





Lilis Ma

# TEST REPORT IEC 62133-2

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 – Part 2: Lithium systems

Report reference No. ...... DSP24080871-1

Tested by (name+ signature) ...... King Li

Compiled by (name+ signature) ......: Fiona Lu

Approved by (name+ signature) ......: Ailis Ma

Total number of pages ......21 Pages.

Name of Testing Laboratory

Dongguan ZRLK Testing Technology Co., Ltd.

Dongguan, Guangdong, China

Address ...... ul. Wrocławska 1C, 55-200 Suchy Dwór

Manufacturer's name ...... Ropla Elektronik Sp. z o. o

Address ...... ul. Wrocławska 1C, 55-200 Suchy Dwór

Test specification .....:

Standard...... IEC 62133-2:2017/AMD1:2021

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 Dongguan ZRLK Testing Technology Co., Ltd.

Test item description ...... Button Lithium-ion Cell

Trade Mark .....: Akyga Battery

Model/type reference .....: LIR1654

Ratings .....: 3.6V, 110mAh, 0.396Wh





	Hill Mark	**************************************	, b	Bir.	140/03
		#White High	The look of the last of the la	Hill to the state of the state	
	Marin Contraction of the Contrac	1/4	K Kill ection	Report No.: DSP24	080871
Particulars: te	est item vs. test requi	irements	Kez (III.	[190] (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	STY 62
Classification	of installation and use	E E	: To be defined in fi	inal product	N.
Supply connec	ction	749	: DC terminal	·\$0.,	
Discharge curi	rent (0,2 It A)	18/20/ 18/20.	: 22mA	- MI # 18-1/201	
93	arging voltage per cell.	-111/200		17.44.40 1.00	1,4
	perature upper limit	0	1	K S III	100A 120A 1型) Co.
مالحالم	perature lower limit	184,09	, J&	in the state of th	\"
-11111 1111	\*\d	~ N.X. C.	, 10		
FIX NO	Jan Co.,	Miles .	Pouch	HELL WAS	-(11)
(65	-MI 186, 100 A	RIK	⊠ Coin/button	*9	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
,x,	Kyth 6Cm,	Ltd		\$\co.\	**************************************
18 18 18 18 18 18 18 18 18 18 18 18 18 1	(4)	ti Milita	gel polymer	No Hall	<i>F</i>
Polymer cell e	lectrolyte type		: ☐ solid polymer	6, 10	
6,40	**************************************	Ltd	⊠ Other	\$ co.	
ossible test	case verdicts:	Wind Co.	HILL	11 (1 to 0)	
test case doe	es not apply to the test	object	· N/A	* * * * * * * * * * * * * * * * * * *	1,50
	pes meet the requirement			String allow	1 700.,
VIS-1	oes not meet the requir	18 00 y	Falk	, " " " " " " " " " " " " " " " " " " "	
-1111, 1-100	Des not meet the requir	ement	. r(all)	15/4/100	
esting:	· (%) co.,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1124 CO.,	Hill Est	.15
ate of receip	t of test item	THE THE PERSON OF THE PERSON O	: 2024-08-08	Jan.	* Kit illy
Date(s) of perf	formance of test	3	2024-08-08 to 202	24-09-06	xxx 100
Seneral rema	irks:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WAIN ON	io.	&- <sup>-</sup>
(see remark #	#)" refers to a remark a	ppended to the rep	ort,	*9	
(see appende	ed table)" refers to a tal	ole appended to the	e report,	Øc0.,	
	is report a comma is us	الدخالم	XXV	1201	4
	s presented in this rep	7.70	•	ill Richio,	49
. (	all not be reproduced e	•	\(\alpha \)		O · , _
	ers between brackets re	a1231		ID1:2021 (Optional re	emark).
lame and add	dress of factory (ies)	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		~ XX O	
Filly Cho	6,5	XXXX CCV	ul. Wrocławska 10	C, 55-200 Suchy Dwó	r
-	uct information:	, 1847 es 111.0	WINGO.	H. W. Co.	服息
	Lithium-ion Cell consis	ts of the positive el	ectrode plate, negat	ive electrode paste, s	eparato
lectrolyte and The positive	and negative electrod	e plates are house	୍ଦ d in the case in the s	state being separated	by the
eparator.	(字) (O.,	William Control	18/15/01/201	HILL WAS	,
Details inf	formation of the cell, as	s following:	A William		
19 N.	Product	, id	Button Lithium-ion	Cell	. 43
	Model No.	(0·)	LIR1654	Maria Co	Hilk
,	Nominal voltage	5,00%	3.6V	-311/28/10/2	, V



		2210	1 - 7/4/2/
Hair Hair	Recommend charging method declared by the manufacturer	Charging the cell with 0.2C (22mA) constant current, 4.20V constant voltage until current reaches 0.02C (2.2mA)	the first feet
1,40	Maximum charging current	110mA	
15 CO.,	Maximum discharge current	110mA	Ti Ti
6/00/	Upper charging voltage	4.25V	Ltd
),	Specified final voltage	3.0V	10 CO.,

#### Summary of testing:

#### Tests performed (name of test and test clause):

cl.5.6.2 Design recommendation;

cl.7.1 Charging procedure for test purposes (for cells);

cl.7.2.1 Continuous charging at constant voltage (cells);

cl.7.3.1 External short circuit (cells);

cl.7.3,3 Free fall (cells);

cl.7.3.4 Thermal abuse (cells);

cl.7.3.5 Crush (cells);

cl.7.3.7 Forced discharge (cells);

cl.8.2 Small cell and battery safety information.

D.2 Annex D (normative) Measurement of the internal AC resistance for coin cells;

# ☐ The product fulfils the requirements of EN 62133-2:2017/A1:2021

### Testing location:

Dongguan ZRLK Testing Technology Co., Ltd. Building 2, No.1, Technology 10th Road, Songshan Lake Park, Dongguan, Guangdong, China

#### Test conclusion:

The Button Lithium-ion Cell submitted by Ropla Elektronik Sp. z o, o are tested according to IEC 62133-2 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.



## 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.

Akyga Battery
 Button Lithium-ion Cell LIR1654
 3.6V, 110mAh, 0.396Wh
 YYMMDD ICP6/17

Cell Label

#### Caution:

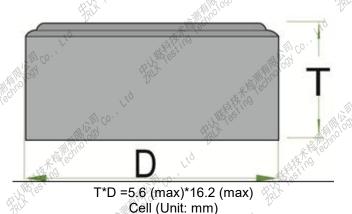
- Keep small cells which are considered swallowable out of the reach of children
- Swallowing may lead to burns, perforation of soft tissue, and death. Severe burns can occur within 2
   h of ingestion
- 3. In case of ingestion of a cell, seek medical assistance promptly

Caution Label

#### Remark:

- 1. "YYMMDD" represents the date of manufacture. "YY" represents the year, "MM" represents the month, "DD" represents the date.
- 2. Caution label will be placed on the immediate package.

#### Construction:



Circuit diagram:

Only cell



- 18 18 CO	* O	×31 / A	rtopert ito	. DOI 2400001 1-1
On state	To.,	IEC 62133-2	15 CO.,	Hill os
Clause Requirement +	Test	HR!X	Result - Remark	Verdict

40.	PARAMETER MEASUREMENT TO	LERANCES (		P
100,	Parameter measurement tolerances	Ltd	**************************************	P <sub>√</sub>
	7,0	A 0.1	A CONTRACTOR OF THE PARTY OF TH	\$ 60.

		42/1/2/109	€ co.,	W. est	AIDA CO
5	GENERAL SAFET	CONSIDER	RATIONS	Hell ,	P P
5.1 Manager	General		K. K. K. Chin	Ltd Ltd	P
15 KM	Cells and batteries that they are safe u intended use and re	nder condition	ons of both	00.)	P
5.2	Insulation and wiri	ng 🗥	EN STATE OF THE ST	. (a) Co.,	P
Lid Hill	The insulation resist terminal and externa the battery (excludir not less than 5 MΩ	ally exposed	metal surfaces of	No metal surface exist	ts. N/A
30.	Insulation resistance	e (MΩ)	H.V.	N/A	- 10
المحالة	Internal wiring and in withstand maximum temperature require	anticipated		Hill to the	N/A
来的 och och oo,	Orientation of wiring and creepage distar	V	1/2/6		N/A
1,00	Mechanical integrity accommodates reas			Hall Killer	MA
5.3	Venting	Lid	14 10 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Øco.,	P
Lid Hall Ber	Battery cases and comechanism or are coexcessive internal puill preclude rupture	onstructed seressure at a	o that they relieve value and rate that	Venting mechanism ex the side of coin cell.	xists on P
,	Encapsulation used casing does not cau normal operation no	se the batter	y to overheat during	14 14 10 Black 10 00 1	N/A
5.4	Temperature, volta	ige and curr	ent management	Cell only.	N/A
A STATE THO TO DAY	Batteries are design temperature rise con			14d	N/A
<i>V</i> .	Batteries are design voltage and current manufacturer			Lig Hillings	N/A
id Hill Post in	Batteries are provide charging instructions so that specified charging within the tilmits specified	s for equipme argers are de	ent manufacturers esigned to maintain	Spirit Co.,	N/A
5.5	Terminal contacts	ME 1604	HALK.	** M. Cho.	P
, , ,	The size and shape that they can carry t			DC terminal complied requirements.	with the P
@\ cO· )	. 49(5) 0.5		A 112.1	NAME .	X 5AZ 0,3.



		Hilly	** ***********************************	i ig	WAY OF THE PARTY O	0/00
	Ltd	#W		Me Co.	port No.: DSP24	180871-
		\$ 00°'	IEC 62133-2	(1) (c)	ni sai	Wikes .
Clause	Requirement + Te	st	Hill	Result - Rema	nrk	Verdi
700		60,	65.	**************************************	749	
7,00.,		als with good	es are formed from mechanical strengt		omplied with the	P
	Terminal contacts of short circuits	are arranged	to minimize the ris	k Hill	10 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	0, b
5.6	Assembly of cell	s into batteri	es All Chron	Cell only	K. W. Jisching	N/A
5.6.1	General 💢	لم الم	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	(A)	#####\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	N/A
		ent, voltage, to equired for sat	emperature and an fety and to maintair		jd thillie	N/A
to Hillings	This protection ma battery such as w devices			Fried Chio	"即"。 「fgg 	N/A
٥٠, ر	If protection is ext manufacturer of the relevant information	ne battery prov on to the exter	vide this safety mal device		Stug pay	N/Å
(10)  ***********************************	If there is more the battery case, each that can maintain regions	n battery has p		Syco.	This fact the state of the stat	N/A
	temperature limits manufacturer/des	so that the ba	urrent, voltage and attery sure proper design	3, (Trg)		N/A
Led Kalk	incorporate circuit	tion of their se ry to prevent o	eriès connected cel	125 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Maria Co.,	N/A
·愈co.'	Protective circuit of appropriate and of device application	onsideration g		HIVE TO SE	100 CO	્ર <sup>ું</sup> N/A
Cotho OOV	The manufacturer analysis of the bar report including a circuit under both conditions confirm	ttery safety cir fault analysis charging and	cuitry with a test of the protection discharging	70. , , , , , , , , , , , , , , , , , , ,	in the state of th	N/A
5.6.2	Design recommer	ndation	34.40°	\$ co.'	W. S.	N/A
d the state of the	cellblock, it is reco	mmended that does not exce	ed the upper limit	Will Choo	Tig Elike	N/A



	Hirty So.	A STATE OF THE STA	AN XX	Filly Chuo
	Million Co.	Firth Fifth Co.	Report No.: DSI	224000871
	1744 100 ( 100 ) 100 ( 100 )	IEC 62133-2	Report No., DSI	-24000011-
Clause	Requirement + Test	Hill was	Result - Remark	Verdic
Siddos (	Troquil em	, tg	The state of the s	) voidin
####/92 31 co.,	For the battery consisting of single cells or series-connect recommended that the voltations of single cells or single cells or single cells or upper limit of the charging voltable 2, by monitoring the vocell or the single cellblocks	cted plural cellblocks, it is ages of any one of the cks does not exceed the oltage, specified in		N/A
St. Lo	For the battery consisting of single cells or series-connect recommended that charging upper limit of the charging vany one of the single cells of measuring the voltage of evingle cellblocks.	cted plural cellblocks, it is g is stopped when the oltage is exceeded for or single cellblocks by	CO., Tra things on the state of	N/A
·o·'	For batteries consisting of s cell blocks, nominal charge as an overcharge protection	voltage are not counted	The co., ro	N/A
المحالم	For batteries consisting of s cell blocks, cells have close be of the same design, be o and be from the same manual.	ly matched capacities, If the same chemistry	Hille to the state of the state	N/A
KWINGECHOOS,	It is recommended that the onot discharged beyond the ospecified final voltage		S. Tig	N/A
	For batteries consisting of s cell blocks, cell balancing ci into the battery managemen	rcuitry are incorporated	119 00.	N/A
5.6.3	Mechanical protection for ce batteries	ells and components of	A Control Light	N/A
149	Mechanical protection for co- control circuits within the ba prevent damage as a result reasonably foreseeable mis	ttery are provided to of intended use and	A STATE OF THE POOL OF THE POO	N/A
A Marino Co.	The mechanical protection of battery case or it can be proproduct enclosure for those building into an end product	ovided by the end batteries intended for	In the state of th	N/A
. (A	The battery case and compare designed to accommoda tolerances during charging a recommended by the cell m	ate cell dimensional and discharging as	To be evaluated in final system.	N/A
to Hilly better	For batteries intended for buend product, testing with the the end product is considered mechanical tests	battery installed within	Apply Co.	N/A
5.7	Quality plan	HALF.	Complied.	P



	Hall Males	14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	t d	K. K. J. C.
	The state of the s	Hill to the state of the state	WAS CO.	sit'
	## 14 Loo.	IEC 62133-2	Report No.: [	DSP24080871-1
Clause	Requirement + Test	EN'X	Result Remark	Verdict
18 co.,	The manufacturer prepares quality plan that defines prodinspection of materials, combatteries and which covers to producing each type of cell of the covers to the covers	cedures for the ponents, cells and he whole process of	Quality plan provided.	P ki
5.8	Battery safety components	s all the tody	FAIR .	N/A

<b>6</b> * * * * * * * * * * * * * * * * * * *	TYPE TEST AND SAMPLE SIZE	700.	P
1 S	Tests are made with the number of cells or batteries specified in Table 1 using cells or batteries that are not more than six months old	18 co., 18	14 10 Con
Ltd High	The internal resistance of coin cells are measured in accordance with Annex D. Coin cells with internal resistance less than or equal to 3 $\Omega$ are tested in accordance with Table 1	Coin cells with resistance ≤3Ω, See appended table D.2.	P
y co.,	Unless otherwise specified, tests are carried out in an ambient temperature of 20 °C ± 5 °C	K. K. Collinson	P
######################################	The safety analysis of 5.6.1 identify those components of the protection circuit that are critical for short-circuit, overcharge and over discharge protection	Liq Hilly betting	° N/A
A TO	When conducting the short-circuit test, consideration is given to the simulation of any single fault condition that is likely to occur in the protecting circuit that would affect the short-circuit test		N/A los

	(b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	15 Co. 15 A. Co.	4
7	SPECIFIC REQUIREMENTS AND TESTS	Jer.	Р
7.1	Charging procedure for test purposes	(0) (1) (0)	P
7.1.1	First procedure	TEMP 100H	Pil
,	This charging procedure applies to subclauses other than those specified in 7.1.2	1 (0) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	, Jtd P
Trimple to Joseph Co.	Unless otherwise stated in this document, the charging procedure for test purposes is carried out in an ambient temperature of 20 °C ± 5 °C, using the method declared by the manufacturer	Light Season The State of the S	P
×16	Prior to charging, the battery has been discharged at 20 °C ± 5 °C at a constant current of 0,2 It A down to a specified final voltage		Sillight Post
7.1.2	Second procedure	This co.	Р
Hill To	This charging procedure applies only to 7.3.1, 7.3.4, 7.3.5, and 7.3.9	of the control of the	P



	Elf Mades	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	To the second	(echnolos
	Control Co.	Hall to the state of the state	Report No.: DSP	24080871-
	17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IEC 62133-2	Troport Tro.: Bor	2100000111
Clause	Requirement + Test	H. K.	Result - Remark	Verdi
700	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1, 1, 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
STOO.	After stabilization for 1 h to 4 temperature of the highest to lowest test temperature, res Table 2, cells are charged by charging voltage and maximuntil the charging current is using a constant current to charging method	est temperature and the pectively, as specified in y using the upper limit num charging current, reduced to 0,05 lt A,	Charge temperature 0-45°C declared; 45°C used for upper limit test temperature; 0°C used for lower limit test temperature.	t Lyd
7.2	Intended use	THE STATE OF THE PARTY OF THE P	(CO.) #1/4/62,	P
7.2.1	Continuous charging at cons	stant voltage (cells)	Tested complied.	* P
	Fully charged cells are subjection charge using the charging mestandard voltage specified by	nethod for current and	Charging for 7 days with 22r and 4.20V.	nA P
180	Results: no fire, no explosion	n, no leakage:	(See appended table 7.2.1)	Р
7.2.2	Case stress at high ambient	temperature (battery)	Cell only	N/A
9	Oven temperature (°C)	(00)	N/A	, x <del>()</del>
20 (g) (c)	Results: no physical distortic resulting in exposure of intercomponents and cells		Elik Ekino	N/A
7.3 Michael	Reasonably foreseeable m	nisuse	7,9	Р
7.3.1	External short-circuit (cell)	A PARTY OF THE PROPERTY OF THE PARTY OF THE	Tested complied.	P
· ·	The cells were tested until o occurred:	ne of the following	7.4g	KAN TO PROPERTY OF THE PROPERT
11 THE	- 24 hours elapsed; or	J. H. C. L.	Wind Co.	N/A
Hill King Co	- The case temperature decimaximum temperature rise	lined by 20 % of the	15 Me Project	Р
1,10	Results: no fire, no explosion	n <sub>co</sub>	(See appended table 7.3.1)	P
7.3.2	External short-circuit (batter	y)	Cell only	N/A
\$ c0.'`	The batteries were tested ur occurred:	ntil one of the following	The state of the s	N/A
18 120Y	- 24 hours elapsed; or	== 10 1 10 10 00,	Jer.	N/A
3 Sall Cyling	- The case temperature dec maximum temperature rise	lined by 20 % of the	Lio Hilliam Hilliam Comment	N/A
が持たが	In case of rapid decline in sh battery pack remained on te hour after the current reache state condition	st for an additional one	Alle god Co., again the graph	N/A
iq Arr.	A single fault in the discharg conducted on one to four (de protection circuit) of the five conducting the short-circuit to	epending upon the samples before	William Co.	N/A
<u> </u>	ZRL.	λ	* Kill Sch	1,50



	#kir	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	To Serve	K Killing ho
	1/40	- Miles in a	15 CO., 1	t las
	The look of the state of the st	RIA ,	200, Jon	XX.
	Try Machine Lad	IEO OO ARKA	Report No.: D	SP24080871
	12	IEC 62133-2		Hill I
Clause	Requirement + Test	182	Result - Remark	Verdi
7,50	A single fault applies to protect	ctive component parts	157 CO.	N/A
7 Co.,	such as MOSFET (metal oxid	e semiconductor field-	THE WOOD ON	4
	effect transistor), fuse, thermotemperature coefficient (PTC)	thermistor	(2) K. W.	1 01
	Results: no fire, no explosion.		(See appended table 7.3	.2) N/A
7.3.3	Free fall		Tested complied.	P P
* Kystillichoo	Results: no fire, no explosion	- ANTO	No fire. No explosion	Р
7.3.4	Thermal abuse (cells)	K 65	Tested complied.	R
	Oven temperature (°C)	* Williams	: 130	A King
(2)	Results: no fire, no explosion	######################################	No fire. No explosion	P
7.3.5	Crush (cells)	H. K.	Tested complied.	P
350,	The crushing force was releas	sed upon:	7.10.00 V	P
740	- The maximum force of 13 kM		( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	P₹
0	applied; or	y thin	- 10 Pho C	6,
	- An abrupt voltage drop of on voltage has been obtained	e-third of the original	is the state of th	N/A
16/1501	Results: no fire, no explosion.	::::::::::::::::::::::::::::::::::::::	(See appended table 7.3	.5) P
7.3.6	Over-charging of battery	XXX edi	Cell only	N/A
100	The supply voltage which is:	es Milod	The state of the s	N/A
	- 1,4 times the upper limit cha presented in Table A.1 (but no single cell/cell block batteries	ot to exceed 6,0 V) for	115% CO.,	N/A
Triples .	- 1,2 times the upper limit cha in Table A.1 per cell for series batteries, and		Elico. Tro	N/A
	- Sufficient to maintain a curre throughout the duration of the voltage is reached		12 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
MEINON CO.,	Test was continued until the to outer casing:	emperature of the	Hill Cost	N/A
Jachno'	- Reached steady state condit change in 30-minute period);		Ltd Tild Tild Tild Tild Tild Tild Tild Til	N/A
	- Returned to ambient		Kri	N/A
× 10	Results: no fire, no explosion.	× 45/20	749	N/A
7.3.7	Forced discharge (cells)	NI KESI	Tested complied.	P
Hilk	Discharge a single cell to the voltage specified by the cell m		O Choo	P
Ö	The discharged cell is then su discharge at 1 It A to the negalimit charging voltage		· Free grant of the contract o	Hi P



	High es	William Cook	Hall.	* Markey Como Jos
	Co., rigo	Hitter Holes	Maria Co.,	Hair of the state
	This ob	Jen Kall	Report	No.: DSP24080871-
نا.	\$\frac{1}{2}\frac{1}{2	IEC 62133-2	1/2/d Co.,	H. W. S.
Clause	Requirement + Test	HALK.	Result - Remark	Verdi
7	* The chi	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	121/4 CO	
3,00.,	- The discharge voltage re of upper limit charging vol duration. The voltage is m value of the upper limit ch the current for the remain	Itage within the testing naintained at the negative larging voltage by reduci	e ng	N/A
14 1 10 Cho Col	- The discharge voltage d value of upper limit chargi testing duration. The test the testing duration	ing voltage within the	, 40	P P
(©°	Results: no fire, no explos	sion	(See appended tak	ole 7.3.7)
7.3.8	Mechanical tests (batterie	s)	Cell only	N/A
7.3.8.1	Vibration	H. W. Es	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
td HAIN	Results: no fire, no explos leakage or venting		(See appended tal	ole 7.3:8.1) N/A
7.3.8.2	Mechanical shock	18 Co.,		N/A
	Results: no leakage, no very explosion and no fire		(See appended tak	ole 7.3.8.2) N/A
7.3.9	Design evaluation – Force (cells)	ed internal short-circuit	Coin cell.	N/A
Ky Jan Chu	The cells complied with na	ational requirement for	: N/A	
110	The pressing was stopped	d upon:	in this	N/A
	- A voltage drop of 50 mV	has been detected; or	(,*,0	N/A
, M. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	- The pressing force of 80 400 N (prismatic cells) ha		Milk Jogs Co.,	N/A
HALK.	Results: no fire	. Tr	: (See appended tal	ole 7.3.9) N/A

.8	INFORMATION FOR SAFETY	Will Bright Cold	Pril
8.1	General	** King Chill	Vid P
THE LOST CO	Manufacturers of secondary cells provides information about current, voltage and temperature limits of their products	Information for safety mentioned in manufacturer's specifications.	Р
KT PECHNO	Manufacturers of batteries provides information regarding how to minimize and mitigate hazards to equipment manufacturers or end-users	The Hill of the second	N/A
H.W. E.	Systems analyses are performed by device manufacturers to ensure that a particular battery design prevents hazards from occurring during use of a product	Milking Co., rg	N/A
ito Ita	As appropriate, any information relating to hazard avoidance resulting from a system analysis is provided to the end user	**************************************	N/A
\	Do not allow children to replace batteries without adult supervision	Mark to the contract of the co	N/A
8.2 60.	Small cell and battery safety information	Small cell.	Р



		Ltd Hill Co.	THE TO SHOW THE STORY	The State of the S	ing to
	-N	The light of the last of the l	IEC 62133-2	Report No.: DSP2	4080871-1
	Clause	Requirement + Test	The state of	Result - Remark	Verdict
	, ,	× 1 de Cour	1,40	1,22,00	
INE I	(g) Co.,	The following warning languag with the information packaged and batteries or equipment usi	with the small cells	See marking plate on page 4.	P High
illing	(A)	- Keep small cells and batteries considered swallowable out of		14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0. P
	THE WOOD	- Swallowing may lead to burns tissue, and death. Severe burn h of ingestion	s, perforation of soft s can occur within 2	100.)	P
Pilk TRLY	Xest.	- In case of ingestion of a cell of medical assistance promptly	or battery, seek	Try July	A KANGE CHOOL

9	MARKING	Hill Col Market Colonial Colon	Р
9.1 Filt	Cell marking	See marking plate on page 3	Р
Co.,	Cells are marked as specified in IEC 61960, except coin cells	Million Co.,	P
. 6	Coin cells whose external surface area is too small to accommodate the markings on the cells show the designation and polarity	Coin cells.	°, ', ' <b>P</b>
King lethology	By agreement between the cell manufacturer and the battery and/or end product manufacturer, component cells used in the manufacture of a battery need not be marked	Lid Hell Hell Hell Hell Hell Hell Hell Hel	N/A
9.2	Battery marking	Cell only	N/A
	Batteries are marked as specified in IEC 61960, except for coin batteries	Hilling co.,	N/A
Led Hall	Coin batteries whose external surface area is too small to accommodate the markings on the batteries show the designation and polarity	10 maring co.,	N/A
	Batteries are marked with an appropriate caution statement	A STATE OF THE PROPERTY OF THE	N/A
All CO	- Terminals have clear polarity marking on the external surface of the battery, or	Hill Con Co	N/A
49 Section on	- Not be marked with polarity markings if the design of the external connector prevents reverse polarity connections	Light of the state	N/A
9.3	Caution for ingestion of small cells and batteries	Small cell.	P
Hill Fest	Coin cells and batteries identified as small batteries include a caution statement regarding the hazards of ingestion in accordance with 8.2	Coin cells.	Р
<i>z</i> 0	Small cells and batteries are intended for direct sale in consumer-replaceable applications, caution for ingestion is given on the immediate package	Not direct sale cell.	N/A
9.4	Other information	\$ CO.	Р



	Hall be	15 Mar 16 16 16 16 16 16 16 16 16 16 16 16 16	, d	* Karlo
	Military Co., rigo	A Sept Control of the	Report No.	DSP24080871-1
	**************************************	IEC 62133-2	1000 CO.	# DOI 240000(111
Clause	Requirement + Test	HAIR .	Result - Remark	Verdict
	* Little Sur.	1,19	TATE OF THE PARTY	,
112-01 /ro	The following information are supplied with the battery:	marked on or	The state of the s	Р
2 10 10 10 10 10 10 10 10 10 10 10 10 10	- Storage and disposal instruc	etions	Information for storage disposal instructions mentioned in manufac specifications.	2 Co.,
A STATE OF THE PROPERTY OF THE	- Recommended charging ins	tructions	Information for recommodarging instructions mentioned in manufac specifications.	A LIVE
	KAN CELLIN			
10	PACKAGING AND TRANSP	ORT (CONTINUE ORT)	18/1501	P
1700	(0)	You	11/20/10	

10	PACKAGING AND	TRANSPORT	SE IN THE PROPERTY OF THE PROP	co.	P
Hil		cells are not be small of the ingestion gauge		7,49	Р
Lid	3	\$ co.,		150 Co.,	HIVE THE PARTY OF

ANNEX A	CHARGING AND DISCHARGING RANGE OF SEC SAFE USE	CONDARY Li-ion CellS FOR	(°, )
A.1	General	Hill Cold	Р
A.2	Safety of lithium ion secondary battery	Complied	Р
A.3	Consideration on charging voltage	Complied	P
A.3.1	General	Felt.	Roll
A.3.2	Upper limit charging voltage	4.25V	P
A.3.2.1	General 000	Which Co.	Р
A.3.2.2	Explanation of safety viewpoint	# Ellipho de la companya de la compa	N/A
A.3.2.3	Safety requirements, when different upper limit charging voltage is applied	4.25V applied.	N/A
A.4	Consideration of temperature and charging current	All tho	, Vid P
A.4.1	General	H11/1/201	Р
A.4.2	Recommended temperature range	See A.4.2.2.	Р
A.4.2.1	General	Leo Marie Ma	PA
A.4.2.2	Safety consideration when a different recommended temperature range is applied	Charging temperature declared by client is: 0-45°C	Rechi Poor
A.4.3	High temperature range	Not higher than the temperature range specific in this standard.	N/A
A.4.3.1	General	740	N/A
A.4.3.2	Explanation of safety viewpoint	18/100/ 12/200	N/A
A.4.3.3	Safety considerations when specifying charging conditions in the high temperature range	45°C applied	N/A
A.4.3.4	Safety considerations when specifying a new upper limit in the high temperature range	Hill Sal Co.	N/A



	#ilk o	** *** ECHO 0 091	, td	LEX TO CONTROL	/03
	Tool or,	Mark Control of the C	(g) (g) (co., )	HALK ESTINS	JZ. (1
	The state of the s	* * * * * * * * * * * * * * * * * * *	Report	No.: DSP240	80871-
J. A	\$\frac{1}{2}\frac{1}{2	IEC 62133-2	1154 CO.,	H.	K est
Clause	Requirement + Test	ERIX )	Result - Remark		Verdi
10	A K Chin	1,19	TANK NO	(V) (V)	
A.4.4	Low temperature range	y co.,	Charging low temp declared by client i		Р
A.4.4.1	General	7,79	109 KK/20		P
A.4.4.2	Explanation of safety viewpoin	t (0.)	Hill Est.	IR IV	) P
A.4.4.3	Safety considerations, when s conditions in the low temperate		0°C applied	Edita Logino	Р
A.4.4.4	Safety considerations when sp limit in the low temperature rar		No documents pro manufacturer expla lower limit exceed applied for testing for safety consider	aining the 10°C, 0°C in this report	P Notice String
A.4.5	Scope of the application of cha	arging current	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1/4	Р
A.4.6	Consideration of discharge	L <sup>td</sup>	14 CO	\$ co.,	Р
A.4.6.1	General	.o.,	5	99	P∛
A.4.6.2	Final discharge voltage and ex viewpoint	planation of safety	Cell specified final 3.0V.	voltage	0.'\P
A.4.6.3	Discharge current and tempera	ature range	H. J. K. C. 2.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Р
A.4.6,4	Scope of application of the dis	charging current	- 7	* Kystlechur	Р
A.5	Sample preparation		.,	£85, 109	P
A.5.1	General	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HAL'H		N/A
A.5.2	Insertion procedure for nickel printernal short	particle to generate	1 (0.) Lig	, W.C.	N/A
A.5.3	Disassembly of charged cell	HOLY CO	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PRIN	N/A
A.5.4	Shape of nickel particle	x d .xi	Kill Chill	Light	N/A
A.5.5	Insertion of nickel particle in cy	lindrical cell	100 M	<i>Co.</i> ,	N/A
A.5.5.1	Insertion of nickel particle in w	inding core	A JULY CHOOL		N/A
A.5.5.2	Marking the position of the niclends of the winding core of the		William Control	18 CO.	N/A
A.5.6	Insertion of nickel particle in pr	ismatic cell	RIF	THE PHONE	N/A
A.6	Experimental procedure of the short-circuit test	ne forced internal	, to	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
A.6.1	Material and tools for preparat	on of nickel particle	FRIA	·,	N/A
A.6.2	Example of a nickel particle pr	eparation procedure	Ltd	**************************************	N/A
A.6.3	Positioning (or placement) of a	nickel particle	18/100/	Hill Brios	N/A
A.6.4	Damaged separator precaution	1	Marchio,	\ ','Q	N/A
A.6.5	Caution for rewinding separate	or and electrode	, _\$\color{10}	), ,	N/A
A.6.6	Insulation film for preventing sl	nort-circuit	100分割 1100		N/A
A.6.7	Caution when disassembling a	cell	TAY OF SOM	. \	N/A
A.6.8	Protective equipment for safety	√ \$\langle \( \rangle \).	THE STATE OF THE S	18/15/1/CO.,	N/A



	- All Chino	19 TAKEO	Report No.: DSP2	24080871-1
rsk.	(b) (c) (c)	IEC 62133-2	15 CO.,	HILL OF
Clause	Requirement + Test	Rix	Result - Remark	Verdict
1,5	Z KI R CLINE	149	A COLOR OF THE COL	
A.6.9	Caution in the case of fire	e during disassembling	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A 🎸
A.6.10	Caution for the disassem pressing the electrode co		114 CO	N/A
A.6.11	Recommended specifica device	tions for the pressing	Filt of the second	N/A
-111/1/20/02.		Z A Z A Z A Z A Z A Z A Z A Z A Z A Z A	*9 XX	
ANNEX B	RECOMMENDATIONS T ASSEMBLERS	O EQUIPMENT MANUFA	CTURERS AND BATTERY	N/A
(00	18 00	The state of the s	, h	* Will schill
ANNEX C	RECOMMENDATIONS T	O THE END-USERS		N/A
- 15EX	100°	* Kit Co	(A) 10 (A)	Chilo.
ANNEX D	MEASUREMENT OF TH	E INTERNAL AC RESIST	ANCE FOR COIN CELLS	Р
D.1	General	\tag{\tau}	Not coin cells.	Р
D.2	Method	41/2/ HIV	Property of the second of the	P
	A sample size of three comeasurement	in cells is required for this	(See appended table D.2)	\\P
18 CO		resistance greater than 3	ENTRES STATES	N/A
1. 10 S. J.	Coin cells with an internal equal to 3 Ω are subjected to Clause 6 and Table 1	XXI.' - (/	S. Tro	P P
	- 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2h Karangan	67,7	XXX 80
ANNEX E	PACKAGING AND TRAI	NSPORT AND THE RESERVE OF THE PERSON OF THE	@c0:'	N/A

ANNEX E PAG	CKAGING AND TRANS	PORT	(数CO.,	N/A
#X25	(1) CO.	11/1 0°	11 (00)	HALL.
3/2010	182 00)	1201	11/K20	V

ANNEX F	COMPONENT STANDA	RDS REFERENCES	Extillation.	, 48	N/A



Ltd Ltd	ELIX KOZOKO	1/4g	MANA CO.
Marie Co.,	High of Service Control of the Contr	Report N	o.: DSP24080871-1
19 (6.)	IEC 62133-2	12 CO.	HILL ST.
Clause Requirement + Test	Rix	Result - Remark	Verdict

7.2.1	TABLE:	Continuous chargin	g at constant voltage	(cells)	P
Samp	ole No.	Recommended charging voltage Vc (Vdc)	Recommended charging current lrec (mA)	OCV before test (Vdc)	Results
Cel	)     #1	4.20	22	4.18	P
Cel	II #2	4.20	22	4.19	P
Cel	II #3	4.20	22	4.19	P killing
Cel	II #4	4.20 رزهٔ	22	4.18	Partition
Cel	II #5	4.20	22	4.19	P

# Supplementary information:

- No fire or explosion
- No leakage

7.3.1	TABI	LE: External short	circuit (cell)		Street The Street	P P
Sample I	No.	Ambient (°C)	OCV at start of test (Vdc)	Resistance of circuit (mΩ)	Maximum case temperature rise ∆T (°C)	Results
100	RIV	Samples char	ged at charging te	mperature upper	r limit (45°C)	William Church
Cell 6#	# - IN 18 POOL	58.0	4.21	82	ু 15.1	A P
Cell 7#	#\)	58.0	4.20	79	116.0	P
Cell 8#	#	58.0	4.20	85	115.6	P
Cell 9#	#	58.0	4:21	77	117.0	P
Cell 10	#	58.0	○ 4.21	81	116.7	P Hill
	HALY RIV	Samples char	ged at charging to	emperature lowe	r limit (0°C)	1,49
Cell 11	# <sup>\\\</sup>	58.4	4.12	81	120.1	
Cell 12	#	58.4	4.11	78	118.8	P
Cell 13	#	58.4	4.11	84 3	119.4	Р
Cell 14	#	58.4	4.12	<b>83</b>	120.5	P
Cell 15	# 18 00	58.4	4.12	76	118.1	Petho
Supplemer	ntary i	nformation: ्े	, XXX	, C.	Lia	en Kiking

- No fire or explosion



7 8 20	* 0	×31 / \	rtoport rto	DOI 2 10000011 1
ON HARMAN	(1) CO.,	IEC 62133-2	154 co.,	Hilles
Clause Requirement + 1	est	RIV	Result - Remark	Verdict

\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2777,109		0.1	\$\$\\chis\\	المحللم	row .
7.3.2	TABLE: Externa	l short circuit (k	oattery)	Hill	- # 10 Pro 100 s	N/A
Sample No	Ambient T (°C)	OCV before test (Vdc)	Resistance of circuit (mΩ)	Maximum case temperature rise ∆T (°C)	Component single fault condition	Results
z Killebno.	<del></del> (40	4		7,70	XXX	
- O	10 to . ,	11/2/65		\$1501	477	11/19/19
	111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pett		<u></u>	, d <del></del>	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
*		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	On Athan	<del></del> ,	o., <del></del>	1 KK 65
W/205		1907	Hill -			thir
Supplemen	tary information:		, 4g	XXXXX ech	1,49	باد

10.,		Strio Co	· · · · · · · · · · · · · · · · · · ·	## 1500 CO.	Hill Hill
7.3.5	TABLE:	Crush (cells)	Jkr.	* Kitaling Chino	P
Sam	nple No.	OCV before test (Vdc)	OCV at removal of crushing force (Vdc)	Maximum force applied to the cell during crush (kN)	Results
E KELLONO	;	Samples charged at cl	harging temperature ι	pper limit (45°C)	<u></u>
Ce	ell 29#	4.21	4.20	13	P
Ce	ell 30#	4.21	4.20	13	Precini
Ce	ell 31#	4.20	4.19	13	P
Ce	ell 32#	4.20	4.20	13	P
Ce	ell 33#	4.21	4.19	13 \tag{\tag{\tag{13}}	P
Ltd		Samples charged at o	harging temperature	lower limit (0°C)	#1/K
Ce	ell 34#	4.11	4.10	1300	P.
Ce	ell 35#	4.12	4,10	13	P
Ce	ell 36#	4.12	4.11	13	P P
THE CE	ell 37#	4.11	4.10	13	P
A Ce	ell 38#	4.12	4.12	13	P
(400	A 0.1	\$\frac{1}{2} \frac{1}{2} \frac	. 15.1	NVI '	~ 00,

# Supplementary information:

- No fire or explosion

Note: A 13kN force applied at the flat surface of coin cells.



Report No.: DSP24080871-1	Clause Requirement + Test	120 02 100 2	Result - Remark	Verdic
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	Alika co.	Hill Legan	16/100A	Hill is
	Hall the second of the second		15	z Williagh,

7.3.6	TABL	E: Over-charg	ing of bat	tery	Hill	65	-111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N	I/A
Constant	charging	current (A)	Kill Chio	:	1,49	×4.	Wall Coll.	-	1,40
Supply v	oltage (V	dc)	\$\$ \$\$\frac{1}{2}\$		Co.,	HILLEST		15 y Co.	_
Samp	le No.	OCV before (Vdc		Total char		Maximum o temperati	X.	Result	ts
- 60/ EX	-	(1) CO. ,		(5) (10) <u>-</u>	- 100	Jo.,	Hillest		THE I
		leo	BRIR	-	- " - " - " - " - " - " - " - " - " - "		380	<del>-</del> **	in school
	- XXXX echin		Lid	.4EX	Ž. 100	@co.		18 18 18 18 18 18 18 18 18 18 18 18 18 1	9
, W	£ 25 100	1000 C	D.,	# 1/ W C	- -	Kelling		HRIF	
PRIX	-	*Zilligholog		- 720	-	* Killing		,δ <b></b>	
Supplem	entary in	formation:		0.,	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	7,00	alizat co.,		With the

7.3.7	TABLI	E: Forced discharge (ce	ells)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P
Sample	e No.	OCV before application of reverse charge (Vdc)	Measured reverse charge It (mA)	Lower limit discharge voltage (Vdc)	Results
Cell 3	39#	3.12	110	3.0	P
Cell 4	10#	3.11	110	3.0	P. Kallerine
Cell 4	11# 000	3.14 <sub>\st</sub> \d	110	3.0,	<b>P</b> . (10)
Cell 4	12#	3:11	110	3.0	P
Cell 4	13#	3.10	110	3.0	yto P
Suppleme - No fire or	- 48	formation:	, Tro	1/60 MA 1/201	o.,

7.3.8.1	TAB	LE: Vibration	RIVED CO	· ·	K St.	N/A
Sample N	0.	OCV before test (Vdc)	OCV after test (Vdc)	Mass before test (g)	Mass after test (g)	Results
6	.4	700.,	1 KK 65	18/20 -	4577	KIR 1001
<del></del>	斯呢100	<del></del>			. 6	XXX Techno
-XXXX	SCLU.	\tag{\tau_{td}}	XX	, //	) (b. ,	Littlest
Supplement	ary i	nformation:	H//		8	RIV



Report No.: DSP24080871-1	Clause Requirement + Test	120 02 100 2	Result - Remark	Verdic
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The state of the s	A CONTRACTOR OF THE PROPERTY O	18V	Repo	ort No.: DSP24080871-
	Alika co.	Hill Legan	16/100A	Hill is
	Hall the second of the second		15	z Williagh,

7.3.8.2	TAB	LE: Mechanical s	shock	Hill Co	mil 18 1001	N/A
Sample	No.	OCV before test (Vdc)	OCV after test (Vdc)	Mass before test (g)	Mass after test (g)	Results
- TV	, co.,	Hillies		g) <u></u>	##	
12 - 11 - 11 - 10 - 10 - 10 - 10 - 10 -	,	<u></u> 38t.	***********************************	<u></u>	<del></del>	10
=1/4/10		\$ co. , \( \frac{1}{2} \)	18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		411/1865	
Suppleme	ntary in	iformation:	HALK.	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1 Per	* Kill Chio

7.3.9 TABI	LE: Forced interna	Lebert circuit (co	Jan Maria	100	N/A
Sample No.	Chamber	OCV before	Particle	Maximum	Results
O.,	ambient T (°C)	test (Vdc)	location 1)	applied pressure (N)	#W
Ÿ.	Samples char	ged at charging	temperature uppe	er limit (°C)	1,40
<sub>L</sub> td	(1) XX (1)	<u></u>		######################################	alization.
@ CO.,	TI VILLES	THE 1001	#	<del></del>	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	220	K K Chino	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		<del></del>
	· · · ·	186 55 10 0 -	Alizar - 0. '		(12/2)
(R)		#kix	Milling 1003-	720	E THE CHIO
* Kill echio	Samples chai	ged at charging	temperature lowe	er limit (°C)	it this in
1457 E. 100		Hillippe	(12)	2) <del></del>	# 1
HAV-	= 1/1 / 1/2 00)	JRL	KAJIMSCHO	<sub>\t</sub> ò	
		<u> </u>	THE THE TOWN		
A1)			# 15	-W/W 100	RIK
720	***********************************	·-	<u>.</u>	7. 14 40	7,70
Supplementary i	nformation:	15 CO.		F6541.	\$ 1001 \$ 00.

D.2	TABLE: I	nternal AC resistanc	e for coin cells	\td (1)	P	
Sample	e no.	Ambient T (°C)	Store time (h)	Resistance Rac	(Ω) Results 1)	101 6,0
Cell 4	14# 1001	22.8	2.0	0.204	K Pichno	
Cell 4	15#	23:0	1.5	0.210	P	
Cell 4	l6#	© 22.9	2.1	0.208	P	
Supplemen	tary infor	mation:	, Je	- Milyno	140	×4.



2 10 20	40	×31 / A	rtoport ito.	. DOI Z-TOQUOTTI
	(b.,	IEC 62133-2	150 CO.,	Hill es
Clause Requirement	- Test	ERLY.	Result - Remark	Verdict

1,20	TABLE: Critical components information				P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1)</sup>
Cell	Ropla Elektronik Sp. 2 o. o	LIR1654	3.6V, 110mAh	IEC 62133- 2:2017/AM D1:2021	Tested with appliance
-Electrolyte	Shangdong Hairong Materials Technology Co., Ltd	HR-8180	LiPF <sub>6</sub> + EC+ EMC+ DMC+ VC	Hill string	MARINE 100
-Separator	Dongguan Xiami Materials Co., Ltd	16µm	PE, 16µm (T), Shutdown temperature: 130°C	b	
-Negative electrode	Shenzhen Hongwei Technology Co., Ltd	LIR1654	Graphite, CMC, SBR, Distilled Water, Conductive Additive	(J*d	<u> </u>
-Positive electrode	Shenzhen Hongwei Technology Co., Ltd	LIR1654	LiCoO <sub>2</sub> , PVDF, NMP, Conductive Additive	Mino John	#kik
-Cell Case	Shenzhen Hongwei Technology Co., Ltd	LIR1654	150µm (T), Steel		

Supplementary information:

<sup>&</sup>lt;sup>1)</sup> Provided evidence ensures the agreed level of compliance. See OD-CB2039.



# **Photos**

Model: LIR1654





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