Test Report issued under the responsibility of:

TÜVRheinland®

TEST REPORT
IEC 60086-4
Primary batteries
Part 4: Safety of lithium batteries

Report Number..... :	CN21YONE 001
Date of issue ..... :	2021-04-09
Total number of pages..... :	22 pages
Name of Testing Laboratory preparing the Report ..... :	**Shenzhen NCT Testing Technology Co., Ltd**
Applicant's name..... :	**EVE Energy Co., Ltd.**
Address..... :	No. 38, Hui Feng 7th Road, Zhongkai Hi-Tech Zone, Huizhou, Guangdong, P.R. China
Test specification:	
Standard..... :	IEC 60086-4: 2019
Test procedure..... :	CB Scheme
Non-standard test method ..... :	N/A
Test Report Form No. ..... :	IEC60086_4C
Test Report Form(s) Originator.... :	DEKRA
Master TRF ..... :	Dated 2019-06-19

Copyright © 2019 IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE System). All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.

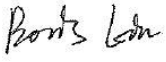
This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

General disclaimer:

The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the Issuing CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.

Test item description.....:	Lithium Battery
Trade Mark.....:	
Manufacturer.....:	Same as applicant
Model/Type reference.....:	ER26500
Ratings.....:	3.6V, 8500mAh

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):

☒	**CB Testing Laboratory:**	**Shenzhen NCT Testing Technology Co., Ltd**	
Testing location/ address.....:		1&4/ F, No. B Building, Mianshang Younger Pioneer Park, Hangcheng Road, Gushu Xixiang Street, Baoan District, Shenzhen, China	
Tested by (name, function, signature).....:		Vicky Kuang (Project Engineer)	
Approved by (name, function, signature)..:		Boris Lin (Reviewer)	
☐	**Testing procedure: CTF Stage 1:**		
Testing location/ address.....:			
Tested by (name, function, signature).....:			
Approved by (name, function, signature)..:			
☐	**Testing procedure: CTF Stage 2:**		
Testing location/ address.....:			
Tested by (name + signature).....:			
Witnessed by (name, function, signature).:			
Approved by (name, function, signature)..:			
☐	**Testing procedure: CTF Stage 3:**		
☐	**Testing procedure: CTF Stage 4:**		
Testing location/ address.....:			
Tested by (name, function, signature).....:			
Witnessed by (name, function, signature).:			
Approved by (name, function, signature)..:			
Supervised by (name, function, signature):			

List of Attachments (including a total number of pages in each attachment):
Attachment 1: Photo Documentation (2 pages)

Summary of testing:

Tests performed (name of test and test clause):	**Testing location:**
Clause 6.4.1 Test A: Altitude; Clause 6.4.2 Test B: Thermal cycling; Clause 6.4.3 Test C: Vibration; Clause 6.4.4 Test D: Shock; Clause 6.5.1 Test E: External short-circuit; Clause 6.5.2 Test F: Impact; Clause 6.5.4 Test H: Forced discharge; Clause 6.5.5 Test I: Abnormal charging; Clause 6.5.6 Test J: Free fall; Clause 6.5.7 Test K: Thermal abuse.	**Shenzhen NCT Testing Technology Co., Ltd** 1&4/F, No. B Building, Mianshang Younger Pioneer Park, Hangcheng Road, Gushu Xixiang Street, Baoan District, Shenzhen, China

Summary of compliance with National Differences (List of countries addressed):
N/A

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.



Date code:
JAN 21 0196
"21" means year, for example "21" represents "2021".
"JAN" means month.

Test item particulars.....:	
Classification of installation and use.....:	For Built-in
Supply Connection.....:	DC Contact
.....:	Approx. 50.5g
Possible test case verdicts:	
- test case does not apply to the test object.....:	N/A
- test object does meet the requirement.....:	P (Pass)
- test object does not meet the requirement.....:	F (Fail)
Testing.....:	
Date of receipt of test item.....:	2021-03-01
Date (s) of performance of tests.....:	2021-03-01 to 2021-03-24
General remarks:	
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. **Throughout this report a ☐ comma / ☒ point is used as the decimal separator.**	
Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided.....:	☐ **Yes** ☒ **Not applicable**
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies).....:	Same as applicant

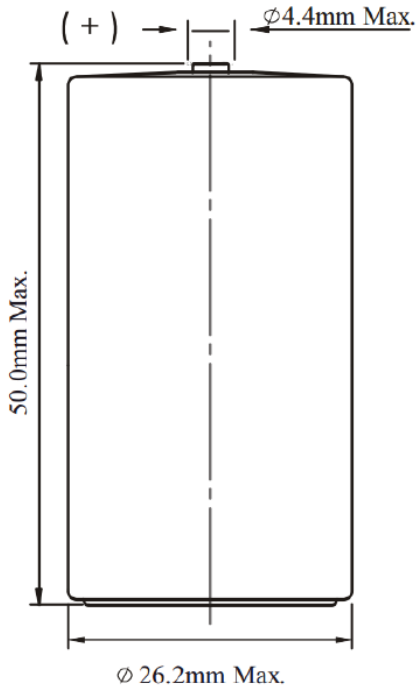
General product information:

This product is a built-in Li/$SOCl_2$ Primary Battery, without any protective circuit.

The main features of the Battery are shown as below:

Model	Nominal capacity	Nominal voltage	Maximum continuous discharge current	Cut-off Voltage
ER26500	8500mAh	3.6V	150mA	2.0V

Construction:



Cell

Circuit diagram:

None.

IEC 60086-4			
Clause	Requirement + Test	Result - Remark	Verdict
4	**REQUIREMENTS FOR SAFETY**		**P**
4.1	**Design**		P
	a) Abnormal temperature rise above the critical value prevented		P
	b) Temperature increases in the battery controlled		P
	c) Lithium Thionyl chloride Cells and batteries designed to relieve excessive internal pressure or to preclude a violent rupture under conditions of transport, intended use and reasonably foreseeable misuse	Pressure relieving device exists on top of the battery.	P
4.2	**Quality plan**		P
	Manufacturer prepared and implemented a quality plan defining the procedures for the inspection of materials, components, cells and batteries during the course of manufacture, to be applied to the total process of producing a specific type of battery	Complied. ISO 9001: 2015 certificate provided.	P
	Manufactures understood their process capabilities and instituted the necessary process controls as they relate to product safety		P
5	**TYPE TESTING AND SAMPLING**		P
5.1	**Validity of testing**		P
5.2	**Test samples**		P
6	**TESTING AND REQUIREMENTS**		P
6.1	**General**	Complied.	P
6.1.1	Test application matrix	(See 6.2)	P
	s: cell or single cell battery ……..……..……..……..:	Single cell battery only.	P
	m: multi cell battery ……..……..……..……..……...:		N/A
6.1.3	Ambient temperature (°C) …… :	20°C ± 5°C.	P
6.1.4	Parameter measurement tolerances		P
6.1.5	Predischarge		P
6.1.6	Additional cells		P
6.2	**Evaluation of test criteria**		P
6.2.1	Short-circuit		P
6.2.2	Excessive temperature rise		P
6.2.3	Leakage		P
6.2.4	Venting		P
6.2.5	Fire		P
6.2.6	Rupture		P
6.2.7	Explosion		P

IEC 60086-4			
Clause	Requirement + Test	Result - Remark	Verdict
6.3	**Tests and requirements – Overview**	(See table 4 in the standard)	P
6.4	**Tests for intended use**		P
6.4.1	Test A: Altitude ……:	(See appended Table 1 and Table 6.4.1)	P
6.4.2	Test B: Thermal cycling ……:	(See appended Table 1 and Table 6.4.2)	P
6.4.3	Test C: Vibration ……:	(See appended Table 1 and Table 6.4.3)	P
6.4.4	Test D: Shock ……:	(See appended Table 1 and Table 6.4.4)	P
6.5	**Tests for reasonably foreseeable misuse**		P
6.5.1	Test E: External short-circuit ……:	(See appended Table 1 and Table 6.5.1)	P
6.5.2	Test F: Impact ……:	(See appended Table 1 and Table 6.5.2)	P
6.5.3	Test G: Crush ……:	(See appended Table 1 and Table 6.5.3)	N/A
6.5.4	Test H: Forced discharge ……:	(See appended Table 1 and Table 6.5.4)	P
6.5.5	Test I: Abnormal charging ……:	(See appended Table 1 and Table 6.5.5)	P
6.5.6	Test J: Free fall ……:	(See appended Table 1 and Table 6.5.6)	P
6.5.7	Test K: Thermal abuse ……:	(See appended Table 1 and Table 6.5.7)	P
6.5.8	Test L: Incorrect installation ……:	Not CR17345, CR15H270 and similar type batteries of a spiral construction that could be installed incorrectly and charged.	N/A
6.5.9	Test M: Overdischarge ……:	Not CR17345, CR15H270 and similar type batteries of a spiral construction that could be installed incorrectly and charged.	N/A
6.6	**Information given in the relevant specification**		P
	a) Predischarge current or resistive load and end-point voltage specified by the manufacturer……:	Discharging current: 60mA; End point voltage: 2.0V	P
	b) Method to measure the energy of an explosion, if any ……:		N/A
	c) Shape: prismatic, flexible, coin or cylindrical Diameter: less than 18 mm or not less than 18 mm ……:	Cylindrical cell, Diameter not less than 18 mm.	P
	d) Maximum continuous discharge current specified by the manufacturer for test H.……:	Max. continuous discharge current: 150mA.	P

IEC 60086-4			
Clause	Requirement + Test	Result - Remark	Verdict
	e) Rated capacity specified by the manufacturer for test H……:	Rated Capacity: 8500mAh.	P
	f) Abnormal charging current declared by the manufacturer for test I ……:	15mA as specified by manufacturer. In order to expedite the test, The abnormal charging current was adjusted to 50mA	P
	g) Normal reverse current declared by the manufacturer which applied to the battery during its operating life……:		N/A
7	**INFORMATION FOR SAFETY**		**P**
7.1	**Safety precautions during design of equipment**		**P**
7.1.1	General		P
7.1.2	Charge protection	Considered in end product.	N/A
7.1.3	Parallel connection	Considered in end product.	N/A
7.2	**Precautions during handling of batteries**	Information for safety mentioned in manufacturer's specifications.	P
7.3	**Packaging**		P
7.4	**Handling of battery cartons**		N/A
7.5	**Transport**		P
7.5.1	General		P
7.5.2	Air transport		P
7.5.3	Sea transport		P
7.5.4	Land transport		P
7.6	**Display and storage**	Information for display and storage mentioned in manufacturer's specifications.	P
7.7	**Disposal**	Information for disposal instructions mentioned in manufacturer's specifications.	P
8	**INSTRUCTIONS FOR USE**	Information for use mentioned in manufacturer's specifications.	P
9	**MARKING AND PACKAGING**		P
9.1	**General**	See the label.	P
9.2	**Swallowable batteries**		N/A
9.3	**Safety pictograms**		P
ANNEX A	**(INFORMATIVE) GUIDELINES FOR THE ACHIEVEMENT OF SAFETY OF LITHIUM BATTERIES**		N/A

IEC 60086-4			
Clause	Requirement + Test	Result - Remark	Verdict
ANNEX B	**(INFORMATIVE) GUIDELINES FOR DESIGNERS OF EQUIPMENT USING LITHIUM BATTERIES**		N/A
ANNEX C	**(INFORMATIVE) ADDITIONAL INFORMATION ON DISPLAY AND STORAGE**		N/A
ANNEX D	**(INFORMATIVE) SAFETY PICTOGRAMS**		N/A
D.1	**General**		N/A
D.2	**Pictograms**		N/A
D.3	**Instruction for use**		N/A
ANNEX E	**(NORMATIVE) CHILD RESISTANT PACKAGING OF COIN CELLS**		N/A
E.1	**General**		N/A
E.2	**Applicability**		N/A
E.3	**Packaging tests**		N/A
E.3.1	General		N/A
E.3.2	Test items		N/A
E.3.3	Test procedure		N/A
E.3.4	Criteria		N/A
ANNEX F	**(INFORMATIVE) USE OF THE KEEP OUT OF REACH OF CHILDREN SAFETY SIGN**		N/A
F.1	**General**		N/A
F.2	**Safety sign**		N/A
F.3	**Best practices for marking the packaging**		N/A
F.4	**Best practices for marking the cell**		N/A

	TABLE: Critical components information				P
Object / part No.	**Manufacturer / trademark**	**Type / model**	**Technical data**	**Standard**	**Mark(s) of conformity[1)]**
Battery	EVE Energy Co., Ltd.	ER26500	3.6V, 8500mAh	IEC 60086-4: 2019	Tested with appliance
-Positive electrode	EVE Energy Co., Ltd.	DK-2	50% Compressed, Thionyl chloride	--	--
-Negative electrode	M chemicals co., Ltd.	1.8*34mm	Mater lithium. Li content≥99.9%	--	--
-Separator	HS Co., Ltd.	0.18*43mm	Glass fibre	--	--
-Electrolyte	EVE Energy Co., Ltd.	$SOCl_2$	content≥99.60%, Non-aqueous inorganic, $SOCl_2$	--	--
Supplementary information: [1)] Provided evidence ensures the agreed level of compliance. See OD-CB2039.					

	TABLE 1 (clause 6.4.1 – 6.5.9)				
Tests	**Cell / battery type**	**Discharge state**	**Number of test sample**	**Test result**	**Verdict**
A to D	Cells and single cell batteries	Undischarged	10	NL, NV, NC, NR, NE, NF	P
		Fully discharged	10	NL, NV, NC, NR, NE, NF	P
	Multi-cell batteries	Undischarged	4		N/A
		Fully discharged	4		N/A
E	Cells and single cell batteries	Undischarged	10	NT, NR, NE, NF	P
		Fully discharged	10	NT, NR, NE, NF	P
	Multi-cell batteries	Undischarged	4		N/A
		Fully discharged	4		N/A
F	Cells and single cell batteries	Undischarged	5		N/A
		Fully discharged	5		N/A
	Multi-cell batteries	Undischarged	5 component cells		N/A
		Fully discharged	5 component cells		N/A
G	Cells and single cell batteries	Undischarged	5	NT, NE, NF	P
		Fully discharged	5	NT, NE, NF	P
	Multi-cell batteries	Undischarged	5 component cells		N/A
		Fully discharged	5 component cells		N/A
H	Cells and single cell batteries	Fully discharged	10	NE, NF	P
	Multi-cell batteries	Fully discharged	10 component cells		N/A
I	Cells and single cell batteries	Undischarged	5	NE, NF	P
	Multi-cell batteries	Undischarged	5		N/A
J	Cells and single cell batteries	Undischarged	5	NV, NE, NF	P
	Multi-cell batteries	Undischarged	5		N/A
K	Cells and single cell batteries	Undischarged	5	NE, NF	P
	Multi-cell batteries	Undischarged	5		N/A
L	Cells and single cell batteries	Undischarged	20		N/A
M	Cells and single cell batteries	50 % predischarged	20		N/A
		75 % predischarged	20		N/A

Supplementary information:
NC: No short-circuit
NE: No explosion
NF: No fire
NL: No leakage
NR: No rupture
NT: No excessive temperature rise
NV: No venting

6.4.1	**TABLE: Test A: Altitude** (Undischarged)			P
Battery No.	Before test		After test	
	battery voltage (V)	battery weight (g)	battery voltage (V)	battery weight (g)
NCT21002076-C1#	3.670	50.446	3.669	50.444
NCT21002076-C2#	3.671	50.449	3.669	50.446
NCT21002076-C3#	3.672	50.434	3.670	50.432
NCT21002076-C4#	3.671	50.539	3.668	50.537
NCT21002076-C5#	3.672	50.581	3.670	50.578
NCT21002076-C6#	3.671	50.468	3.670	50.466
NCT21002076-C7#	3.670	50.471	3.667	50.468
NCT21002076-C8#	3.672	50.485	3.670	50.483
NCT21002076-C9#	3.672	50.558	3.671	50.556
NCT21002076-C10#	3.672	50.385	3.669	50.382
Supplementary information: - No leakage, no venting, no short-circuit, no rupture, no explosion and no fire.				
6.4.1	**TABLE: Test A: Altitude** (Fully discharged)			P
Battery No.	Before test		After test	
	battery voltage (V)	battery weight (g)	battery voltage (V)	battery weight (g)
NCT21002076-C11#	2.453	50.276	2.452	50.274
NCT21002076-C12#	2.477	50.352	2.476	50.350
NCT21002076-C13#	2.543	50.412	2.543	50.409
NCT21002076-C14#	2.529	50.495	2.528	50.493
NCT21002076-C15#	2.512	50.376	2.512	50.373
NCT21002076-C16#	2.474	50.396	2.474	50.393
NCT21002076-C17#	2.506	50.312	2.505	50.310
NCT21002076-C18#	2.444	50.314	2.443	50.311
NCT21002076-C19#	2.434	50.279	2.434	50.276
NCT21002076-C20#	2.414	50.337	2.413	50.335
Supplementary information: - No leakage, no venting, no short-circuit, no rupture, no explosion and no fire.				

6.4.2	**TABLE: Test B: Thermal cycling** (Undischarged)			P
Battery No.	Before test		After test	
	battery voltage (V)	battery weight (g)	battery voltage (V)	battery weight (g)
NCT21002076-C1#	3.669	50.444	3.654	50.437
NCT21002076-C2#	3.669	50.446	3.652	50.438
NCT21002076-C3#	3.670	50.432	3.656	50.424
NCT21002076-C4#	3.668	50.537	3.655	50.530
NCT21002076-C5#	3.670	50.578	3.656	50.570
NCT21002076-C6#	3.670	50.466	3.655	50.459
NCT21002076-C7#	3.667	50.468	3.655	50.460
NCT21002076-C8#	3.670	50.483	3.655	50.475
NCT21002076-C9#	3.671	50.556	3.657	50.549
NCT21002076-C10#	3.669	50.382	3.654	50.374
Supplementary information: - No leakage, no venting, no short-circuit, no rupture, no explosion and no fire.				

6.4.2	**TABLE: Test B: Thermal cycling** (Fully discharged)			P
Battery No.	Before test		After test	
	battery voltage (V)	battery weight (g)	battery voltage (V)	battery weight (g)
NCT21002076-C11#	2.452	50.274	2.451	50.267
NCT21002076-C12#	2.476	50.350	2.475	50.341
NCT21002076-C13#	2.543	50.409	2.542	50.402
NCT21002076-C14#	2.528	50.493	2.528	50.484
NCT21002076-C15#	2.512	50.373	2.510	50.365
NCT21002076-C16#	2.474	50.393	2.474	50.386
NCT21002076-C17#	2.505	50.310	2.503	50.302
NCT21002076-C18#	2.443	50.311	2.442	50.304
NCT21002076-C19#	2.434	50.276	2.434	50.268
NCT21002076-C20#	2.413	50.335	2.412	50.327
Supplementary information: - No leakage, no venting, no short-circuit, no rupture, no explosion and no fire.				

6.4.3	**TABLE: Test C: Vibration** (Undischarged)			P
Battery No.	Before test		After test	
	battery voltage (V)	battery weight (g)	battery voltage (V)	battery weight (g)
NCT21002076-C1#	3.654	50.437	3.652	50.435
NCT21002076-C2#	3.652	50.438	3.651	50.436
NCT21002076-C3#	3.656	50.424	3.653	50.421
NCT21002076-C4#	3.655	50.530	3.653	50.528
NCT21002076-C5#	3.656	50.570	3.654	50.568
NCT21002076-C6#	3.655	50.459	3.653	50.456
NCT21002076-C7#	3.655	50.460	3.652	50.458
NCT21002076-C8#	3.655	50.475	3.653	50.472
NCT21002076-C9#	3.657	50.549	3.656	50.546
NCT21002076-C10#	3.654	50.374	3.653	50.373
Supplementary information: - No leakage, no venting, no short-circuit, no rupture, no explosion and no fire.				
6.4.3	**TABLE: Test C: Vibration** (Fully discharged)			P
Battery No.	Before test		After test	
	battery voltage (V)	battery weight (g)	battery voltage (V)	battery weight (g)
NCT21002076-C11#	2.451	50.267	2.450	50.265
NCT21002076-C12#	2.475	50.341	2.475	50.340
NCT21002076-C13#	2.542	50.402	2.540	50.400
NCT21002076-C14#	2.528	50.484	2.527	50.481
NCT21002076-C15#	2.510	50.365	2.509	50.364
NCT21002076-C16#	2.474	50.386	2.472	50.383
NCT21002076-C17#	2.503	50.302	2.500	50.300
NCT21002076-C18#	2.442	50.304	2.441	50.303
NCT21002076-C19#	2.434	50.268	2.432	50.265
NCT21002076-C20#	2.412	50.327	2.412	50.325
Supplementary information: - No leakage, no venting, no short-circuit, no rupture, no explosion and no fire.				

6.4.4	**TABLE: Test D: Shock** (Undischarged)			P
Battery No.	Before test		After test	
	battery voltage (V)	battery weight (g)	battery voltage (V)	battery weight (g)
NCT21002076-C1#	3.652	50.435	3.650	50.434
NCT21002076-C2#	3.651	50.436	3.649	50.433
NCT21002076-C3#	3.653	50.421	3.650	50.419
NCT21002076-C4#	3.653	50.528	3.651	50.525
NCT21002076-C5#	3.654	50.568	3.652	50.567
NCT21002076-C6#	3.653	50.456	3.652	50.454
NCT21002076-C7#	3.652	50.458	3.650	50.456
NCT21002076-C8#	3.653	50.472	3.652	50.470
NCT21002076-C9#	3.656	50.546	3.654	50.543
NCT21002076-C10#	3.653	50.373	3.652	50.371
Supplementary information: - No leakage, no venting, no short-circuit, no rupture, no explosion and no fire.				
6.4.4	**TABLE: Test D: Shock** (Fully discharged)			P
Battery No.	Before test		After test	
	battery voltage (V)	battery weight (g)	battery voltage (V)	battery weight (g)
NCT21002076-C11#	2.450	50.265	2.450	50.262
NCT21002076-C12#	2.475	50.340	2.474	50.339
NCT21002076-C13#	2.540	50.400	2.540	50.398
NCT21002076-C14#	2.527	50.481	2.526	50.478
NCT21002076-C15#	2.509	50.364	2.508	50.362
NCT21002076-C16#	2.472	50.383	2.472	50.382
NCT21002076-C17#	2.500	50.300	2.498	50.298
NCT21002076-C18#	2.441	50.303	2.441	50.300
NCT21002076-C19#	2.432	50.265	2.431	50.262
NCT21002076-C20#	2.412	50.325	2.410	50.323
Supplementary information: - No leakage, no venting, no short-circuit, no rupture, no explosion and no fire.				

6.5.1	**TABLE: Test E: External short-circuit** (Undischarged)				P
Battery No.	Ambient, (°C)	OCV at start of test, (Vdc)	Resistance of circuit, (mΩ)	Maximum case temperature ~~rise~~ ΔT, (°C)	Results
NCT21002076-C1#	55.1	3.650	80.3	107.9	P
NCT21002076-C2#	55.1	3.649	82.1	104.3	P
NCT21002076-C3#	55.1	3.650	80.8	87.6	P
NCT21002076-C4#	55.1	3.651	80.4	88.9	P
NCT21002076-C5#	55.1	3.652	81.4	97.3	P
NCT21002076-C6#	55.1	3.652	81.8	105.4	P
NCT21002076-C7#	55.1	3.650	80.4	94.3	P
NCT21002076-C8#	55.1	3.652	81.3	95.5	P
NCT21002076-C9#	55.1	3.654	80.9	106.4	P
NCT21002076-C10#	55.1	3.652	81.7	98.7	P
Supplementary information: - No excessive temperature rise (>170ºC), no rupture, no explosion and no fire.					
6.5.1	**TABLE: Test E: External short-circuit** (Fully discharged)				P
Battery No.	Ambient, (°C)	OCV at start of test, (Vdc)	Resistance of circuit, (mΩ)	Maximum case temperature ~~rise~~ ΔT, (°C)	Results
NCT21002076-C11#	55.1	2.450	81.6	55.2	P
NCT21002076-C12#	55.1	2.474	80.3	55.3	P
NCT21002076-C13#	55.1	2.540	80.7	55.3	P
NCT21002076-C14#	55.1	2.526	80.4	55.2	P
NCT21002076-C15#	55.1	2.508	80.2	55.3	P
NCT21002076-C16#	55.1	2.472	81.6	55.4	P
NCT21002076-C17#	55.1	2.504	81.8	55.2	P
NCT21002076-C18#	55.1	2.441	81.4	55.1	P
NCT21002076-C19#	55.1	2.431	80.8	55.3	P
NCT21002076-C20#	55.1	2.410	80.9	55.2	P
Supplementary information: - No excessive temperature rise (>170ºC), no rupture, no explosion and no fire.					

6.5.2	**TABLE: Test F: Impact** (Undischarged)			P
Battery No.	Ambient, (°C)	OCV at start of test, (Vdc)	Maximum case temperature ~~rise ΔT~~, (°C)	Results
NCT21002076-C21#	23.5	3.672	23.7	P
NCT21002076-C22#	23.5	3.670	23.8	P
NCT21002076-C23#	23.5	3.671	23.7	P
NCT21002076-C24#	23.5	3.672	23.6	P
NCT21002076-C25#	23.5	3.671	24.0	P
Supplementary information: - No excessive temperature rise (>170ºC), no explosion and no fire.				
6.5.2	**TABLE: Test F: Impact** (Fully discharged)			P
Battery No.	Ambient, (°C)	OCV at start of test, (Vdc)	Maximum case temperature ~~rise ΔT~~, (°C)	Results
NCT21002076-C26#	23.5	2.446	24.1	P
NCT21002076-C27#	23.5	2.472	23.6	P
NCT21002076-C28#	23.5	2.513	23.8	P
NCT21002076-C29#	23.5	2.489	23.9	P
NCT21002076-C30#	23.5	2.504	24.0	P
Supplementary information: - No excessive temperature rise (>170ºC), no explosion and no fire.				

6.5.3	**TABLE: Test G: Crush** (Undischarged)			N/A
Battery No.	Ambient, (°C)	OCV at start of test, (Vdc)	Maximum case temperature ~~rise ΔT~~, (°C)	Results
Supplementary information: - No excessive temperature rise (>170ºC), no explosion and no fire.				

6.5.3	**TABLE: Test G: Crush** (Fully discharged)			N/A
Battery No.	Ambient, (°C)	OCV at start of test, (Vdc)	Maximum case temperature ~~rise ΔT~~, (°C)	Results

Supplementary information:
- No excessive temperature rise (>170ºC), no explosion and no fire.

6.5.4	**TABLE: Test H: Forced discharge** (Fully discharged)			P
Battery No.	OCV at start of test, (Vdc)	Max. discharge current, (A)	Test duration, (Hours)	Results
NCT21002076-C31#	2.438	0.15	56.7	P
NCT21002076-C32#	2.453	0.15	56.7	P
NCT21002076-C33#	2.476	0.15	56.7	P
NCT21002076-C34#	2.495	0.15	56.7	P
NCT21002076-C35#	2.517	0.15	56.7	P
NCT21002076-C36#	2.458	0.15	56.7	P
NCT21002076-C37#	2.513	0.15	56.7	P
NCT21002076-C38#	2.524	0.15	56.7	P
NCT21002076-C39#	2.478	0.15	56.7	P
NCT21002076-C40#	2.445	0.15	56.7	P

Supplementary information:
- No explosion and no fire.

6.5.5	**TABLE: Test I: Abnormal charging** (Undischarged)			P
Battery No.	OCV at start of test, (Vdc)	Max. charge current, (A)	Test duration, (Hours)	Results
NCT21002076-C41#	3.671	0.05*3=0.15	141.7	P
NCT21002076-C42#	3.670	0.05*3=0.15	141.7	P
NCT21002076-C43#	3.672	0.05*3=0.15	141.7	P
NCT21002076-C44#	3.672	0.05*3=0.15	141.7	P
NCT21002076-C45#	3.671	0.05*3=0.15	141.7	P

Supplementary information:
- No explosion and no fire.

Remark:

In order to expedite the test, The abnormal charging current was adjusted to 50mA

6.5.6	**TABLE: Test J: Free fall** (Undischarged)		P
Battery No.	Before test	After test	Test results
	battery voltage (V)	battery voltage (V)	
NCT21002076-C46#	3.671	3.671	P
NCT21002076-C47#	3.672	3.671	P
NCT21002076-C48#	3.671	3.671	P
NCT21002076-C49#	3.670	3.670	P
NCT21002076-C50#	3.671	3.671	P
Supplementary information: - No venting, no explosion and no fire.			

6.5.7	**TABLE: Test K: Thermal abuse** (Undischarged)		P
Battery No.	Before test	After test	Test results
	battery voltage (V)	battery voltage (V)	
NCT21002076-C51#	3.670	3.670	P
NCT21002076-C52#	3.671	3.670	P
NCT21002076-C53#	3.671	3.671	P
NCT21002076-C54#	3.671	3.670	P
NCT21002076-C55#	3.672	3.671	P
Supplementary information: - No explosion and no fire.			

6.5.8	**TABLE: Test L: Incorrect installation** (Undischarged)	N/A
Battery No.	OCV of reversed cell, (Vdc)	Test results
Supplementary information: - No explosion and no fire.		

6.5.9	**TABLE: Test M: Overdischarge (Predischarged 50%)**			N/A
Battery No.	OCV prior to discharging, (Vdc)	Maximum discharge current, (A)	Time for discharging, (hours)	Results

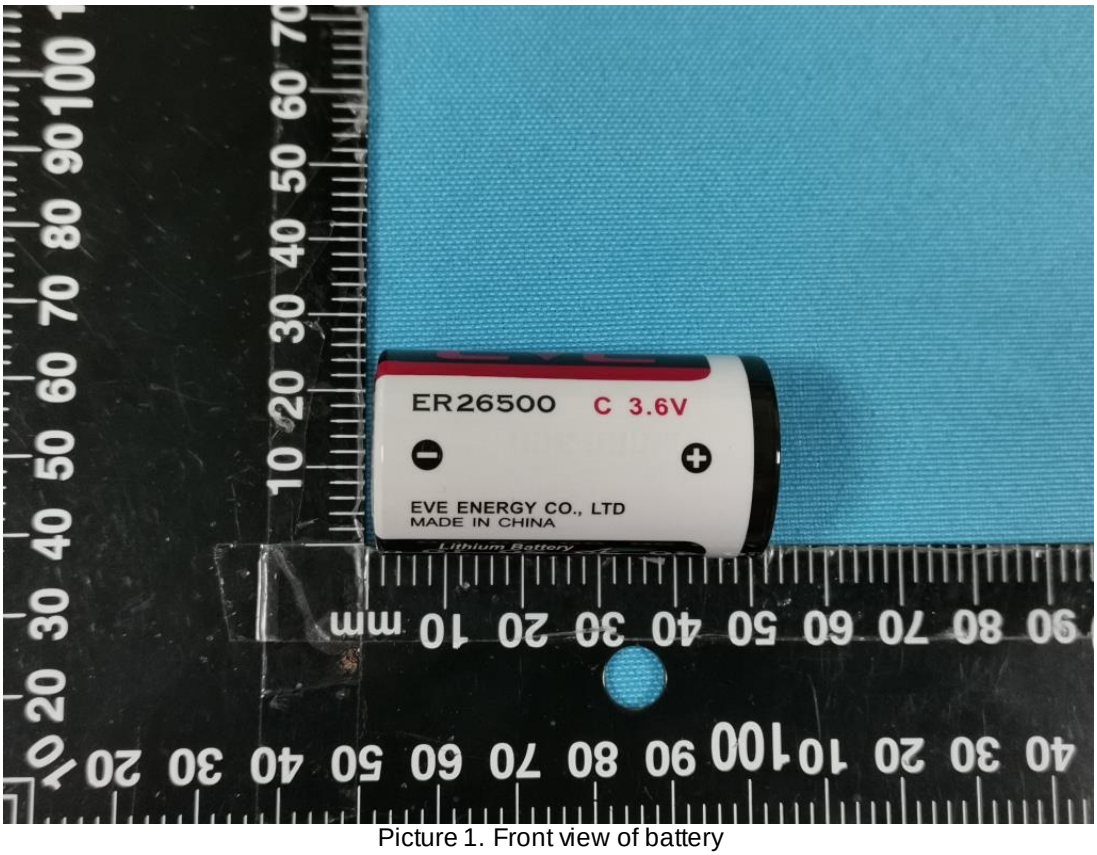
6.5.9	**TABLE: Test M: Overdischarge (Predischarged 75%)**			
Battery No.	OCV prior to discharging, (Vdc)	Maximum discharge current, (A)	Time for discharging, (hours)	Results
Supplementary information: - No explosion and no fire.				

--End of Report--

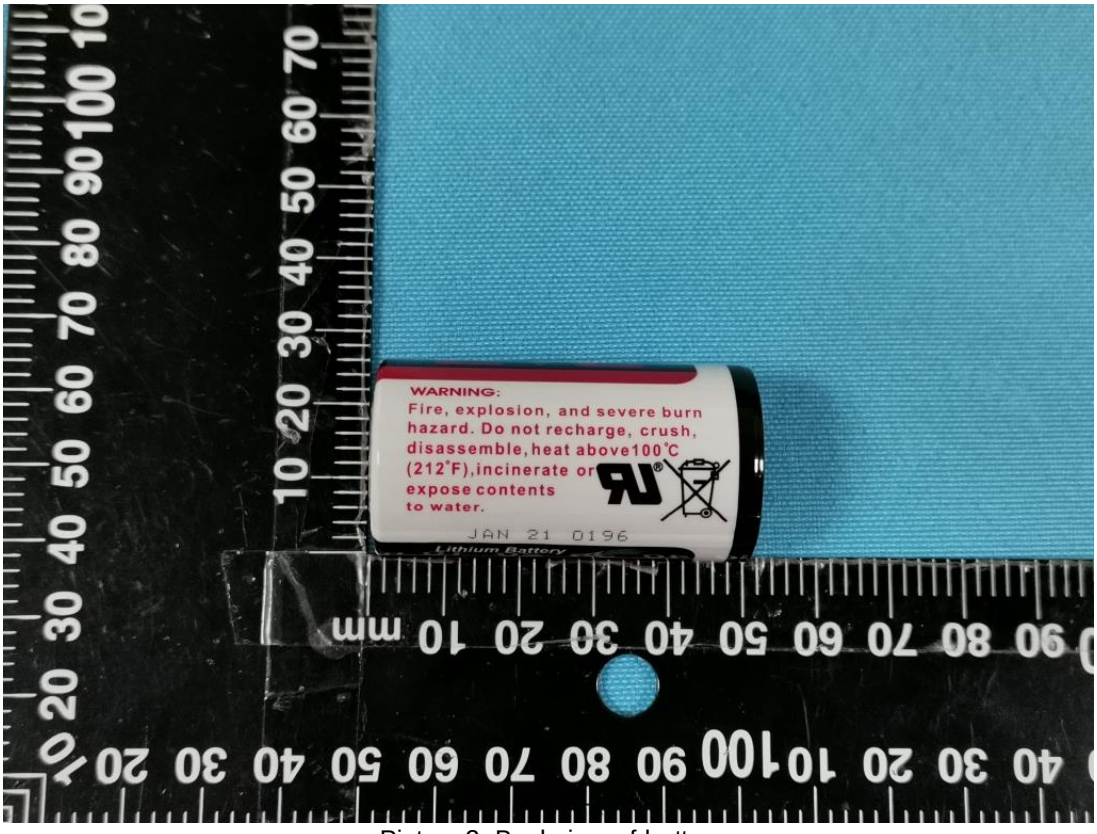
Attachment 1 Photo Documentation

Product: Lithium Battery

Type Designation: ER26500



Picture 1. Front view of battery

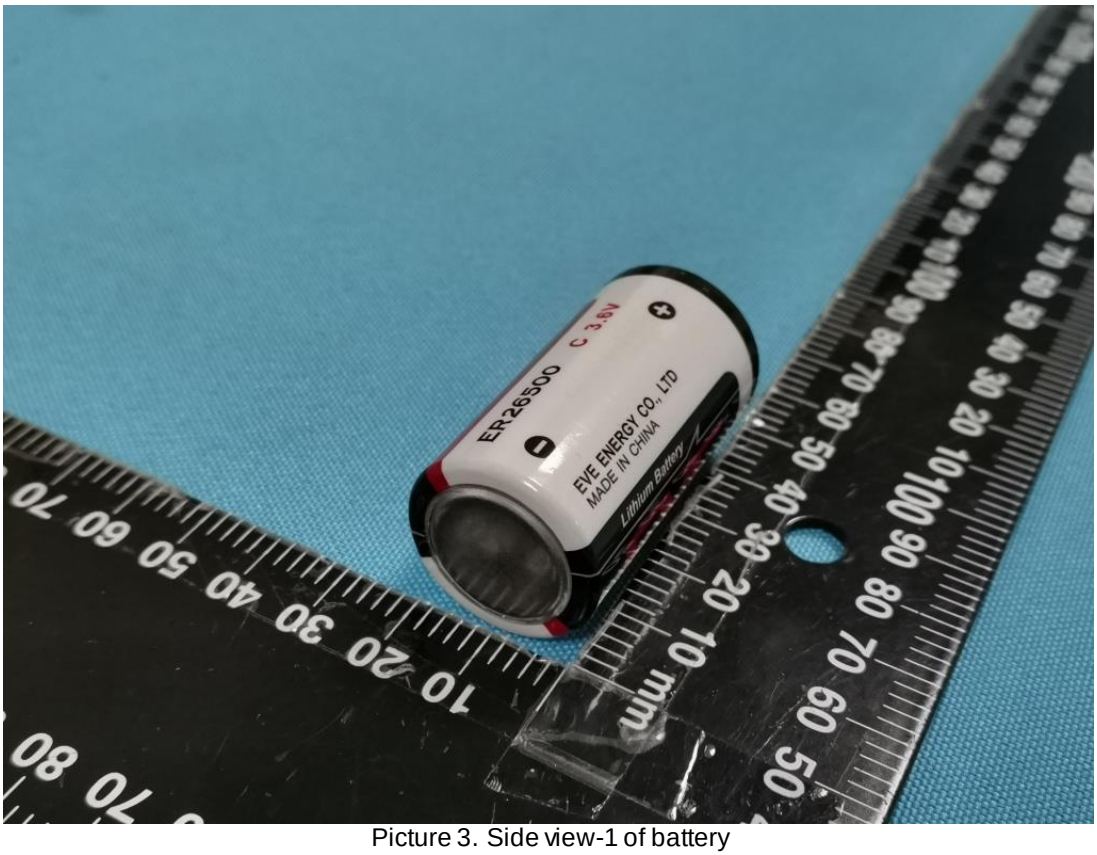


Picture 2. Back view of battery

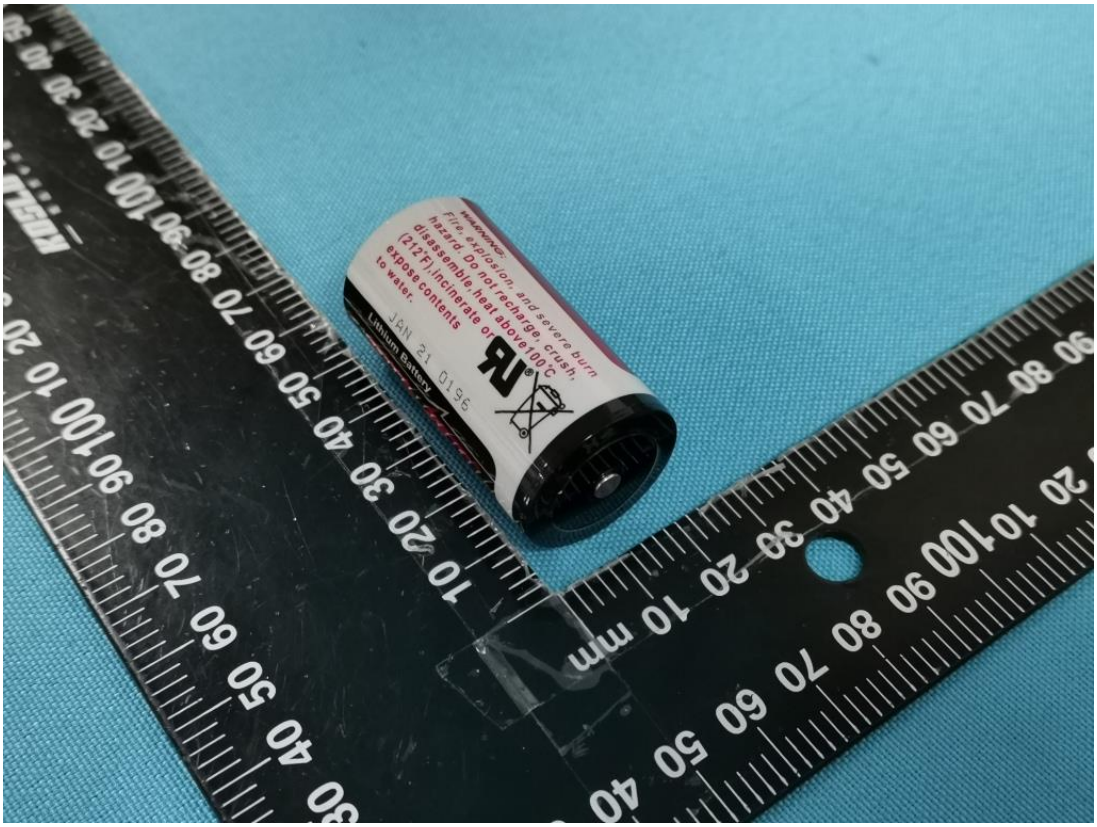
Attachment 1 Photo Documentation

Product: Lithium Battery

Type Designation: ER26500



Picture 3. Side view-1 of battery



Picture 4. Side view-2 of battery