

TEST REPORT

EN 62133: 2013(2nd Edition)

Secondary cells and batteries containing alkaline or other non-acid electrolytes

Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications

Report reference No. TCT150330B011-1

Tested by (name+ signature): Evan Chen

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Date of issue Apr. 16, 2015

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Testing laboratory Shenzhen TCT Testing Technology Co., Ltd.

Town, Baoan District, Shenzhen, Guangdong, P.R.C (518101)

Testing location As above

Applicant's name SHENZHEN KAILIANYIN TECHNOLOGY CO., LTD.

Address F/3, F1 BUILDING, HUAFENG INDUSTRIAL PARK, HANGCHENG

AVENUE, GUSHU, XIXIANG TOWN, BAOAN DISTRICT,

SHENZHEN CITY, GUANGDONG

Manufacturer's name: SHENZHEN KAILIANYIN TECHNOLOGY CO., LTD.

. F/3, F1 BUILDING, HUAFENG INDUSTRIAL PARK, HANGCHENG

AVENUE, GUSHU, XIXIANG TOWN, BAOAN DISTRICT,

SHENZHEN CITY, GUANGDONG

Test specification::

Standard EN 62133: 2013(2nd Edition)

Test procedure Type approved

Procedure deviation N.A.

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 TCT Testing Technology.

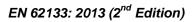
Test item description RECHARGEABLE LI-ION BATTERY

Trade Mark: ----

Model/type reference S009

Ratings 3.7V, 3.33Wh(900mAh)

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Particulars: test item vs. test requirements	
Classification:	☑ Li-ion Battery☑ Nickel Battery
Dimension:	L: 33.0mm
	W: 29.4mm
	T: 10.9mm
Shape:	⊠Prismatic
	□Pouch
	☐Coin/button
	☐ Cylindrical
Mass of apparatus:	16.7g
Possible test case verdicts:	
- test case does not apply to the test object:	N/A
- test object does meet the requirement:	P(ass)
- test object does not meet the requirement:	F(ail)
Testing:	
Date of receipt of test item:	Mar. 30, 2015
Date(s) of performance of test:	Mar. 30, 2015 – Apr. 16, 2015
General remarks:	
"(see remark #)" refers to a remark appended to the repo	ort,
"(see appended table)" refers to a table appended to the	report,
Throughout this report a comma is used as the decimal	separator,
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 testing laboratory,
Clause numbers between brackets refer to clauses in EN	N 62133(Optional remark).

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General product information:

The battery, model no.: S009, is used in portable applications and consists of One RECHARGEABLE LI-ION Cell, the cell model no.: 902830PL;

The cells and batteries have been tested and evaluated according to their specified working conditions (as given below), which are provided by client;

Details information of the battery and the cell built in the battery, as following:

Product	RECHARGEABLE LI-ION Cell	RECHARGEABLE LI-ION BATTERY	
Model No.	902830PL	S009	
Nominal voltage	3.7V	3.7V	
Rated capacity	900mAh	900mAh	
Charge method (450mA) constant current, 4.2V until (450mA) constant curre		Charging the battery with 0.5C (450mA) constant current, 4.2V until current reaches 0.02C (45mA)	
Max. Charging Current	900mA	900mA	
Max. Charging voltage	4.2V	4.2V	
End of discharge voltage	2.75V	2.75V	
Dimension	30.9*27.2*8.9mm 33.0*29.4*10.9mm		
Weight	13.3g	16.7g	

Tests are made with the number of batteries specified in EN 62133 Table 1.

Tests Performed (name of test and test clause):

Tests are made with the number of samples specified in Table 2 of EN 62133: 2013(2nd Edition).

Test items:

CI.6 type test conditions

Cl.8.1 Charging procedures for test purposes

Cl.8.2.1 Continuous charging at constant voltage (cells)

CI.8.3.1 External short circuit(cell)

Cl.8.3.2 External short circuit(battery)

Cl.8.3.3 Free fall

Cl.8.3.4 Thermal abuse (cells)

CI.8.3.5 Crush(cells)

CI.8.3.6 Over-charging of battery

Cl.8.3.7 Forced discharge (cells)

Cl.8.3.8 Transport test

Cl.8.3.9 Forced internal short circuit (cells)

Testing Location:

Shenzhen TCT Testing Technology Co., Ltd.

1F, Building 1, Yibaolai Industrial Park, Qiaotou Village, Fuyong Town, Baoan District, Shenzhen, Guangdong, P.R.C (518101)

Test conclusion:

The RECHARGEABLE LI-ION BATTERY submitted by SHENZHEN KAILIANYIN TECHNOLOGY CO., LTD. are tested according to EN 62133: 2013(2nd edition) Secondary cells and batteries containing alkaline or other non-acid electrolytes Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications.

Test result: Pass.

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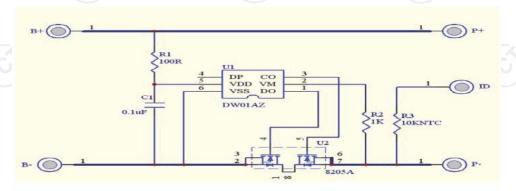
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Copy of marking plate:



Circuit diagram:



PCB BOM List:

Item	Reference	Description	Туре
1	PCB	PCB	27.1*3.3*0.6mm
2	U1	Protection IC	DW01 SOT-23-6
3	U2	Power mosfet	8205A SOT-23-6
4	R1	Resistor	100±5% 1/16W 0402
5	R2	Resistor	102±5% 1/16W 0402
6	R3	Resistor	10KNTC B=3435 ±5% 1/16W 0402
70	C1	Capacitance	104 ±20% 25V 0402

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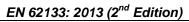
	EN 62133: 2013	T	
Clause	Requirement – Test	Result - Remark	Verdict
5	General safety considerations		Р
,	Cells and batteries subject to intended use be safe and continue to function in all respects	Refer to the following clauses.	Р
C	Cells and batteries subject to reasonably foreseeable misuse do not present significant hazards.	Refer to the following clauses.	Р
5.1	General		Р
5.2	Insulation and wiring		Р
)	–Insulation Resistance between an accessible metal case (excluding electrical contacts) and positive terminals $\geq 5 \text{M}\Omega.$	No accessible metal case exists;	N/A
C	Internal wiring and insulation are sufficient to withstand maximum anticipated current, voltage and temperature requirements		P
	Orientation of wiring maintains adequate creepage and clearance distances between conductors. Mechanical integrity of internal connections is sufficient to accommodate conditions of reasonably foreseeable misuse.		P
5.3	Venting		Р
	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.		P
	Encapsulation used to support cells within an outer casing does not cause the battery to overheat during normal operation no inhibit pressure relief.	Without encapsulation.	N/A
5.4	Temperature/voltage/current management	(c)	Р
	The batteries are designed such that abnormal temperature rise conditions are prevented.		Р
	Means is provided to limit current to safe levels during charge and discharge.		P
	The batteries are designed such that within temperature, voltage and current limits specified by the cell manufacturer.		Р
	Batteries provided with specifications and charging instructions for equipment manufacturers so that associated chargers are designed to maintain charging within the temperature, voltage and current limits specified;	See battery specifications;	Р
5.5	Terminal contacts	5) (6	Р
	Terminals have a clear polarity marking on the external surface of the battery	"+" for positive polarity and "-" for negative polarity marking on the label near	Р

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	EN 62133: 2013	1	1
Clause	Requirement – Test	Result - Remark	Verdict
	The size and shape of the terminal contacts ensure that they can carry the maximum anticipated current.		Р
	External terminal contact surfaces are formed from conductive materials with good mechanical strength and corrosion resistance.		Р
60	Terminal contacts are arranged to minimize the risk of short circuits.		Р
	the external connector prevents reverse polarity connections, Battery packs with keyed external connectors designed for connection to specific end products need not be marked with polarity marking;		N/A
5.6	Assembly of cells into batteries	Only one cell.	Р
5.6.1	If there is more than one battery housed in a single battery case, cells used in the assembly of each battery have closely matched capacities, be of the same design, be of the same chemistry and be from the same manufacturer		N/A
	Each battery has an independent control and protection	(0)	N/A
	Manufacturers of cells make recommendations about current, voltage and temperature limits so that the battery manufacturer/designer may ensure proper design and assembly		N/A
)	Batteries that are designed for the selective discharge of a portion of their series connected cells incorporate separate circuitry to prevent the cell reversal caused by uneven discharges		N/A
(C	Protective circuit components are added as appropriate and consideration given to the enddevice application		N/A
)	When testing a battery, the manufacturer of the battery provides a test report confirming the compliance according to this standard		N/A
5.6.2	Design recommendation for lithium system only		Р
(c)	For the battery consisting of a single cell or a single cellblock: - Charging voltage of the cell does not exceed the upper limit of the charging voltage specified in		P

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EN 62133: 2013				
Clause	Requirement – Test	Result - Remark	Verdict	
	- Charging voltage of the cell does not exceed the different upper limit of the charging voltage determined through Clause 8.1.2, NOTE 1.		N/A	
	For the battery consisting of series-connected plural single cells or series-connected plural cellblocks: - The voltages of any one of the single cells or single cellblocks does not exceed the upper limit of the charging voltage, specified in Clause 8.1.2, Table 4, by monitoring the voltage of every single cell or the single cellblocks;		N/A	
	- The voltages of any one of the single cells or single cellblocks does not exceed the different upper limit of the charging voltage, determined through Clause 8.1.2, NOTE 1, by monitoring the voltage of every single cell or the single cellblocks		N/A	
	For the battery consisting of series-connected plural single cells or series-connected plural cellblocks: - Charging is stopped when the upper limit of the charging voltage, specified in Clause 8.1.2, Table 4, is exceeded for any one of the single cells or single cellblocks by measuring the voltage of every single cell or the single cellblocks;		N/A	
	- Charging is stopped when the upper limit of the different charging voltage, determined through Clause 8.1.2, NOTE 1, is exceeded for any one of the single cells or single cellblocks by measuring the voltage of every single cell or the single cellblocks		N/A	
5.7	Quality plan		Р	
	The manufacturer has prepared a quality plan defining the procedures for the inspection of materials, components, cells and batteries and which covers the process of producing each type of cell and battery.	The manufacturer has ISO 9001:2008 certificate and such quality plan.	Р	

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EN 62133: 2013				
Clause	Requirement – Test	Result - Remark	Verdict	

6	Type test conditions		Ρ (
/	Tests were conducted with the number of cells or batteries as outlined in Table 2 of EN 62133 with cells or batteries that were not more than six months old.	Tests are made with the number of batteries specified in Table 2. battery are not more than six months old.	P
	Unless noted otherwise in the test methods, testing was conducted in an ambient of 20°C \pm 5°C.	Tests are carried out at 20°C ± 5°C.	Р

8	Specific requirements and tests	(C)	Р
8.1	Charging procedure for test purposes		Р
8.1.1	First procedure		-
	Test is carried out at 20°C±5°C. Charging method declared by the manufacturer.		P
	Prior to charging, the battery shall have been discharged at 20 °C \pm 5 °C at a constant current of 0,2 h A down to a specified final voltage.		Р
8.1.2	Second procedure	(C)	- (,
	For clause 8.3.1, 8.3.2, 8.3.4, 8.3.5, and 8.3.9 charging procedure After stabilization for 1 to 4 hours respectively at ambient temperature of highest test temperature and lowest test temperature, as specified in Table 4 cells are charged by using the upper limited charging voltage and maximum charging current, until the charging current is reduced to 0,05 <i>I</i> t A, using a constant voltage charging method.		<u>-</u>
	- Upper limit charging voltage	4.25V/cell	- (,
	Maximum charging current Specified by the manufacturer of cells	900mA	-
	Charging temp. Upper limit	40℃	-
/	Charging temp. Lower limit	-5℃	-

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			EN 62133: 2	013				
Clause	Requirement -	- Test			Re	sult - Remari	k	Verdict
8.2	Intended use	}						Р
8.2.1	Continuous cha	arging at const	ant voltage (cell	s)				Р
	Fully charged of charge as spec		ted for 7 days to nufacturer.	a				Р
K	Results:: No fir	e, no explosior	, no leakage	/C	See	e below table;	(C)	P
Sample No.	Model	Recommen ded Charging Method, CC, CV, or CC/CV	Recommend ed Charging Voltage Vc, Vdc	Recomm ded Chargir Currer Irec, A	ng nt	OCV at Start of Test, Vdc	Results	Р
C01	902830PL	CC/CV	4.2	0.45		4.19	NF,NE	Р
C02	902830PL	CC/CV	4.2	0.45		4.18	NF,NE	P
C03	902830PL	CC/CV	4.2	0.45		4.19	NF,NE	Р
C04	902830PL	CC/CV	4.2	0.45		4.18	NF,NE	Р
C05	902830PL	CC/CV	4.2	0.45		4.18	NF,NE	Р /

supplementary information:

NF: No FireNE: No ExplosionNL: No Leakage

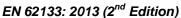
- Fire: the emission of flames from a cell or battery.

- Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled.

- Leakage: visible escape of liquid electrolyte.

8.2.2	Moulded case stress at high ambient temperature (battery)		Р	
(c)	Fully charged batteries according to the first procedure in 8.1.1, the 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.	QC.	P	
	Results: no physical distortion of the battery casing resulting in exposure if internal components.		Р	
Sample No.		(c1)	(
	No evidence of mechanical damage			
Status	No physical distortion of the battery case resulting in exposure components.	of internal	6)	

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	-		211 02 1001 20 10 12	
		EN 62133: 2013		
Clause	Requirement – Test		Result - Remark	Verdict

8.3	Reasonably for	oreseeable m	isuse		(.c ⁽¹⁾)			Р
8.3.1	External shor	t circuit (cell)						Р
	Fully charged in 8.1.2;	each cell acc	ording to the sec	ond procedure				Р
(C)	Fully charged 20°C ± 5°C.	cells were sul	bjected to a shor	t circuit test at		(C)		Р
	The external r	esistance of 8	30 ± 20 m Ω .					Р
			h or until the ca	.)			Р	
	Results: no fir	e, no explosio	n.				Р	
	After the test				See below			Р
Sample No.	Ambient temperature (At 20°C ± 5°C)	OCV at start of test (Vdc)	Max. External Temperature (°C)	Resistance of Circuit (mΩ)	Charging temp. Upper limit (°C)	Results		Р
C06	25.0	4.21	88.3	62	40	NF,NE		Р
C07	25.0	4.21	94.2	62	40	NF,NE		Р
C08	25.0	4.21	96.7	62	40	NF,NE		Р
C09	25.0	4.20	87.5	62	40	NF,NE		Р
C10	25.0	4.21	84.8	62	40	NF,NE		Р
Sample No.	Ambient temperature (At 20°C ± 5°C)	OCV at start of test (Vdc)	Max. External Temperature (°C)	Resistance of Circuit (mΩ)	Charging temp. Lower limit (°C)	Results		Р
C11	25.0	4.18	89.5	62	-5	NF,NE		Р
C12	25.0	4.18	88.3	62	-5	NF,NE		Р
C13	25.0	4.19	85.6	62	-5	NF,NE	X \	Р
C14	25.0	4.18	91.2	62	-5	NF,NE	5)	Р
C15	25.0	4.17	90.3	62	-5	NF,NE		Р

supplementary information

- NF: No Fire

- NE: No Explosion

Fire: the emission of flames from a cell or battery.Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled.

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			EN 62133:	2013			
Clause	Requirement	t – Test			Result - Remark		Verdict
8.3.2	External shor	t circuit (batte	ery)				Р (
/	Fully charged procedure in 8		according to the	second			Р
C	Fully charged test at 55°C ±		e subjected to a s	short circuit			Р
	The external r	esistance of 8	80 ± 20 m Ω .		7		Р
\		leclined by 20	ed for 24 h or unti % of the maximu				Р
A.C.	battery pack sone hour afte state condition where the per	should remain r the current r n. This typical r cell voltage (ow 0,8 V and i	short circuit curre on test for an ac eaches a low en- lly refers to a cor (series cells only) is decreasing by l.	dditional d steady ndition) of the			N/A
	Results: no fir	e, no explosio	n.				Р
	After the test				See below		Р (
Sample No.	Ambient temperature (At 55°C ± 5°C)	OCV at start of test (Vdc)	Max. External Temperature (°C)	Resistance of Circuit (mΩ)	Charging temp. Upper limit (°C)	Results	Р
B01	55.0	4.20	56.8	62	40	NF,NE) P
B02	55.0	4.21	57.1	62	40	NF,NE	Р
B03	55.0	4.21	57.2	62	40	NF,NE	Р
B04	55.0	4.20	56.8	62	40	NF,NE	Р (
B05	55.0	4.22	57.0	62	40	NF,NE	Р
Sample No.	Ambient temperature (At 55°C ± 5°C)	OCV at start of test (Vdc)	Max. External Temperature (°C)	Resistance of Circuit (mΩ)	Charging temp. Lower limit (°C)	Results	Р
B06	55.0	4.18	56.4	62	-5	NF,NE	Р
B07	55.0	4.19	55.6	62	-5	NF,NE	Р
B08	55.0	4.17	56.3	62	-5	NF,NE	Р
B09	55.0	4.17	56.5	62	-5	NF,NE	Р
B10	55.0	4.18	56.1	62	-5	NF,NE	Р

supplementary information

- NF: No Fire
- NE: No Explosion
- Fire: the emission of flames from a cell or battery.
- Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled.

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		EN	N 62133: 2013			
Clause	Requireme	ent – Test		Result - Remark		Verdict
8.3.3	Free fall					Р
/	Ambient tei	mperature of 20 $\pm5^\circ\!$			Р	
	Fully charged cells or batteries were dropped 3 times from a height of 1.0 m onto a concrete floor. Three times					Р
	for a minim	st, the cell or battery sha rum of one hour and theo shall be performed.) _
	Results: no	fire, no explosion				Р
Results: n Sample No. Status		C16	C17	(C)	C18	
		NF, NE NF, NE		=	NF, N	=
Samp	ole No.	B11	B12		B13	>.
Sta	atus	NF, NE	NF, NE		NF, NI	
				/		-

supplementary information:

- NF: No Fire
- NE: No Explosion
- Fire: the emission of flames from a cell or battery.
- Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled.

8.3.4	Thermal abuse (cel	ls)				Р			
	air-convention oven a rate of 5°C/min ± 2°C. The cell remain	Fully charged cells were placed in a gravity or circulating air-convention oven. The oven temperature was raised at a rate of 5°C/min ± 2°C/min to a temperature of 130°C ± 2°C. The cell remained at that temperature for 10 minutes before the test was terminated.							
/	Results: no fire, no				Р				
After the te	st (Charging temp. U	pper limit 40°C))						
Sample No.	C19	C20	C21	C22	CC	23			
Status	NF, NE	NF, NE	NF, NE	NF, NE	NF	, NE			
After the te	st (Charging temp. Lo	ower limit -5°C)			•				
Sample No.	C24	C25	C26	C27	С	28			
Status	NF, NE	NF, NE	NF, NE	NF, NE	NF	, NE			

supplementary information:

- NF: No Fire
- NE: No Explosion
- Fire: the emission of flames from a cell or battery.
- Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled.

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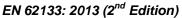
		211 02 1001 20 10 12	
	EN 62133: 2013		
Clause	Requirement – Test	Result - Remark	Verdict

8.3.5	Crush (cells)			(.c.)		P	
	procedure at the u	pper limit chargingly transferred ar	nd crushed between		<i></i>		
6	Fully charged cells surfaces with a hydron.		etween two flat ng a force of 13 kN ± 1		(0)	P	
)	The crushing is permost adverse resu		nner that will cause the	See below		Р	
,	- Once the maxim	um force has bee	en applied,			Р	
	- or an abrupt volta voltage has been				N/A		
(6)	- or 10 % of deforr initial dimension, t condition occurs fi force should be re	he force is releas rst should be the			N/A		
)	A cylindrical or pris longitudinal axis pa apparatus.	(C)		Р			
	Test only the wide	side of prismatic					
	Results: no fire, no	explosion.				Р	
After the te	st (Charging temp. I	Jpper limit 40°C)					
Sample No.	C29	C30	C31	C32	C	233	
Status	NF, NE	NF, NE	NF, NE	NF, NE	NF, NE		
After the te	st (Charging temp. I	_ower limit -5°C)			•		
Sample No.	C34	C35	C36	C37	C	238	
Status	NF, NE	NF, NE	NF, NE	NF, NE	NF	NE	

supplementary information:

- NF: No Fire
- NE: No Explosion
- Fire: the emission of flames from a cell or battery.
 Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled.

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		EN 62133: 2013		
Clause	Requirement – Test		Result - Remark	Verdict

8.3.6	Over-charging of	of battery			(.51)		P
	The test shall be of +20 $^{\circ}$ C \pm 5		in an ambien	t temperature			Р
	Each test batter current of 0,2 It by the manufac	A, to a final				(c)	P
	A discharged ba 5.0V per cell or supplied by the current of 2.0 lt	not to exceed recommender A.	d the maximured charger, at	n voltage a charging	(C)		Р
	Total Time of C the temperature state conditions period) or return	e of the outer (less than 1	casing reach 0°C change i	es steady			
100	Results: no fire,	no explosior	1.	((0)		KO	P
	After the test				No fire, no ex	plosion.	Р
Sample no.	Model	OCV at start of test (Vdc)	Maximum Charging Current (2.0 It A)	Maximum Charging Voltage (Vdc)	Total Time of Charging (h)	temperat ure of the outer casing (°C)	Results
B14	S009	3.30	1.8	5	≤0.1	26.5	NF,NE
B15	S009	3.28	1.8	5	≤0.1	26.3	NF,NE
B16	S009	3.29	1.8	5	≤0.1	25.8	NF,NE
B17	S009	3.31	1.8	5	≤0.1	27.1	NF,NE
B18	S009	3.32	1.8	5	≤0.1	26.0	NF,NE

supplementary information:

- NF: No Fire
- NE: No Explosion
- Fire: the emission of flames from a cell or battery.
- Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled.

Remark: Total time of charging ≤0.1h means the PCB protection in a flash.

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		EN 62°	133: 2013					
Clause	Requirement	- Test		Resu	lt - Remark	Verdict		
8.3.7	Forced discha	arge (cells)				Р (
	A discharged 1 It A for 90 m	cell is subjected to a reve in.	rse charge at	Р				
	Results: no fire	e, no explosion						
Sample no.	Model	OCV before application of reverse charge (Vdc)	Measured Re Charge It (Total Time for Reversed Charge Application (Min)	Results		
C39	902830PL	3.30	0.9		90	NF,NE		
C40	902830PL	3.30	0.9		90	NF,NE		
C41	902830PL	3.31	0.9		90	NF,NE		
C42	902830PL	3.29	0.9		90	NF,NE		
C43	902830PL	3.30	0.9		90	NF,NE		

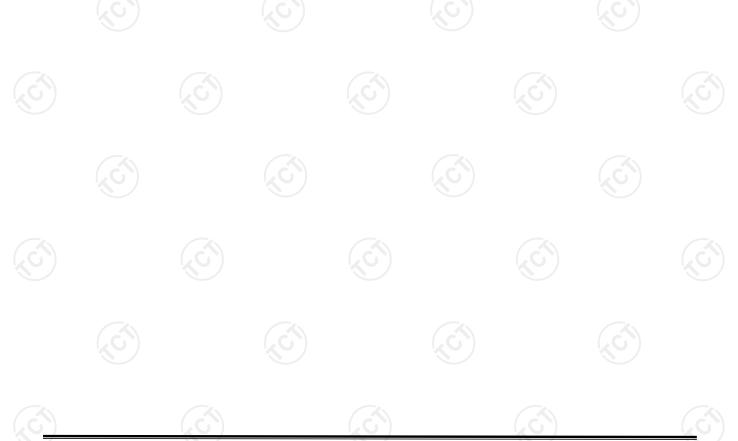
supplementary information:

- NF: No Fire

- NE: No Explosion

- Fire: the emission of flames from a cell or battery.

- Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled.



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	EN 62133: 2013		
Clause	Requirement – Test	Result - Remark	Verdict
8.3.8	Transport test	(6)	N/A
	Regulations concerning international transport of lithium ion batteries are based on the UN Recommendations on the Transport of Dangerous Goods. Testing requirements are defined in the UN Manual of Tests & Criteria.		N/A
	Testing laboratory		N/A
8.3.9	Design evaluation – Forced internal short circuit (cells)	(A)	N/A
)	The cells complied with national requirement for:	Only applicable to France, Japan, Korea and Switzerland;	
	1) Number of samples		N/A
6	This test shall be carried out on five secondary (rechargeable) lithium-ion cells.		N/A
	2) Charging procedure		N/A
\	i) Conditioning charge and discharge		N/A
)	ii) Storage procedure		N/A
	iii) Ambient temperature		N/A
	iv) Charging procedure for forced internal short test		N/A
8	3) Pressing the winding core with nickel particle		N/A
	No fire.		N/A

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Clause	Requirement – Test	Result - Remark	Verdict
9	Information for safety	(6)	Р
(.0	Information is provided to equipment manufacturers in the form of instructions to minimize and mitigate hazards associated with the cells or batteries in accordance with guidelines outlined in informative Annex B.		Р
0	Information is provided to end-users in the form of instructions to minimize and mitigate hazards associated with the batteries in accordance with guidelines outlined in informative Annex C.		Р
		(0)	
10	Marking		Р
10.1	Cell marking		N/A
K	Rechargeable Li or Li-ion	$\langle c \rangle$	N/A
	Battery designation		N/A
	Polarity of terminal		N/A
	Date of manufacture	(0)	N/A
	Name or identification of the manufacturer or supplie	er	N/A
	Nominal voltage(V)		N/A
60	Rated Capacity (mAh)	(0)	N/A
10.2	Battery marking	See below	Р
	Rechargeable Li or Li-ion	Rechargeable Li-ion	Р
	Battery designation	RECHARGEABLE LI-ION BATTERY	Р
	Polarity of terminal	On the battery	Р
(,0	Date of manufacture	See labeling	Р
	Name or identification of the manufacturer or suppli	er SHENZHEN KAILIANYIN TECHNOLOGY CO., LTD.	Р
	Nominal voltage(V)	3.7V	Р
	Rated Capacity (mAh)	900mAh	Р
	Caution statement		Р
10.3	Other information		Р
8	Disposal instructions are marked on the battery or supplied in the information packaged with the battery.	See Specification book	P
	Recommended charging instruction are marked on th battery or supplied in the information packaged with	e See Specification book	Р

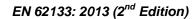
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	Clause	Requ	iirement – Te	st		Res	sult - Remark		Verdict	
11		Packaging Cells or batteries of was adequate to a transport, handling pack design was of unintentional electronical and ingreen		void mechanica and stacking. nosen to preve cal conduction	al damage duri The materials nt the developr	ng and ment of	t of		P	
(C <u>)</u>			(3)		(d)					

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Photos

Model: SOO9

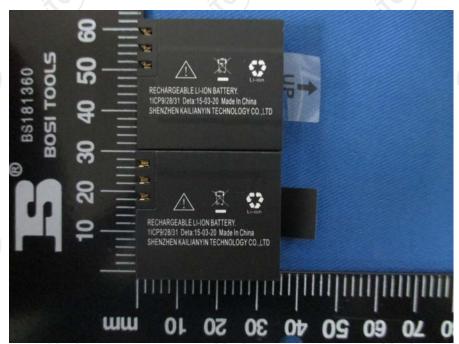


Photo 1 Over view

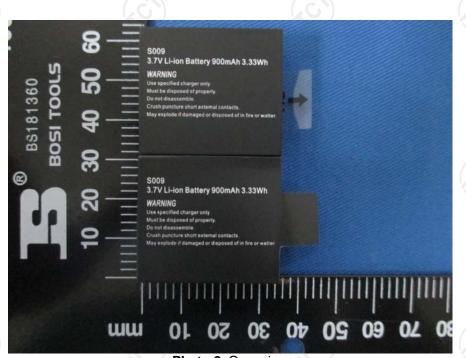
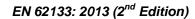


Photo 2 Over view

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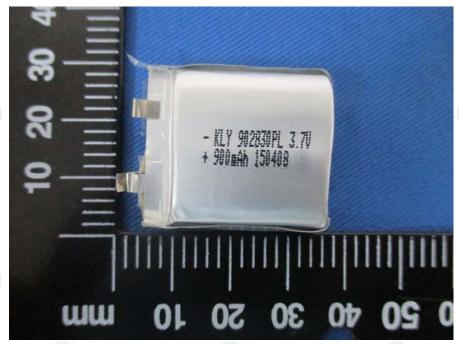


Photo 3 Internal Cell

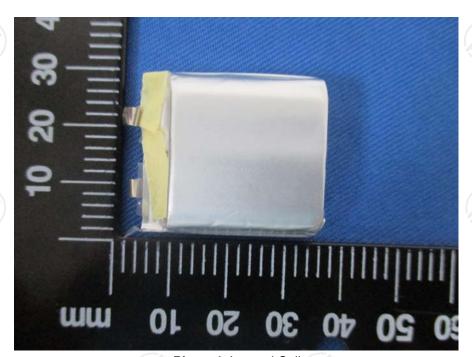


Photo 4 Internal Cell



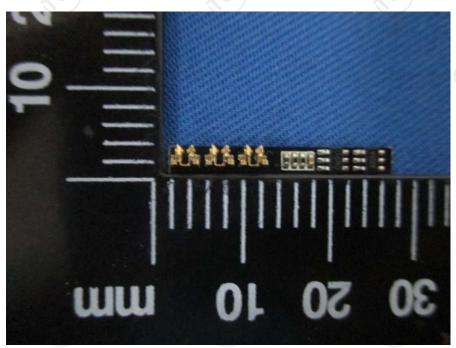


Photo 5 Protection board

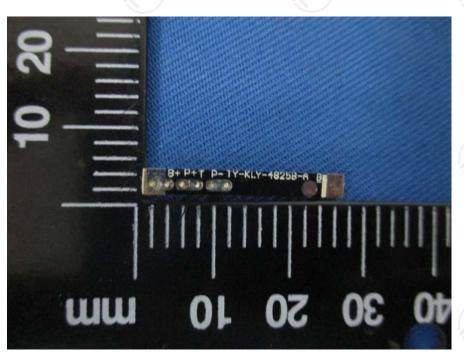


Photo 6 Protection board *** End of Test Report ***

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