

TEST REPORT PSE

Report Number : TCT180815B014

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Inspected by (name + signature) : Allen Qin

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Address : 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

Testing location : As above

Applicant's name : Shenzhen Max Technology Co., LTD

Address : F/3-4, Bldg.22, ChangXing High-Tech Park, Shajing, Bao'an District, Shenzhen, Guangdong, China

Manufacturer's name : Shenzhen Max Technology Co., LTD

Address : F/3-4, Bldg.22, ChangXing High-Tech Park, Shajing, Bao'an District, Shenzhen, Guangdong, China

Test specification :

Test specification: : Interpretation for METI Ordinance of Technical Req. (H26.04.14), Appendix 9:

Test procedure : Type approved

Test result : Pass

Non-standard test method : N/A

This test report is specially limited to the above client company and product model only, It may not be duplicated without prior written consent of Shenzhen TCT Testing Technology Co., Ltd.

Test item description : Rechargeable Li-ion Battery

Trade Mark : N/A

Model/type reference : 642540

Ratings : 3.7V, 650mAh, 2.405Wh

List of Attachments (including a total number of pages in each attachment):

Attachment 1: Critical components information (page 12)

Attachment 2: Photo documentation (page 17-20)

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 : 2018-08-15

Date (s) of performance of tests..... : 2018-08-18 to 2018-09-22

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.
Throughout this report a point is used as the decimal separator.

General descriptions:

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 cell in the battery pack are shown as below:

Model (Cell)	Nominal capacity	Nominal voltage	Nominal Charge Current	Nominal Discharge Current	Maximum Charge Current	Maximum Discharge Current	Maximum Charge Voltage	Cut-off Voltage
642540	650mAh	3.7V	130mA	130mA	650mA	650mA	4.23V	3.0V

Model (Cell)	Upper limit charge voltage	Taper-off current (0,05 It A)	Lower charge temperature	Upper charge temperature
642540	4.25V	32.5mA	10°C	45°C

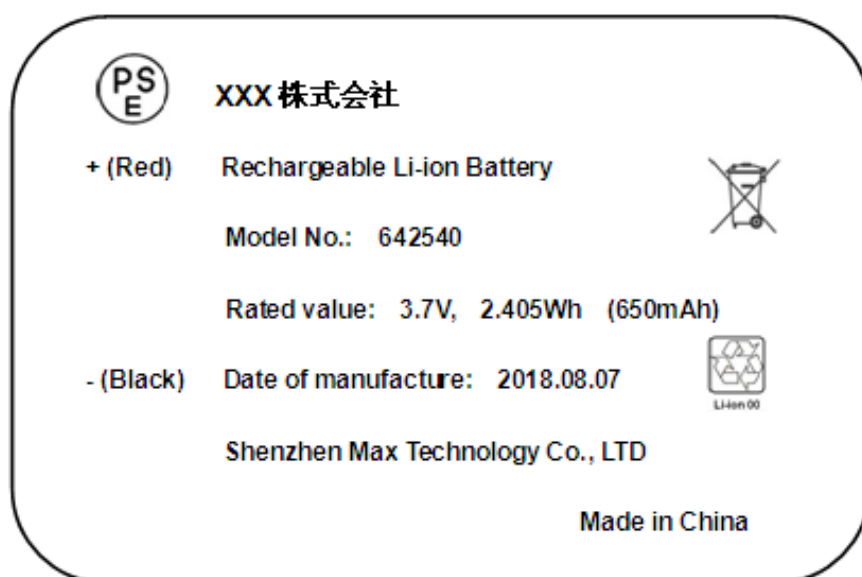
The main features of the battery pack are shown as below:

Model (Battery)	Nominal capacity	Nominal voltage	Nominal Charge Current	Nominal Discharge Current	Maximum Charge Current	Maximum Discharge Current	Maximum Charge Voltage	Cut-off Voltage
642540	650mAh	3.7V	130mA	130mA	650mA	650mA	4.23V	3.0V

Model (Battery)	Upper limit charge voltage	Taper-off current (0,05 It A)	Lower charge temperature	Upper charge temperature
642540	4.25V	32.5mA	10°C	45°C

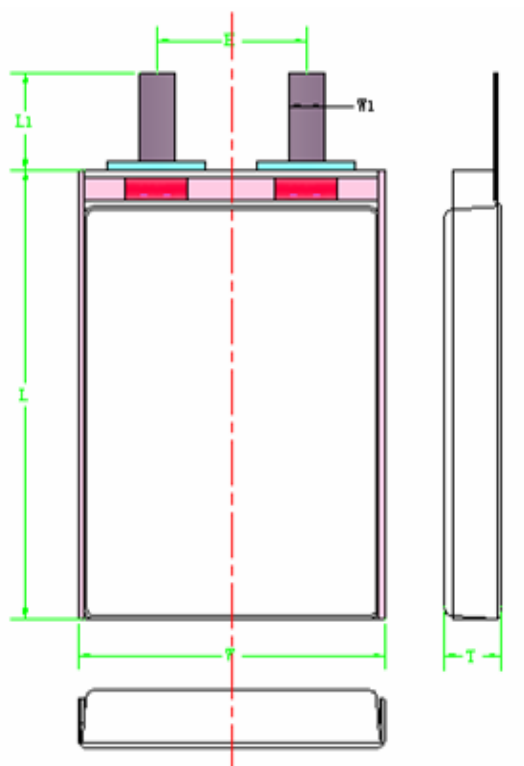
Copy of marking plate:

The artwork below may be only a draft



XXX 株式会社: Here represents the Japanese agent

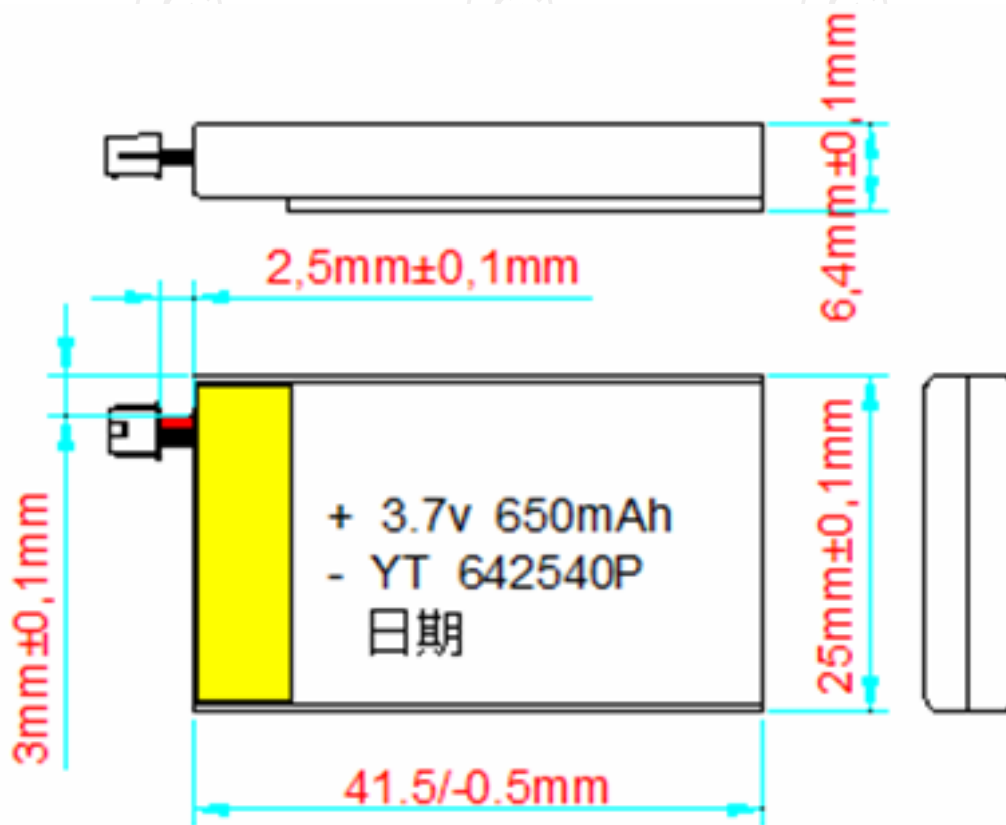
Construction (Unit: mm):



厚度 T	宽度 W	长度 L	L1	W1	E
<6.40	25.0±0.5	40.0±0.5	7.5±1.0	3.0	11.5±1.5
UNIT 单位: MM					

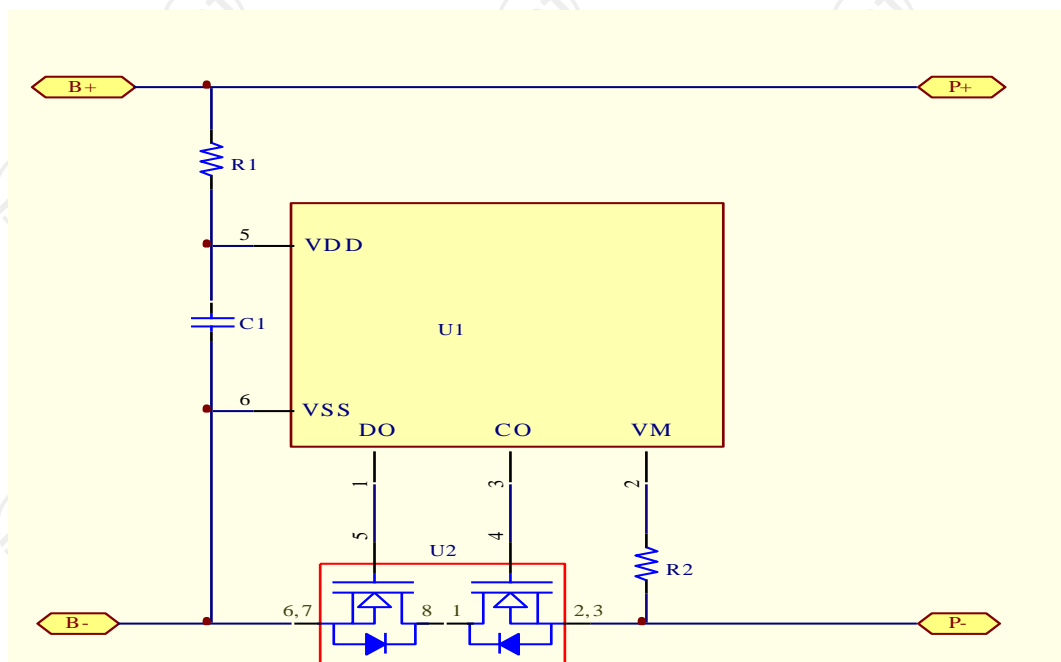
Cell (unit: mm)

Construction(Unit: mm):



Battery (Unit: mm)

Circuit diagram:



Clause	Requirement - Test	Result - Remark	Verdict
1.	Basic Design		P
1.(1)	Insulation and Wiring		P
	a) Insulation Resistance between an accessible metal case (excluding electrical contacts) and positive terminals $\geq 5 \text{ M}\Omega$.	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
1.(2)	Inner Pressure Reduction Mechanism		P
	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.	Venting mechanism exists on narrow side of the pouch cell.	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.		P
1.(3)	Temperature and current management		P
	The batteries are designed such that abnormal temperature rise conditions are prevented.		P
	Means is provided to limit current to safe levels during charge and discharge.		P
1.(4)	Terminal contacts		P
	a) Terminals have a clear polarity marking on the external surface of the battery or be designed with no fear of misconnection.	DC 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
1.(5)	Assembly of cells into batteries		P
	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

Clause	Requirement - Test	Result - Remark	Verdict
	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
2.	Intended Use		P
2.(1)	Continuous Low Rate Charge		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
2.(2)	Vibration		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
2.(3)	Battery enclosure test at high ambient temperature		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
2.(4)	Temperature cycling		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°C \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
3	Reasonably foreseeable misuse		P
3.(1)	External short circuit		P
	a) Fully charged cells were subjected to a short circuit test at $55\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$.	Arrange the test as required. Each 5pcs cells charged at ambient temperature $45\text{ }^{\circ}\text{C}$ and $10\text{ }^{\circ}\text{C}$ respectively prepared for the test.	P
	The external resistance did not exceed $80\text{ m}\Omega \pm 20\text{ m}\Omega$.	Total external resistance: $80\text{ m}\Omega \pm 20\text{ m}\Omega$.	P
	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.	P
	b) Fully charged batteries were subjected to a short circuit test at $20\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$.	Arrange the test as required. Each 5pcs batteries charged at ambient temperature $45\text{ }^{\circ}\text{C}$ and $10\text{ }^{\circ}\text{C}$ respectively prepared for the test.	P
	The external resistance did not exceed $80\text{ m}\Omega \pm 20\text{ m}\Omega$.	Total external resistance: $80\text{ m}\Omega \pm 20\text{ m}\Omega$.	P
	The batteries 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.	P
	If battery incorporates protective device or protective circuit and the current has stopped, then for one hour after the current stopped.		N/A
	Results: no fire, no explosion.		P
3.(2)	Free fall		P
	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.	P
	Provided that this does not apply to charged batteries weighting more than 7 kg.		P
	Results: no fire, no explosion	No fire, no explosion.	P
3.(3)	Mechanical shock (crash hazard)		P
	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.	P
	b) During the initial 3 milliseconds, the minimum average acceleration was 735 m/s^2 . The peak acceleration was between 1228 m/s^2 and 1716 m/s^2 .		P
	Results: no fire, no explosion, no leakage	No explosion, no leakage.	P

Clause	Requirement - Test	Result - Remark	Verdict
3.(4)	Thermal abuse		P
	Fully charged cells were placed in a gravity or circulating air-convection oven. The oven temperature was raised at a rate of 5 °C/min \pm 2 °C/min to a temperature of 130 °C \pm 2 °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 °C and 10 °C respectively prepared for the test.	P
	Results: no fire, no explosion	No fire, no explosion.	P
3.(5)	Crushing of cells		P
	a) Fully charged cells were crushed between two flat surfaces with a hydraulic ram exerting a force of 13 kN \pm 1 kN.	Arrange the test as required on all sources of cells. Each 5pcs cells charged at ambient temperature 45 °C and 10 °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.	Prismatic cells.	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 °C and 10 °C respectively.	P
	Results: no fire, no explosion.	No fire, no explosion.	P
3.(6)	Low pressure		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

Clause	Requirement - Test	Result - Remark	Verdict
3.(7)	Overcharge		P
	A discharged cell was charged from a power supply of ≥ 10 V, at a charging current I_{rec} recommended by the manufacturer for 2.5 C/ I_{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 °C and 10 °C respectively during the test.	P
	Ambient temperature when testing	Ambient temperature 45 °C and 10 °C respectively.	P
	Results: no fire, no explosion.	No fire, no explosion.	P
3.(8)	Forced discharge		P
	Discharged cells intended for use in multi-cell applications, were subjected to a reverse charge at 1.0 I_L (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 10 °C respectively during the test.	P
	Ambient temperature when testing	Ambient temperature 45 °C and 10 °C respectively.	P
	Results: no fire, no explosion	No fire, no explosion.	P
3.(9)	Cell protection against a high charging rate		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 10 °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 10 °C respectively.	P
	Results: no fire, no explosion	No fire, no explosion.	P

Clause	Requirement - Test	Result - Remark	Verdict
3.(10)	Forced internal short circuit of cells		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 10 °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		N/A
	Stopped when the pressure reached 800 N (for prismatic cells, 400 N).	400 N for prismatic cells.	P
	Ambient temperature when testing	Ambient temperature 45 °C and 10 °C respectively.	P
	Number of test sample	Each 5pcs cells charged at ambient temperature 45 °C and 10 °C respectively prepared for the test.	P
	Results: no fire, no explosion	No fire, no explosion.	P
3.(11)	Function of the overvoltage protection of batteries		P
	The cell block in the battery shall not exceed the upper limited charging voltage at 20 °C ± 5 °C ambient temperature.		P
	a) For batteries made of a one cell block, the voltage applied to the cell block during charging shall be measured	Arrange the test as required The max. voltage measured are not exceed the limit.	P
	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		N/A

Clause	Requirement - Test	Result - Remark	Verdict
3.(12)	Free fall of appliance		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

4	Labeling		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 on page 2.	P
	Rated capacity	See copy of the marking plate on page 2.	P

Attachment 1 : Critical components information					P
Object/part No.	Manufacturer/ trademark	Type/Model	Technical Data	Standard	Marks of Conformity
Cell	Shenzhen Max Technology Co., LTD	642540	3.7V, 650mAh	IEC 62133: 2012	Tested with appliance
-Positive electrode	HUNAN SHANSHAN ADVANCED MATERIAL CO., LTD	LC420HS	LiCoO ₂ , PVDF, NMP, Conductive Additive, Copper Foil; μm(143)×mm(43.5)×m m(497)	--	--
-Negative electrode	Jiangxi Zhengtuo New Energy Technology Co., Ltd	LH5	Graphite, CMC, SBR, Distilled Water, Conductive Additive, μm(100)×mm(44.5)×m m(434)	--	--
-Separator	Foshan Jinhui Hi- Tech Optoelectronic Material Co., LTD	20μm*47.5mm* 908mm	PP, Shutdown temperature: 130°C	--	--
-Electrolyte	Zhuhai Smoothway Electronic Materials CO., LTD	SWHM-A003	LiPF ₆ , EMC, EC, DMC	--	--
PCB	SHENZHEN XING BAO SHUN ELECTRONICS SCIENTIFIC CO LTD	XBS-8	V-0, 130°C	UL 796	UL (E361977)
Protective IC (U1)	Shenzhen Developer Microelectronics Co., Ltd	DW01	V _{CU} : 4.28±0.05V V _{DL} : 2.4±0.1V	--	--
MOSFET (U2)	Shenzhen Developer Microelectronics Co., Ltd	DP8205	V _{DS} : 20V, V _{GS} : ±12V I _D : 5A	--	--
DC Connector	CHYAOYEE JVT CONNECTORS CO LTD	Cat. Nos JVT1225H02	2Pins, AC/DC 250V, 2.5A	UL 1977	UL (E364171)
Lead wire	DONGGUAN ZHONGZHEN ELECTRONIC WIRE CO LTD	3302	28AWG, 105°C, 30V	UL 758	UL (E355578)
Tape	SHENZHEN GUANGYE ELECTRONICS TECHNOLOGY CO LTD	511	200°C	UL 510	UL (E309332)
Supplementary information:--					

TABLE: 2.(1)		Continuous Low Rate Charge Test				P
Sample No.	Recommended Charging Method, CC, CV, or CC/CV	Recommended Charging Voltage Vc, Vdc	Recommended Charging Current Irec, mA	OCV at Start of Test, Vdc	Results	
C1#	CC/CV	4.20	130	4.19	P	
C2#	CC/CV	4.20	130	4.18	P	
C3#	CC/CV	4.20	130	4.18	P	
C4#	CC/CV	4.20	130	4.19	P	
C5#	CC/CV	4.20	130	4.19	P	
supplementary information:						
- No Fire or Explosion - No Leakage						

TABLE: 2.(2)	Vibration Test		P
Cell			
Sample No.	OCV at Start of Test, Vdc	Results	
C1#	4.19	P	
C2#	4.18	P	
C3#	4.19	P	
C4#	4.19	P	
C5#	4.18	P	
Battery			
Sample No.	OCV at Start of Test, Vdc	Results	
B1#	4.18	P	
B2#	4.19	P	
B3#	4.19	P	
B4#	4.19	P	
B5#	4.18	P	
supplementary information:			
- No Fire or Explosion			
- No Leakage			

TABLE: 3.(1) External Short Circuit Test						P
Cell						
Sample No.	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 ΔT_r , °C	Results
C1#	45	55.0	4.20	77	88.9	P
C2#	45	55.0	4.21	78	91.3	P
C3#	45	55.0	4.21	77	90.5	P
C4#	45	55.0	4.20	78	99.2	P
C5#	45	55.0	4.20	77	88.7	P
Sample No.	Charge Temperature Low (At 10°C)	Test Temperature (At 55°C ± 5°C)	OCV at start of test, Vdc	Resistance of Circuit, mΩ	Maximum Case Temperature Rise ΔT_r , °C	Results
C6#	10	55.0	4.17	78	88.3	P
C7#	10	55.0	4.17	79	89.0	P
C8#	10	55.0	4.16	77	87.5	P
C9#	10	55.0	4.18	78	89.6	P
C10#	10	55.0	4.17	78	86.8	P
Battery						
Sample No.	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 ΔT_r , °C	Results
B1#	45	23.0	4.20	77	23.4	P
B2#	45	23.0	4.21	78	23.5	P
B3#	45	23.0	4.20	79	23.5	P
B4#	45	23.0	4.21	77	23.4	P
B5#	45	23.0	4.21	78	23.4	P
Sample No.	Charge Temperature Low (At 10°C)	Test Temperature (At 20°C ± 5°C)	OCV at start of test, Vdc	Resistance of Circuit, mΩ	Maximum Case Temperature Rise ΔT_r , °C	Results
B6#	10	23.0	4.17	78	23.5	P
B7#	10	23.0	4.18	79	23.4	P
B8#	10	23.0	4.16	77	23.4	P
B9#	10	23.0	4.17	77	23.5	P
B10#	10	23.0	4.17	78	23.4	P
supplementary information:						
- No Fire or Explosion - No Leakage						

TABLE: 3.(7) Overcharge Tests					P
Sample No.	OCV at start of test, Vdc	Maximum Charging Current, mA	Maximum Charging Voltage, Vdc	Total Time of Charging, h	Results
C1#	3.34	650	10.0	2.5	P
C2#	3.34	650	10.0	2.5	P
C3#	3.33	650	10.0	2.5	P
C4#	3.33	650	10.0	2.5	P
C5#	3.33	650	10.0	2.5	P
C6#	3.34	650	10.0	2.5	P
C7#	3.34	650	10.0	2.5	P
C8#	3.33	650	10.0	2.5	P
C9#	3.34	650	10.0	2.5	P
C10#	3.34	650	10.0	2.5	P
supplementary information:					
<ul style="list-style-type: none"> - 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	
C1#	3.34	650	90	P	
C2#	3.34	650	90	P	
C3#	3.33	650	90	P	
C4#	3.33	650	90	P	
C5#	3.33	650	90	P	
C6#	3.34	650	90	P	
C7#	3.34	650	90	P	
C8#	3.33	650	90	P	
C9#	3.34	650	90	P	
C10#	3.34	650	90	P	
supplementary information:					
- No Fire or Explosion					
- No Leakage					

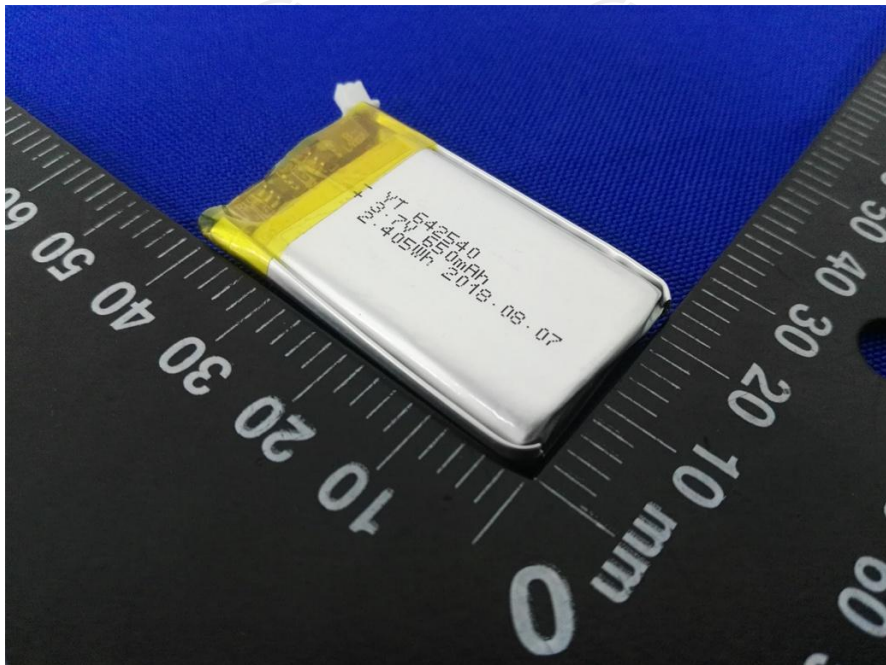
TABLE: 3.(9)	Cell Protection Against a High Charging Rate Test (Lithium Systems)			P
Model	OCV at start of test, Vdc	Maximum Charging Current, mA	Results	
C1#	3.33	1950	P	
C2#	3.34	1950	P	
C3#	3.34	1950	P	
C4#	3.33	1950	P	
C5#	3.33	1950	P	
C6#	3.33	1950	P	
C7#	3.34	1950	P	
C8#	3.34	1950	P	
C9#	3.34	1950	P	
C10#	3.33	1950	P	
supplementary information:				
- No Fire or Explosion				
- No Leakage				

TABLE: 3.(10)	Forced internal short circuit of cells			P
Model	Dew Point (°C)	Maximum Pressure (N)	Voltage Drop (ΔmV)	Results
C1#	-25.0	400	2	P
C2#	-25.0	400	1	P
C3#	-25.0	400	2	P
C4#	-25.0	400	3	P
C5#	-25.0	400	2	P
C6#	-25.0	400	2	P
C7#	-25.0	400	3	P
C8#	-25.0	400	2	P
C9#	-25.0	400	1	P
C10#	-25.0	400	2	P
supplementary information:				
- No Fire or Explosion				

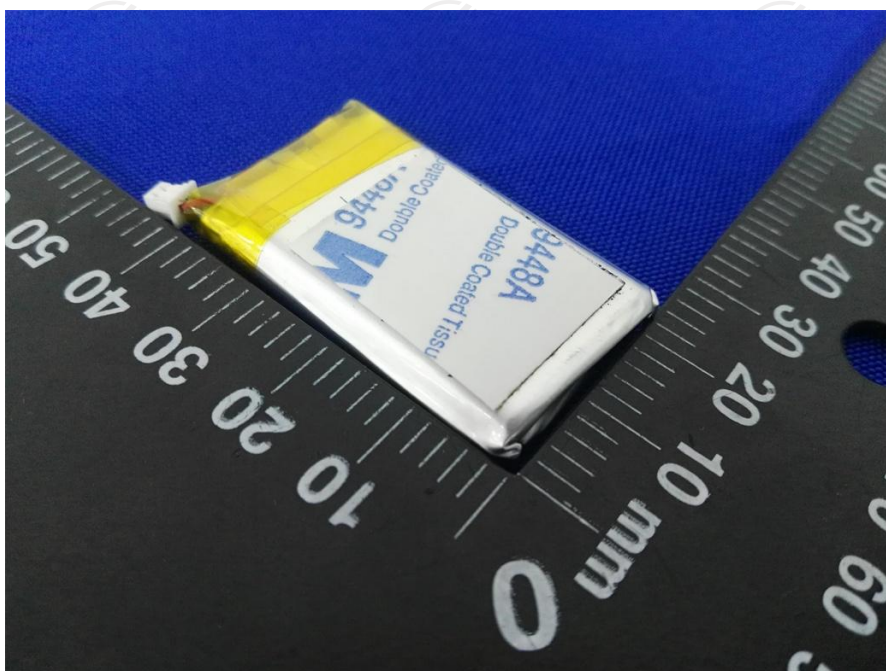
Attachment 2

Photo Documentation

Model: 642540

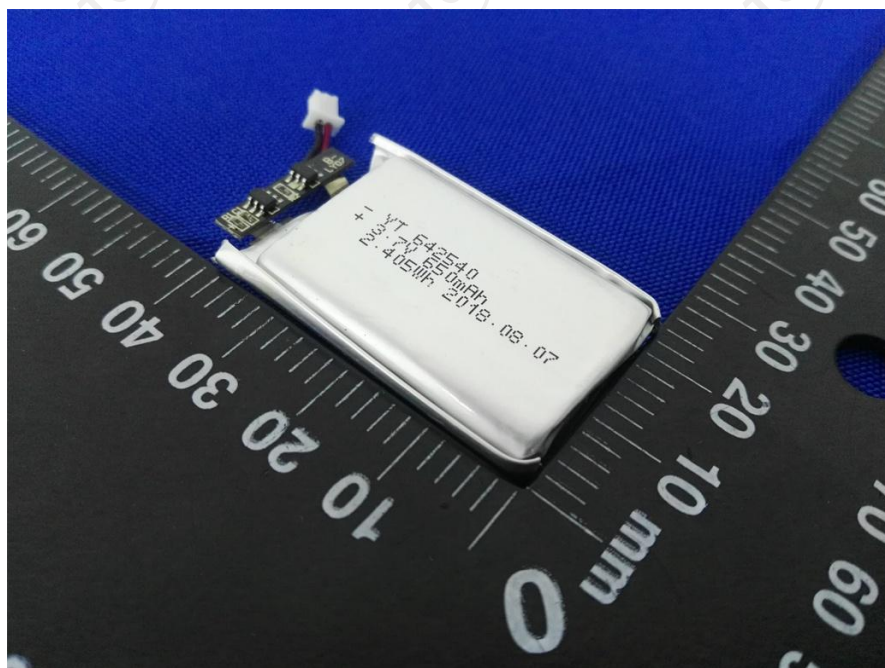


Picture 1. Battery view-1

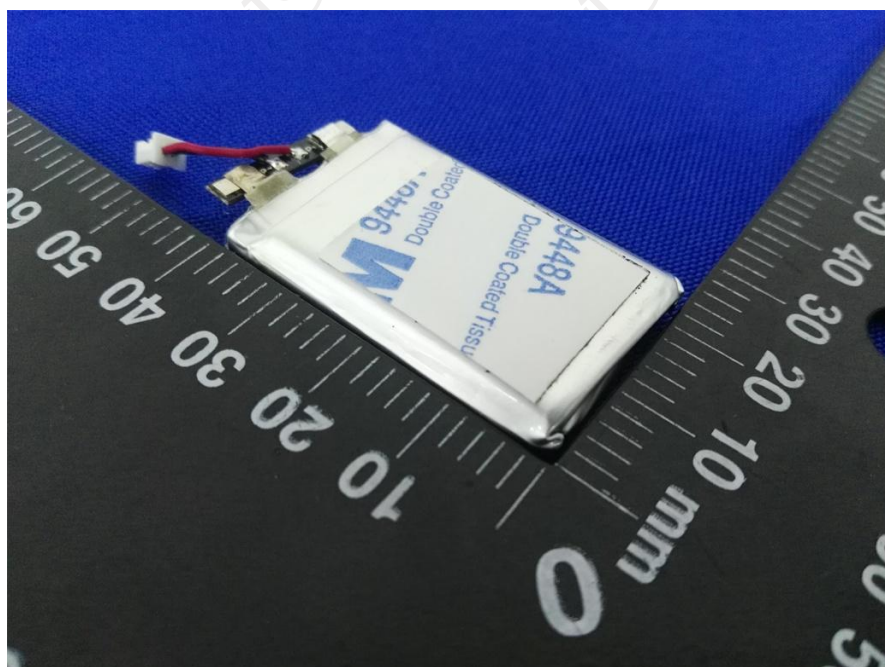


Picture 2. Battery view-2

Photo Documentation

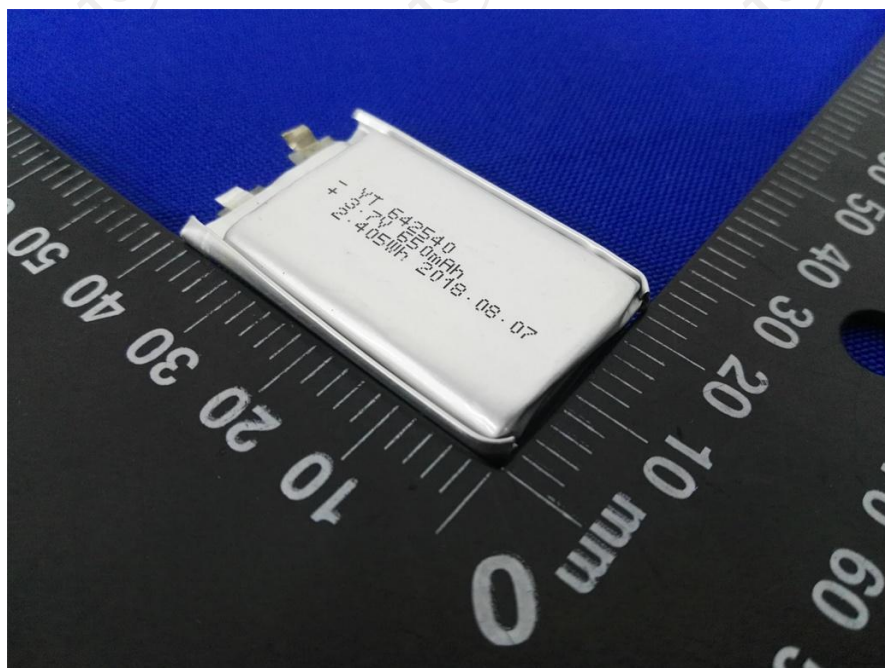


Picture 3. Battery view-3

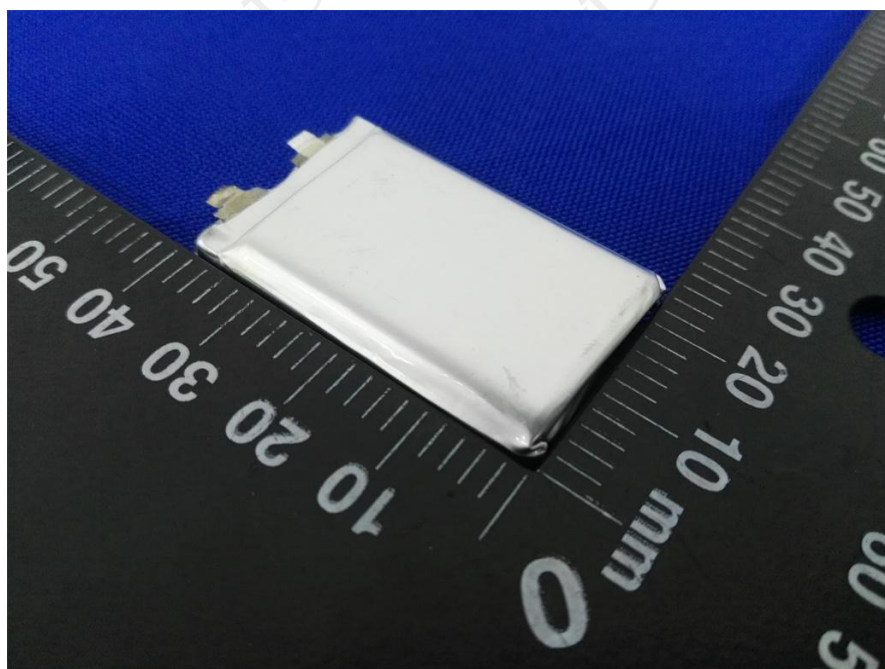


Picture 4. Battery view-4

Photo Documentation

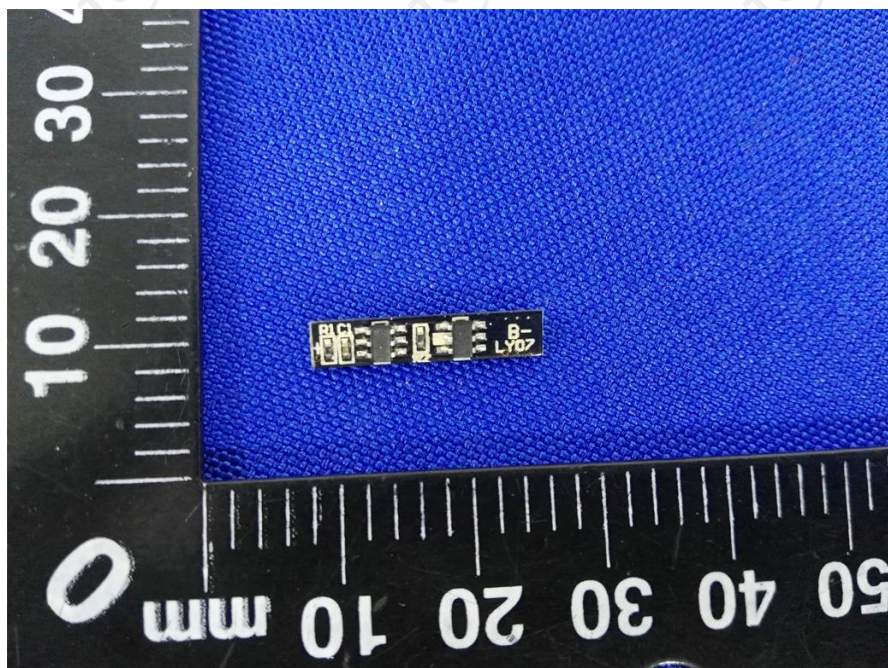


Picture 5. Cell view10

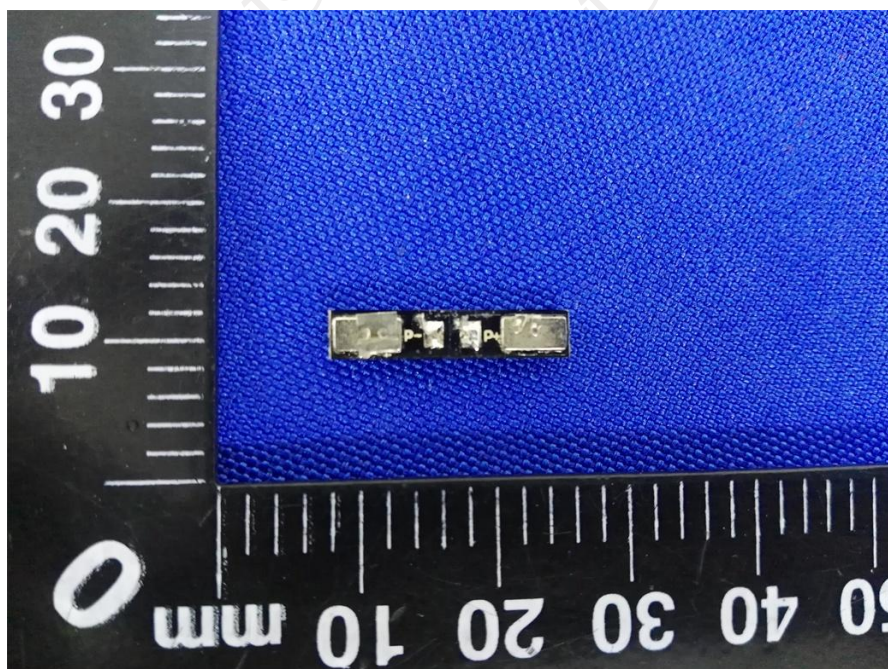


Picture 6. Cell view-6

Photo Documentation



Picture 7. Protection board view-7



Picture 8. Protection board view-8

***** End of Test Report *****

Important Notice

1. The test report is invalid without the official stamp of TCT.
2. Nobody is allowed to photocopy or partly photocopy this test report without written permission of TCT.
3. The test report is invalid without the signatures of Ratifier, Reviewer and Testing engineer.
4. The report is invalid when anything of following happens – illegal transfer, reproduce, embezzlement, imposture, modification or tampering in any media form.
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