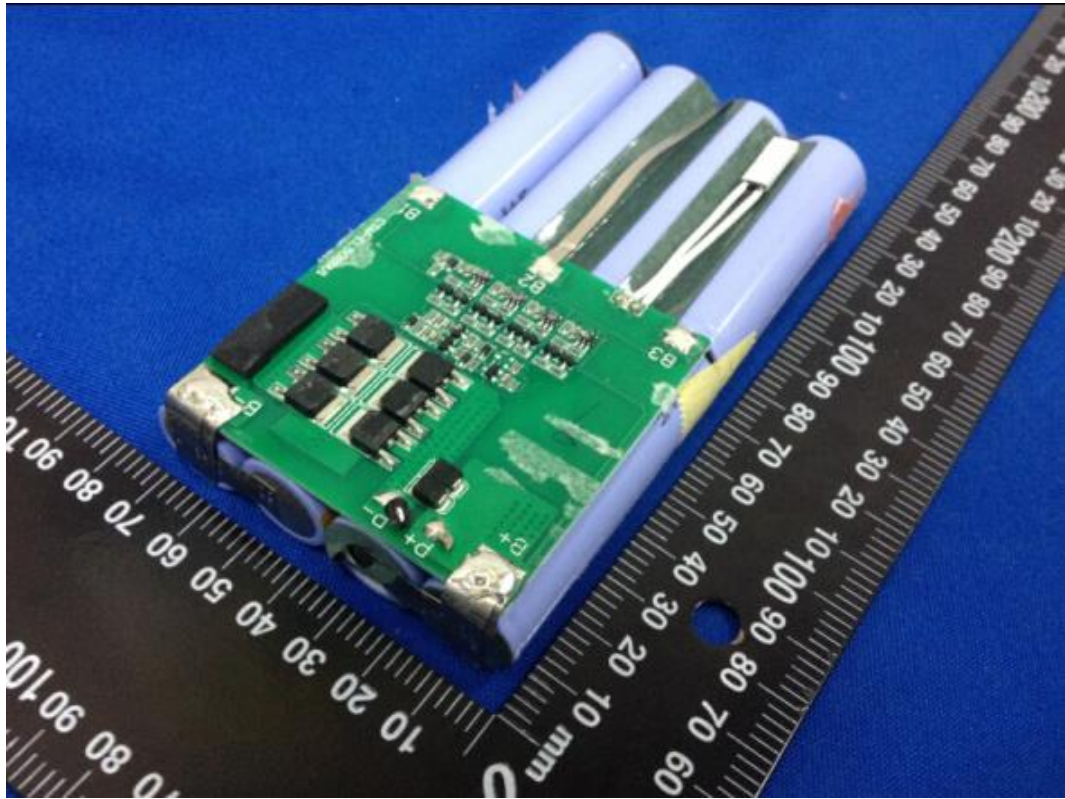


Picture 2. Battery view-2



Product: Rechargeable Li-ion battery

Type Designation: N-901-1



Picture 3. Battery view-3

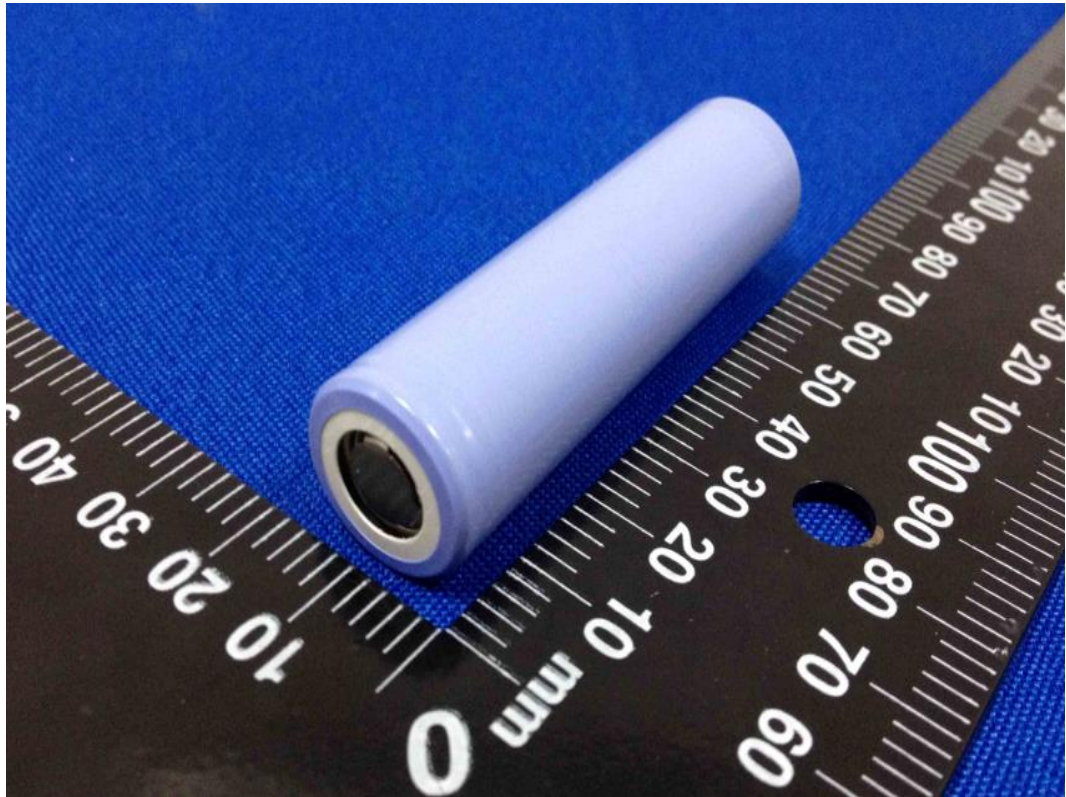


Picture 4. Battery view-4

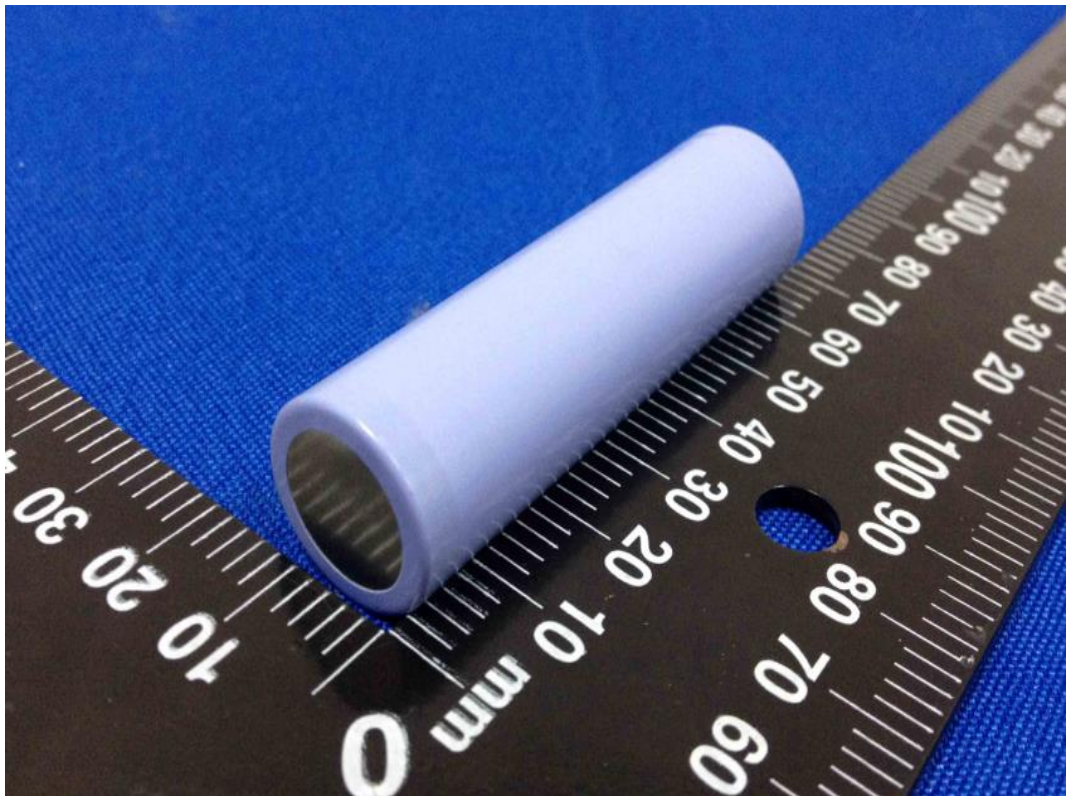


Product: Rechargeable Li-ion battery

Type Designation: N-901-1



Picture 5. Cell view-1

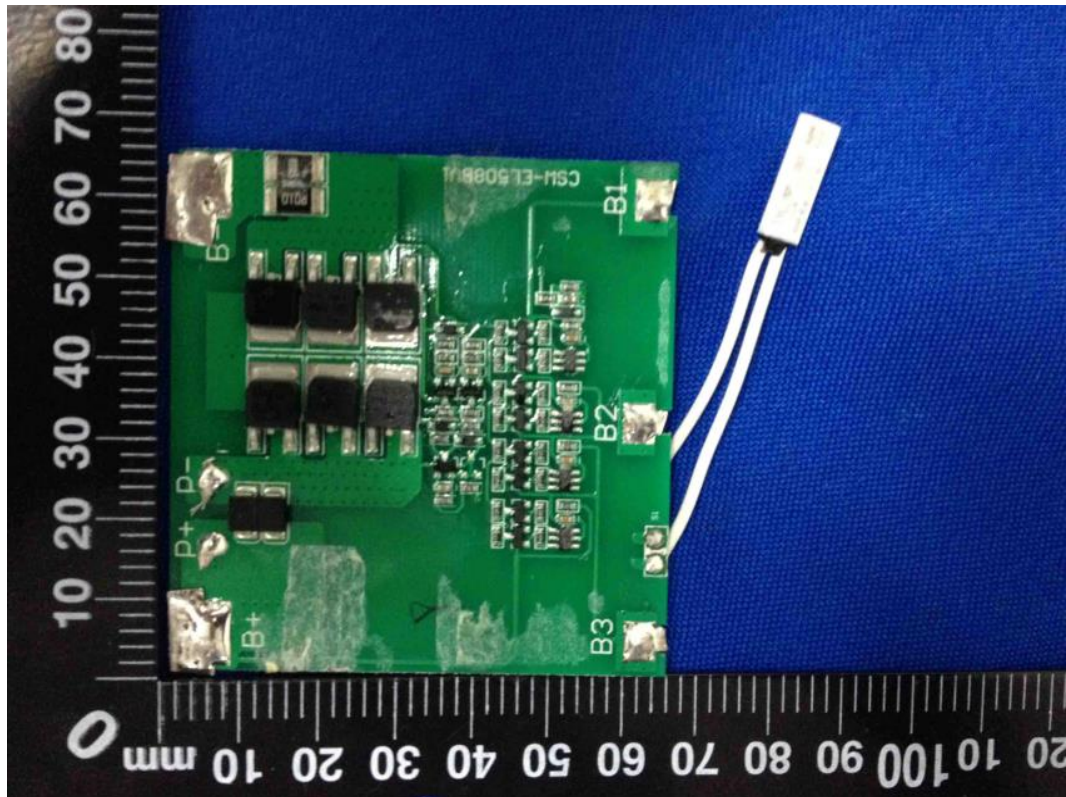


Picture 6. Cell view-2

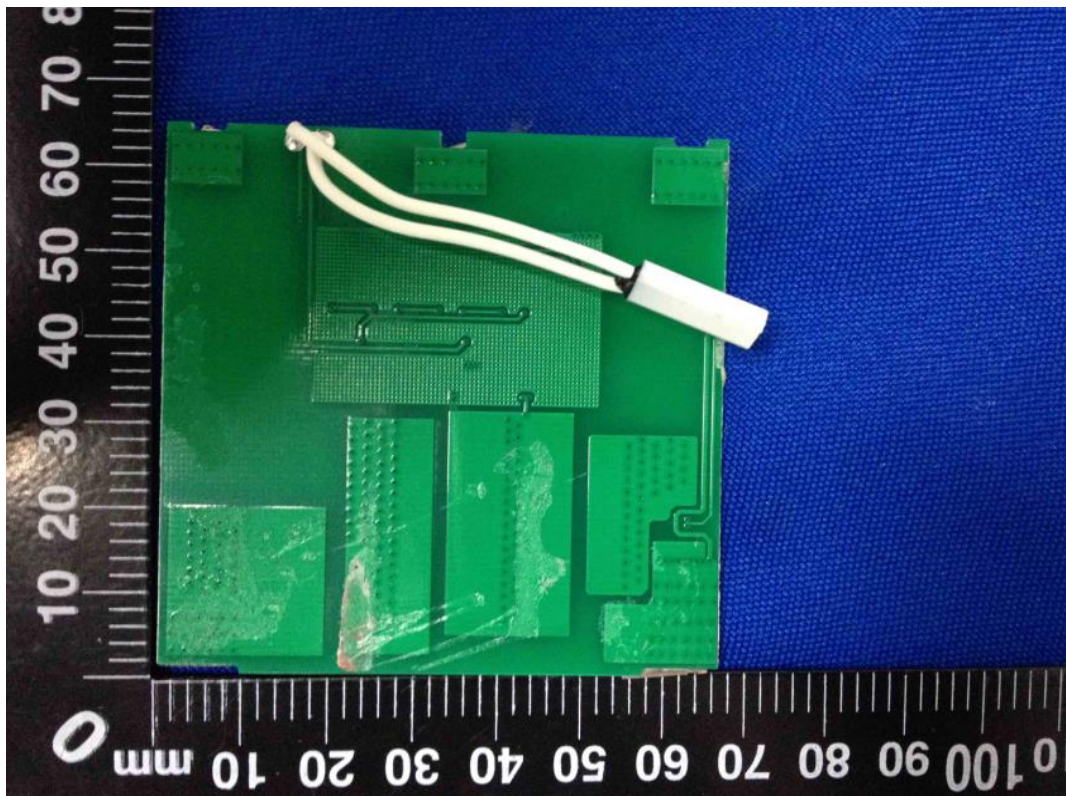


Product: Rechargeable Li-ion battery

Type Designation: N-901-1



Picture 7. Protection board view-1



Picture 8. Protection board view-2