





 Address: Lianding Testing Building, No.18 Center Road of Yayuan Industrial Zone, Nancheng District, Dongguan, Guangdong, China.

 Tel:
 86-769-3893 3228
 Email: utl@gdutl.com

 http://www.gdutl.com

# **TEST REPORT UN38.3, Seventh Edition** Recommendations on transport of dangerous goods, manual of test and criteria,

Page 2 of 19

Section 38.3 -	Lithium metal and	lithium ion Batt	teries	
Date of issue	2022 03 07	~	~~~	
Total number of pages	7.83			
Testing Laboratory	GUANGDONG UTL CO	D., LTD.		
Address	Lianding Testing Buildir Zone, Nancheng Distric			ıstrial
Applicant's name:	UltraMax Batteries Ltd			
Address:	Watkins House Pegame	oid Rd., London N	18 2NG	
	A			
Factory's name:	UltraMax Batteries Ltd	0,	Q,	<
Address : Phone number	Watkins House Pegam : +44-02088038899	oid Rd., London N	18 2NG	
Email	: sales@ultramax.co.uk	(		
Website	: ultramax.co.uk	<u>^</u>	^	
Test specification	Chilles	(Alle	(TIP)	<
Standard:	ST/SG/AC.10/11/Rev.7	/Section 38.3		
Test procedure:	N/A			
Non-standard test method:	N/A			
Test item description:	LITHIUM BATTERY	012	Qu	
Trade Mark	N/A			
Model/Type reference:	12V 75Ah	~	~	

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#### Page 3 of 19 Summary of testing: Tests performed (name of test and test clause): Test Conclusion Test(s) Conclusion T.1: Altitude simulation Pass T.2: Thermal test Pass T.3: Vibration Pass T.4: Shock Pass T.5: External short circuit Pass T.6: Impact Pass T.7: Overcharge Pass T.8: Forced discharge Pass Sample Status: Test(s) Sample Number Sample Status at first cycle, in fully charged states. AA1 -AA4 T.1~T.5 after twenty-fifth cycles ending in fully charged states. AA5 -AA8 at first cycle at 50% of the design rated capacity. AB1 -AB5 T.6 after twenty-fifth cycles ending at 50% of the design rated capacity. AB6 - AB10 at first cycle, in fully charged states. AA9 -AA12 T.7 after twenty-fifth cycles ending in fully charged states. AA13 -AA16 at first cycle, in fully discharged states. AB11 - AB20 T.8 after twenty-fifth cycles ending in fully discharged states. AB21 - AB30 The test results: Pass

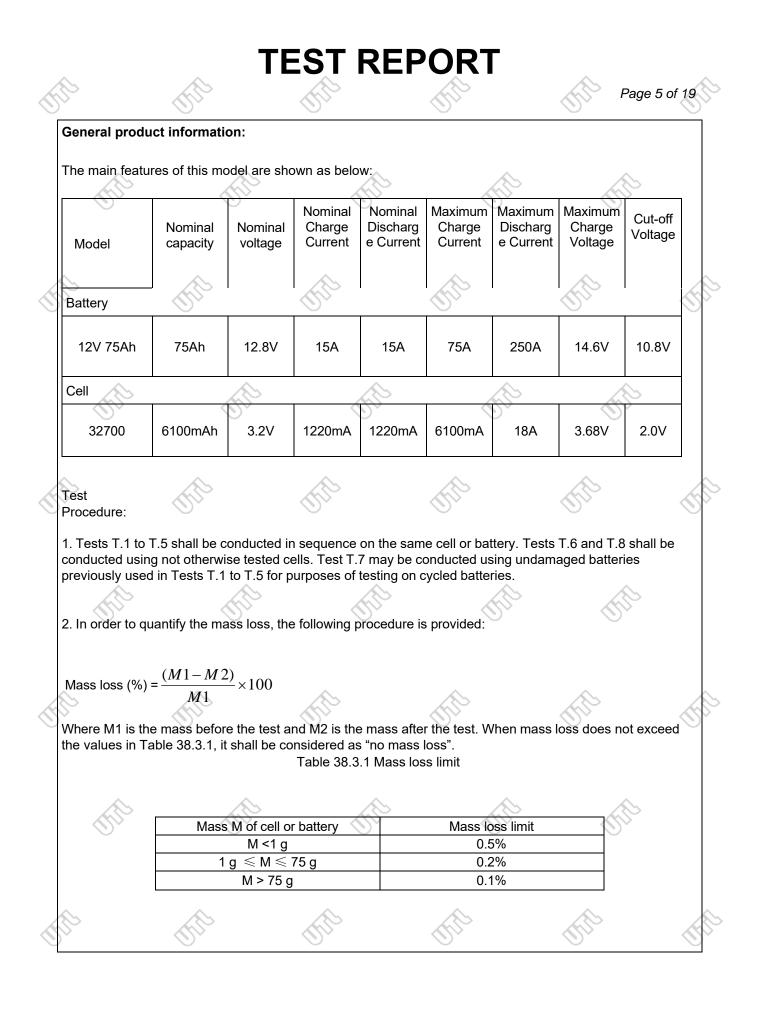
TEST REPORT

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	IESIH	REPORT	Page 4 of 19
Test item	$\bigcirc$	$\odot^*$	
particulars			
Cell type Nominal Voltage of cell		32700 3.2V	Still.
Rated Capacity of cell			
Battery Type			STE C
Appearance	:	Black	
Number of cell Dimension(mm)	Ś	: 52pcs (4S13P) : 258.0mm(max) × 169.0mm	n(max) × 174.8mm(max)
Test case			
Verdicts Test case does not apply to the test	st object	.: N/A	ante de
Test item does meet the requireme	ent	.: P(Pass)	
Test item does not meet the requir	ement	.:-F(Fail)	ALE -
Testing			$\bigcirc$
Date of receipt of test item		. <sup>:</sup> 2021-11-20	
Date(s) of performance of test		.: 2021-11-20 to 2021-12-15	
General remarks	$\bigcirc$	$\odot$	(
This report shall not be reproduce	d, except in full, w	ithout the written approval of	the testing laboratory.
The test results presented in this r	eport relate only to	o the item tested.	
"(see remark #)" refers to a remar	k appended to the	report.	and the
Throughout this report a point is u	sed as the decima	ll separator.	
According to the Standard, a single be tested according to the testing and Battery Cell as aforementione individual test record.	requirements for "	Cell". This testing included th	e samples of Battery Pack

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Page 6 of 19

	UN 38.3		
Clause	Requirement + Test	Result - Remark	Verdict
38.3.4.1	Test T.1: Altitude simulation		Р
- The	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±5°C)	QUE QUE	Р
3	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.	disassembly, no rupture and no fire.	P
38.3.4.2	Test T.2: Thermal test         Test cells and batteries are to be stored for at least six hours at a test temperature equal to 72±2°C, followed by storage for at least six hours at a test		P P
on the	temperature equal to - $40\pm2^{\circ}$ C. The maximum time interval between test temperature extremes is 30 minutes. This procedure is to be repeated 10 times, after which all test cells and batteries are to be stored for 24 hours at ambient temperature (20 $\pm 5^{\circ}$ C).	UTIE UTIE	2
3			
	For large cells and batteries the duration of exposure to the test temperature extremes should be at least 12 hours.	9°	Р
- THE	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	no fire.	P
	discharged states.		

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Page 7 of 19

Clause	Requirement + Test	Result - Remark	Verdict
38.3.4.3	Test T.3: Vibration/		Р
, See	Cells and batteries are firmly secured to the platform of the vibration machine without disto the cells in such a manner as to faithfully trans the vibration. The vibration shall be a sinusoid waveform with a logarithmic sweep between 7 and 200 Hz and back to 7 Hz traversed in 15 minutes. This cycle shall be repeated 12 times a total of 3 hours for each of three mutually perpendicular mounting positions of the cell. C of the directions of vibration must be perpendi to the terminal face.	smit al ' Hz s for Dne	UTIC P
- TH		antib	CTIES .
>	The logarithmic frequency sweep shall differ for cells and batteries with a gross mass of not m than 12 kg (cells and small batteries), and for batteries with a gross mass of more than 12 k (large batteries).	ore	P
J.	For cells and small batteries: from 7 Hz a pea acceleration of 1 gn is maintained until 18 Hz reached. The amplitude is then maintained at mm (1.6 mm total excursion) and the frequence increased until a peak acceleration of 8 gn occ (approximately 50 Hz). A peak acceleration of is then maintained until the frequency is increa- to 200 Hz.	is 0.8 cy curs 8 gn	UTIL N/A
T	For large batteries: from 7 Hz to a peak acceleration of 1 gn is maintained until 18 Hz reached. The amplitude is then maintained at mm (1.6 mm total excursion) and the frequence increased until a peak acceleration of 2 gn occ (approximately 25 Hz). A peak acceleration of is then maintained until the frequency is increa- to 200 Hz.	0.8 cy curs 2 gn	P
5			

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Page 8 of 19

Clause	Desidement i Test	Deput Demark	Mandiat
Clause	Requirement + Test	Result - Remark	Verdict
2	Cells and batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire during the test and after the test and if the open circuit voltage of each test cell or battery directly after testing in its third perpendicular mounting position 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.	No leakage, no venting, no disassembly, no rupture and no fire. See test data for details.	Ρ
38.3.4.4	Test T.4: Shock	48 4	> P
0)	Test cells and batteries shall be secured to the testing machine by means of a rigid mount which will support all mounting surfaces of each test battery.		Р
and the	Shock: a half-sine shock of peak acceleration of 150 g <sub>n</sub> (or Acceleration(g <sub>n</sub> )= $\sqrt{\frac{100850}{mass}}$ , which is smaller) and pulse duration of 6 milliseconds, large cells and large batteries shall be subjected to a half-sine or peak acceleration of 50 g <sub>n</sub> (or Acceleration(g <sub>n</sub> )= $\sqrt{\frac{30000}{mass}}$ , which is smaller) and pulse duration of 11 milliseconds	Star Star	Ρ
2	de de		4
di	Each cell or battery shall be subjected to three shocks in the positive direction and to three shocks in the negative direction in each of three mutually perpendicular mounting positions of the cell or battery for a total of 18 shocks. 冲击。	STAS S	P
100		2	

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Page 9 of 19

Clause	Requirement + Test	Result - Remark	Verdict
- Chille	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.	No leakage, no venting, no disassembly, no rupture and no fire. See test data for details.	P
38.3.4.5	Test T.5: External short circuit		Р
(HIP)	The cell or battery to be tested shall be temperature stabilized so that its external case temperature reaches 57±4°C.	Still Still	P
3	The cell or battery at 57 $\pm$ 4°C shall be subjected to one short circuit condition with a total external resistance of less than 0.1 ohm. This short circuit condition is continued for at least one hour after the cell or battery external case temperature has returned to 57 $\pm$ 4°C, or in the case of the large batteries, has decreased by half of the maximum		P
THE	temperature increase observed during the test and remains below that value.	and and	
3	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.	No disassembly, no rupture and no fire. See test data for details.	P
38.3.4.6	Test T.6: Impact / Crush		P
0.	Test procedure – Impact (applicable to cylindrical cells not less than 18.0 mm in diameter)	Cylindrical cell	Р

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Page 10 of 19

0				Manaliat
Clause	Requirement + Test	Result - Remark		Verdict
T	The sample cell or component cell is to be placed on a flat smooth surface. A 15.8 mm±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±0.1 kg mass is to be dropped from a height of 61±2.5 cm at the intersection of the bar and sample in a controlled	(11)S	-	P
	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.		(ffl)S	<
- ST		the state	-	>
>	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 mm±0.1mm diameter curved surface lying across the centre of the test sample. Each sample is to b subjected to only a single impact.		- The	P
- Th	Test Procedure – Crush (applicable to prismatic, pouch, coin/button cells and cylindrical cells less than 18.0 mm in diameter).	Cylindrical cell	S.	N/A
>	A cell or component cell is to be crushed between two flat surfaces. The crushing is to be gradual wi a speed of approximately 1.5 cm/s at the first poin of contact. The crushing is to be continued until the first of the three options below is reached.	th	- THE	N/A
- Al	(a) The applied force reaches 13 kN±0.78 kN;	- AR		N/A
	<ul> <li>(b) The voltage of the cell drops by at least 100 mV;</li> </ul>			N/A
6	(c) The cell is deformed by 50% or more of its			N/A

Page 11 of 19

ell shall be crushed by at surfaces. For cylindr hall be applied perpend xis.	Il shall be crushed by widest side. A button/coir applying the force on its rical cells, the crush force dicular to the longitudinal	Result - Remark	T	P
pplying the force to the ell shall be crushed by at surfaces. For cylindr hall be applied perpend xis.	widest side. A button/coir applying the force on its ical cells, the crush force	THE	- TH	Р
ach test cell or compo	~			
ach test cell or compo				
o one crush only. The t bserved for a further 6 onducted using test ce	h. The test shall be lls or component cells that			Р
atter a	atter a	atter a		
neir external temperatu nd there is no disasser	re does not exceed 170°C mbly and no fire during the			Р
(11)	Chills (	S REE	Chilles	<
est T.7: Overcharge				Р
nanufacturer's recomm ontinuous charge curre onducted at ambient te ne test shall be 24 hour	ended maximum ent. Tests are to be emperature. The duration o rs. The minimum voltage o		T	Ρ
oltage is not more than f the test shall be the le	n 18V, the minimum voltage esser of two times the			P
oltage is more than 18	V, the minimum voltage of	e (Ju	(Ju)	N/A
here is no disassembly	v and no fire during the tas	t No disassembly a	nd no	Р
		fire. /	$\bigcirc$	
	ells and component ce ells and component ce eir external temperature d there is no disasser est and within six hours est T.7: Overcharge he charge current shall anufacturer's recommon tinuous charge curre onducted at ambient te be test shall be 24 hours the test shall be as follo a) When the manufacture of the test shall be the le f the test shall be the left f the test shall be the left test shall be the le	<ul> <li>ave not previously been subjected to other tests.</li> <li>ells and component cells meet this requirement it beir external temperature does not exceed 170°C and there is no disassembly and no fire during the est and within six hours after this test.</li> <li>est T.7: Overcharge The charge current shall be twice the anufacturer's recommended maximum pontinuous charge current. Tests are to be ponducted at ambient temperature. The duration or the test shall be 24 hours. The minimum voltage of the test shall be as follows: a) When the manufacturer's recommended charge pltage is not more than 18V, the minimum voltage of the test shall be the lesser of two times the taximum charge voltage of the battery or 22V. b) When the manufacturer's recommended charge pltage is more than 18V, the minimum voltage of the test shall be 1.2 times the maximum charge pltage.</li></ul>	ave not previously been subjected to other tests.       Image: No disassembly and no fire during the fire resternal temperature does not exceed 170°C and there is no disassembly and no fire during the set and within six hours after this test.       Image: No disassembly and no fire during the set to data for disassembly and no fire during the set and within six hours after this test.         est T.7: Overcharge       Image: No disassembly and no fire during the charge current shall be twice the nanufacturer's recommended maximum pontinuous charge current. Tests are to be producted at ambient temperature. The duration of the test shall be 24 hours. The minimum voltage of the test shall be as follows:       Image: The voltage of the part of the duration of the test shall be as follows:         a) When the manufacturer's recommended charge of the test shall be the lesser of two times the leaximum charge voltage of the battery or 22V.       Image: The voltage of the battery or 22V.         b) When the manufacturer's recommended charge pltage is more than 18V, the minimum voltage of the test shall be 1.2 times the maximum charge of the battery or 22V.       Image: No disassembly and no fire during the test hold be and the current is follows:         b) When the manufacturer's recommended charge pltage.       Image: No disassembly and no fire during the test hold be and the current is follows:	ave not previously been subjected to other tests.       Image: Ave not previously been subjected to other tests.         ells and component cells meet this requirement if user external temperature does not exceed 170°C at there is no disassembly and no fire during the st and within six hours after this test.       No disassembly and no fire. / See test data for details. /         est T.7: Overcharge       Image: Average current shall be twice the anufacturer's recommended maximum ontinuous charge current. Tests are to be onducted at ambient temperature. The duration of the test shall be 24 hours. The minimum voltage of the test shall be as follows:       Image: Average of the test is 22V, and the current is 150A.         a) When the manufacturer's recommended charge is not more than 18V, the minimum voltage of the test shall be the lesser of two times the laximum charge voltage of the battery or 22V.       The voltage of the test is 22V, and the current is 150A.         a) When the manufacturer's recommended charge is not more than 18V, the minimum voltage of the test shall be the lesser of two times the laximum charge voltage of the battery or 22V.       The voltage of the test is 22V, and the current is 150A.         b) When the manufacturer's recommended charge of the test shall be 1.2 times the maximum charge of the test shall be 1.2 times the maximum charge of the test shall be 1.2 times the maximum charge of the test shall be 1.2 times the maximum charge of the test shall be 1.2 times the maximum charge of the test shall be 1.2 times the maximum charge of the test shall be 1.2 times the maximum charge of the test shall be 1.2 times the maximum charge of the test shall be 1.2 times the maximum charge of the test shall be 1.2 times the maximum charge of the test shall be 1.2 times the maximum cha

Page 12 of 19

Clause	Requirement + Test	Result - Remark	Verdict
38.3.4.8	Test T.8: Forced discharge		Р
- Class	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.	CUL CU	Р
	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).		<
THE	atile atile	STAR STAR	
	There is no disassembly and no fire during the test and within seven days after the test.	No disassembly and no fire. See test data for details.	Р

















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#### Test Data

Page 13 of 19

#### T.1 (Altitude simulation)

	<u></u>			\$			2
Sample No.	Before test		After test		Mass loss	Change ratio	Results
	Mass (g)	Voltage (V)	Mass (g)	Voltage (V)	(%)	(%)	
AA1	8758	13.54	8757	13.53	0.011	99.926	Р
AA2	8756	13.54	8756	13.53	0.000	99.926	Р
AA3	8753	13.53	8752	13.53	0.011	100.000	Р
AA4	8750	13.53	8750	13.52	0.000	99.926	Р
AA5	8751	13.54	8751	13.53	0.000	99.926	P
AA6	8753	13.54	8753	13.54	0.000	100.000	Р
AA7	8754	13.53	8754	13.52	0.000	99.926	Р
AA8	8755	13.53	8754	13.52	0.011	99.926	Р

A. Leakage; B. Venting; C. Disassembly; D. Rupture; E. Fire P. No leakage, no venting, no disassembly, no rupture, no fire/

#### T.2 (Thermal test)

		$\odot$		$)^{\sim}$	$\bigcirc$		>
Sample No.	e Before test		After test		Mass loss	Change ratio	Results
	Mass (g)	Voltage (V)	Mass (g)	Voltage (V)	(%)	(%)	
AA1	8757	13.53	8755	13.39	0.023	98.965	Р
AA2	8756	13.53	8755	13.40	0.011	99.039	Р
AA3	8752	13.53	8751	13.40	0.011	99.039	Р
AA4	8750	13.52	8749	13.39	0.011	99.038	S P
AA5	8751	13.53	8749	13.40	0.023	99.039	Р
AA6	8753	13.54	8752	13.41	0.011	99.040	Р
AA7	8754	13.52	8752	13.39	0.023	99.038	Р
AA8	8754	13.52	8753	13.39	0.011	99.038	Р

Note:

A. Leakage; B. Venting; C. Disassembly; D. Rupture; E. Fire

P. No leakage, no venting, no disassembly, no rupture, no fire

Page 14 of 19

#### Test Data

### T.3 (Vibration)

$\wedge$	\$		/	$\sim$			S
Sample	Before test		After	After test		Change ratio	Results
No	Mass (g)	Voltage (V)	Mass (g)	Voltage (V)	(%)	(%)	
AA1	8755	13.39	8754	13.38	0.011	99.925	Р
AA2	8755	13.40	8755	13.40	0.000	100.000	Р
AA3	8751	13.40	8750	13.39	0.011	99.925	Р
AA4	8749	13.39	8749	13.39	0.000	100.000	Р
AA5	8749	13.40	8748	13.40	0.011	100.000	Р
AA6	8752	13.41	8752	13.40	0.000	99.925	Р
AA7	8752	13.39	8751	13.39	0.011	100.000	Р
AA8	8753	13.39	8752	13.38	0.011	99.925	Р

Note/. A. Leakage/; B. Venting/; C. Disassembly/; D. Rupture/; E. Fire/ P. No leakage, no venting, no disassembly, no rupture, no fire/

#### T.4 (Shock)

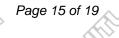
			$\langle \langle \rangle$	$\sim$			>
Sample No.	Before test		After test		Mass loss	Change ratio	Results
	Mass (g)	Voltage (V)	Mass (g)	Voltage (V)	(%)	(%)	
AA1	8754	13.38	8753	13.38	0.011	100.000	P
AA2	8755	13.40	8755	13.39	0.000	99.925	Р
AA3	8750	13.39	8750	13.39	0.000	100.000	Р
AA4	8749	13.39	8748	13.38	0.011	99.925	P
AA5	8748	13.40	8747	13.40	0.011	100.000	Р
AA6	8752	13.40	8752	13.40	0.000	100.000	Р
AA7	8751	13.39	8751	13.38	0.000	99.925	Р
AA8	8752	> 13.38	8752	13.38	0.000	100.000	Р
	- O .				7		C

Note:

A. Leakage; B. Venting; C. Disassembly; D. Rupture; E. Fire/

 $\mathsf{P}.$  No leakage, no venting, no disassembly, no rupture, no fire/





### T.5 (External short circuit)

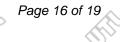
Sample No.	Total circuit Resistance (mΩ)	Maximum Temperature, C	Results
AA1	83.6	56.3	Р
AA2	82.0	56.2	Р
AA3	84.5	56.1	Р
AA4	78.6	56.0	Р
AA5 90.3		56.2	Р
AA6	85.6	56.1	Р
AA7	78.6	56.3	P
AA8	83.4	56.3	Р
Note: A. Disassembly; B. P. No disassembly,	Rupture; C. Fire no rupture, no fire within 6 hours a	fter the test/	

#### T.6 (Impact)

Sample No		tage before Test (V)	Maximum Temperature, C	Results
AB1		3.282	22.4	Р
AB2		3.284	22.3	Р
AB3		3.283	23.6	P
AB4	0,	3.289	226	🔊 р 🔇
AB5		3.281	22.9	Р
AB6		3.283	22.8	Р
AB7		3.287	23.7	P
AB8	S	3.290	22.5	Ø <sup>™</sup> P
AB9		3.284	22.3	Р
AB10		3.283	22.5	Р







### T.7 (Overcharge)

Sample No.	Voltage before (V)	lest	Results
AA9	13.53		Р
AA10	13.54		Р
AA11	13.54	ALC: NO	Р
AA12	13.53	0	Р
AA13	13.54		Р
AA14	13.54		Р
AA15	13.53		P
AA16	13.54	J	P
Note: A. Disassembly/ B. Fire/	rithin seven days after the test/	~	~

### T.8 (Forced discharge)

nple No.	Voltage before Test (V)	Sample No.	Voltage before Test (V)	Results
AB11	2.665	AB21	2.668	Р
AB12	2.661	AB22	2.664	Р
AB13	2.658	AB23	2.659	P
AB14	2.659	AB24	2.656	У Р 🖉
AB15	2.660	AB25	2.655	Р
AB16	2.662	AB26	2.650	Р
AB17	2.656	AB27	2.667	P
AB18	2.656	AB28	2.652	P
AB19	2.655	AB29	2.657	Р
AB20	2.662	AB30	2.657	Р
	AB11 AB12 AB13 AB14 AB15 AB16 AB17 AB18 AB19 AB20	(V)           AB11         2.665           AB12         2.661           AB13         2.658           AB14         2.659           AB15         2.660           AB16         2.662           AB17         2.656           AB18         2.655	(V)           AB11         2.665         AB21           AB12         2.661         AB22           AB13         2.658         AB23           AB14         2.659         AB24           AB15         2.660         AB25           AB16         2.656         AB26           AB17         2.656         AB27           AB18         2.655         AB28           AB19         2.655         AB29	(V)         (V)           AB11         2.665         AB21         2.668           AB12         2.661         AB22         2.664           AB13         2.658         AB23         2.659           AB14         2.659         AB24         2.656           AB15         2.660         AB25         2.655           AB16         2.656         AB26         2.650           AB17         2.656         AB27         2.667           AB18         2.656         AB28         2.652           AB19         2.655         AB29         2.657



Figure 1 Overall view I of battery



Figure 2 Overall view II of battery

S.

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Photos

Page 18 of 19

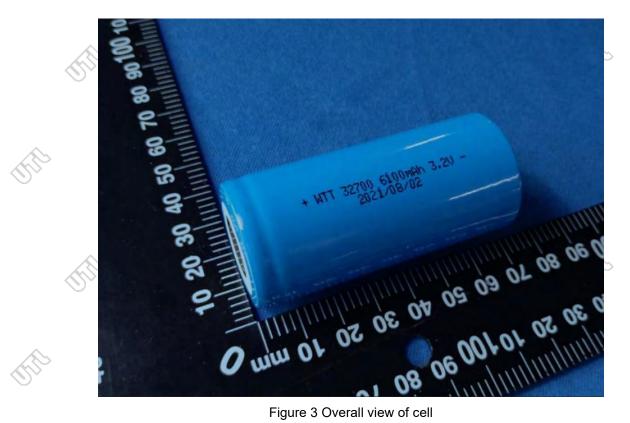
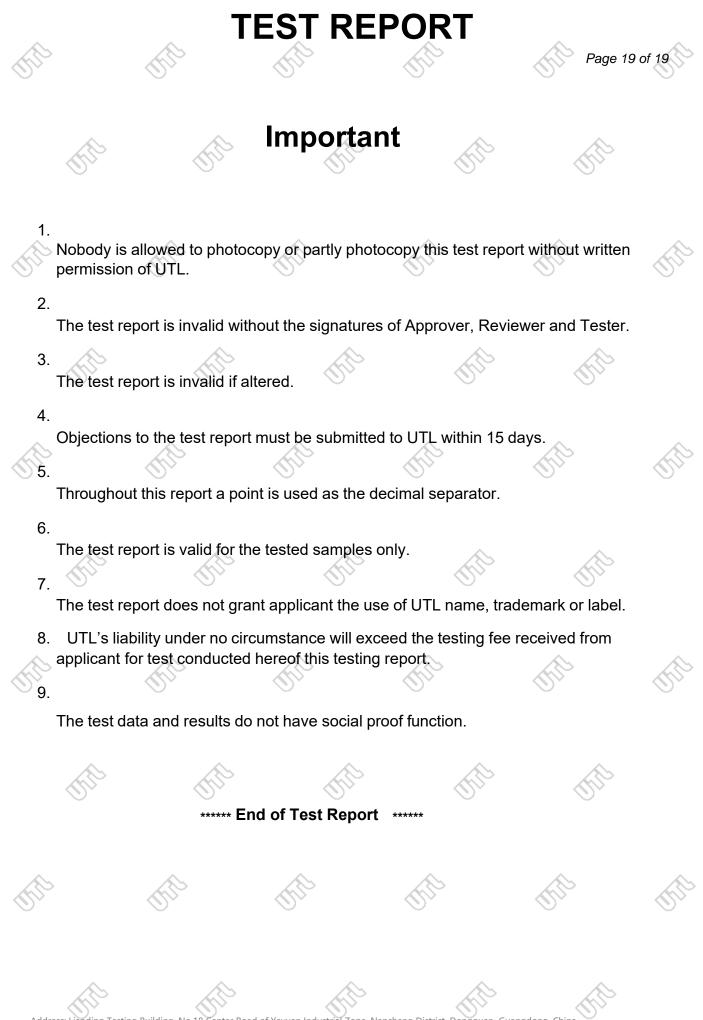


Figure 3 Overall view of cell



Figure 4 Battery Label

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