Ref. Certif. No.

JPTUV-116819

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product	Lithium-thionyl chloride battery
Name and address of the applicant	EVE Energy Co., Ltd. No. 38, Hui Feng 7th Road Zhongkai Hi-Tech Zone, Huizhou, Guangdong, P.R. China
Name and address of the manufacturer	EVE Energy Co., Ltd. No. 38, Hui Feng 7th Road Zhongkai Hi-Tech Zone, Huizhou, Guangdong, P.R. China
Name and address of the factory	EVE Energy Co., Ltd. No. 38, Hui Feng 7th Road Zhongkai Hi-Tech Zone, Huizhou, Guangdong, P.R. China
Ratings and principal characteristics	DC 3.6V, 8.5Ah
Trademark (if any)	EVE
Customer's Testing Facility (CTF) Stage used	N/A
Model / Type Ref.	ER26500
Additional information (if necessary may also be reported on page 2)	
A sample of the product was tested and found to be in conformity with	IEC 60086-4:2019 See Test Report for National Differences
As shown in the Test Report Ref. No. which forms part of this Certificate	CN200B43 001

This CB Test Certificate is issued by the National Certification Body

TÜVRheinland®

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Global Technology Assessment Center
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Date: 2020-12-17

Signature: A. Chen

10/0861 CB 06/20v9rk

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Test Report issued under the responsibility of:

TÜVRheinland®

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

Report Number. ..... :	**CN200B43 001**
Date of issue ..... :	2020-12-16
Total number of pages ..... :	21 pages
Name of Testing Laboratory preparing the Report ..... :	**Guangzhou MCM Certification & Testing 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

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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-thionyl chloride battery
Trade Mark ..... :	EVE
Manufacturer..... :	Same as applicant
Model/Type reference ..... :	ER26500
Ratings ..... :	DC 3.6V, 8.5Ah

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):			
☒	**CB Testing Laboratory:**	Guangzhou MCM Certification & Testing Co., Ltd.	
Testing location/ address ..... :		1 F No.13, Zhong San Section, Shi Guang Road, Zhong Cun Street, Panyu District, Guangzhou, Guangdong CHINA	
Tested by (name, function, signature) ..... :		Owen Huang (Engineer)	Owen Huang
Approved by (name, function, signature).. :		Liang Hongcheng (Reviewer)	Liangzhongcheng
☐	**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:**
6.4.1 Test A: Altitude 6.4.2 Test B: Thermal cycling 6.4.3 Test C: Vibration 6.4.4 Test D: Shock 6.5.1 Test E: External short-circuit 6.5.2 Test F: Impact 6.5.4 Test H: Forced discharge 6.5.5 Test I: Abnormal charging 6.5.6 Test J: Free fall 6.5.7 Test K: Thermal abuse	**Guangzhou MCM Certification & Testing Co., Ltd.** 1 F No.13, Zhong San Section, Shi Guang Road, Zhong Cun Street, Panyu District, Guangzhou, Guangdong CHINA

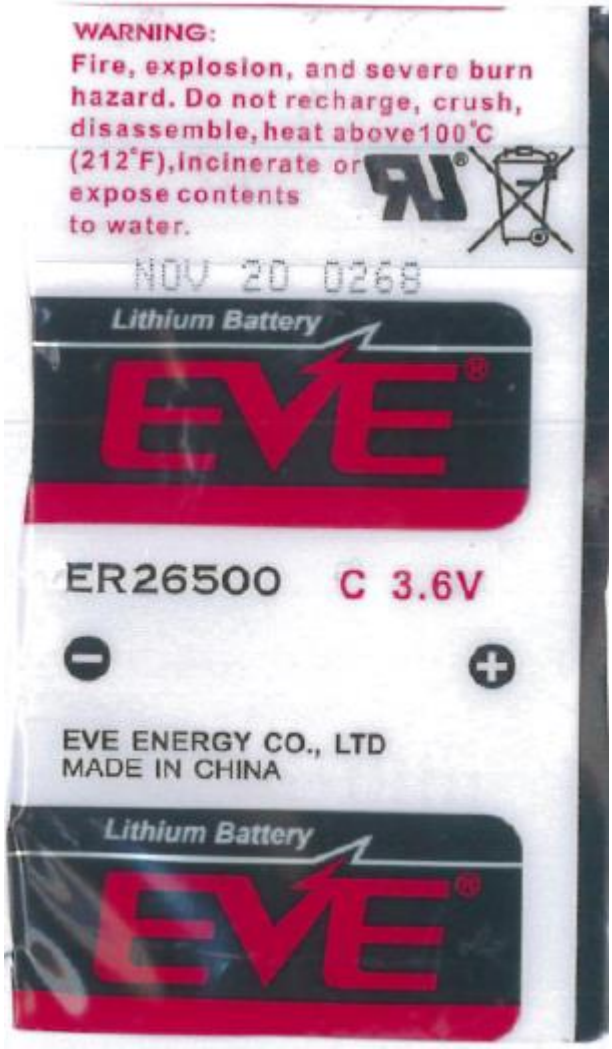
Summary of compliance with National Differences (List of countries addressed):

N/A

☒ **The product fulfils the requirements of EN 60086-4: 2019**

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.



Test item particulars.....:	
Classification of installation and use.....:	To be defined in final product
Supply Connection.....:	The positive and negative terminal
Weight of Battery.....:	Approx. 52.0g
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 .....:	2020-11-10
Date (s) of performance of tests.....:	2020-11-10 to 2020-12-10

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 Manufacturer

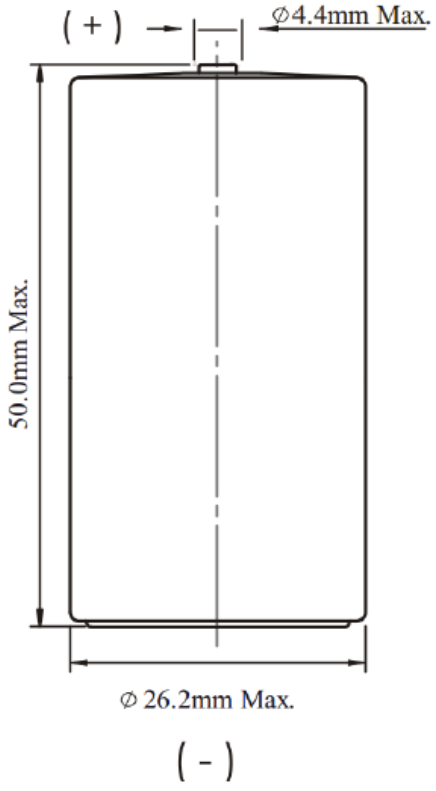
General product information and other remarks:

The cell consists of the positive electrode plate, negative electrode plate, separator, electrolyte and case. The positive and negative electrode plates are housed in the case in the state being separated by the separator.

The main features of the battery are shown as below:

Model	Nominal capacity	Nominal voltage	Maximum discharge current	Discharge cut-off voltage	Dimensions
ER26500	8500mAh	3.6V	150mA	2.0V	Max diameter: 26.2 mm Max Height: 50.0mm

Construction(unit: mm):



Circuit diagram:

None, cell only.

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		N/A
	c) Lithium 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	Venting mechanism exists on the cell.	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	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**	(See table 1 in the standard)	P
6	**TESTING AND REQUIREMENTS**		P
6.1	**General**		P
6.1.1	Test application matrix	(See table 2 in the standard)	P
	s: cell or single cell battery ……..:	Cell 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	Predischarged samples provided by manufacturer	P
6.1.6	Additional cells		N/A
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)	P
6.4.2	Test B: Thermal cycling .....……..……..:	(See appended Table 1)	P
6.4.3	Test C: Vibration ……..……..:	(See appended Table 1)	P
6.4.4	Test D: Shock ……..……..……..:	(See appended Table 1)	P
6.5	**Tests for reasonably foreseeable misuse**		P
6.5.1	Test E: External short-circuit ……..……..:	(See appended Table 1)	P
6.5.2	Test F: Impact ……..……..……..:	(See appended Table 1)	P
6.5.3	Test G: Crush ……..……..……..:	(See appended Table 1)	N/A
6.5.4	Test H: Forced discharge ..……..……..:	(See appended Table 1)	P
6.5.5	Test I: Abnormal charging …..…..……..……..:	(See appended Table 1)	P
6.5.6	Test J: Free fall ……..……..……..:	(See appended Table 1)	P
6.5.7	Test K: Thermal abuse ……..……..:	(See appended Table 1)	P
6.5.8	Test L: Incorrect installation ……..…..:	(See appended Table 1)	N/A
6.5.9	Test M: Overdischarge ……..……..:	(See appended Table 1)	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…….:	150mA current discharge to 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, and the diameter is not less than 18mm.	P
	d) Maximum continuous discharge current specified by the manufacturer for test H.……..:	150mA as specified by manufacturer applied.	P
	e) Rated capacity specified by the manufacturer for test H……..:	8500mAh.	P
	f) Abnormal charging current declared by the manufacturer for test I …..……..……..:	15mA as specified by manufacturer applied.	P
	g) Normal reverse current declared by the manufacturer which applied to the battery during its operating life……..:	Not applicable declared by manufacturer, reverse current is not allowed for the battery.	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		P
7.1.3	Parallel connection		P

IEC 60086-4			
Clause	Requirement + Test	Result - Remark	Verdict
7.2	**Precautions during handling of batteries**		P
7.3	**Packaging**		P
7.4	**Handling of battery cartons**		P
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**		P
7.7	**Disposal**		P
8	**INSTRUCTIONS FOR USE**		P
9	**MARKING AND PACKAGING**		P
9.1	**General**		P
9.2	**Swallowable batteries**		N/A
9.3	**Safety pictograms**		N/A
ANNEX A	**(INFORMATIVE) GUIDELINES FOR THE ACHIEVEMENT OF SAFETY OF LITHIUM BATTERIES**		N/A
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**	Not coin cell.	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

IEC 60086-4			
Clause	Requirement + Test	Result - Remark	Verdict
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)]**
Cell	EVE Energy Co., Ltd.	ER26500	DC 3.6V, 8.5Ah	IEC 60086-4: 2019	Tested with appliance
-Cell can	SYDX hardware factory	ER26500	φ25.3*47.1mm, SUS304 stainless steel	-	-
-Cell cover	EVE Energy Co., Ltd.	ER26500	φ24.5m, SUS304 stainless steel	-	-
- negative pole	M chemicals Co., Ltd.	DK-2,	50% Graphite Compressed	-	-
- positive pole	EVE Energy Co., Ltd.	1.8*34mm	Metal lithium. Li content≥99.9%	-	-
-Separator	HS Co., Ltd.	10000153	PP, 0.18*43mm, Shutdown Temperature: 130°C	-	-
-Electrolyte	JSST co., Ltd.	81000065	$SOCl_2$ content ≥99.60%	-	-
Supplementary information: [1)] Provided evidence ensures the agreed level of compliance. See OD-CB2039.					

	TABLE 1 (clause 6.4.1 – 6.5.9)				P
Tests	**Cell / battery type**	**Discharge state**	**Number of test sample**	**Test result**	**Verdict**
A to E	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
F	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
G	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
H	Cells and single cell batteries	Fully discharged	10	NE, NF	P
	Multi-cell batteries	Fully discharged	10 component cells		N/A
I to K	Cells and single cell batteries	Undischarged	5	NV, NE, NF (for test J) NE, NF (for test I & K)	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
Batt. No.	Before test		After test	
	battery voltage (V)	battery weight (g)	battery voltage (V)	battery weight (g)
C1	3.671	50.894	3.670	50.892
C2	3.674	51.128	3.675	51.126
C3	3.671	51.355	3.671	51.356
C4	3.670	50.939	3.668	50.938
C5	3.669	50.991	3.669	50.991
C6	3.672	51.119	3.671	51.117
C7	3.670	51.077	3.669	51.076
C8	3.670	51.164	3.670	51.165
C9	3.672	51.169	3.672	51.169
C10	3.670	50.930	3.671	50.928
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
Batt. No.	Before test		After test	
	battery voltage (V)	battery weight (g)	battery voltage (V)	battery weight (g)
C11	3.679	51.173	3.679	51.172
C12	3.623	51.253	3.624	51.251
C13	3.668	50.764	3.667	50.764
C14	3.656	51.019	3.656	51.018
C15	3.674	50.901	3.672	50.900
C16	3.673	51.401	3.672	51.401
C17	3.668	51.062	3.664	51.061
C18	3.678	51.041	3.678	51.040
C19	3.635	50.856	3.634	50.855
C20	3.675	50.670	3.674	50.670
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
Batt. No.	Before test		After test	
	battery voltage (V)	battery weight (g)	battery voltage (V)	battery weight (g)
C1	3.670	50.892	3.684	50.896
C2	3.675	51.126	3.685	51.123
C3	3.671	51.356	3.682	51.360
C4	3.668	50.938	3.679	50.937
C5	3.669	50.991	3.686	50.991
C6	3.671	51.117	3.684	51.118
C7	3.669	51.076	3.689	51.077
C8	3.670	51.165	3.688	51.165
C9	3.672	51.169	3.685	51.169
C10	3.671	50.928	3.687	50.929
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
Batt. No.	Before test		After test	
	battery voltage (V)	battery weight (g)	battery voltage (V)	battery weight (g)
C11	3.679	51.172	3.689	51.172
C12	3.624	51.251	3.686	51.250
C13	3.667	50.764	3.669	50.760
C14	3.656	51.018	3.691	51.120
C15	3.672	50.900	3.691	50.907
C16	3.672	51.401	3.691	51.409
C17	3.664	51.061	3.695	51.060
C18	3.678	51.040	3.693	51.049
C19	3.634	50.855	3.692	50.855
C20	3.674	50.670	3.694	50.670
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
Batt. No.	Before test		After test	
	battery voltage (V)	battery weight (g)	battery voltage (V)	battery weight (g)
C1	3.684	50.896	3.684	50.894
C2	3.685	51.123	3.686	51.124
C3	3.682	51.360	3.688	51.328
C4	3.679	50.937	3.678	50.937
C5	3.686	50.991	3.686	50.989
C6	3.684	51.118	3.685	51.117
C7	3.689	51.077	3.688	51.077
C8	3.688	51.165	3.689	51.164
C9	3.685	51.169	3.683	51.168
C10	3.687	50.929	3.687	50.928
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
Batt. No.	Before test		After test	
	battery voltage (V)	battery weight (g)	battery voltage (V)	battery weight (g)
C11	3.689	51.172	3.686	51.172
C12	3.686	51.250	3.685	51.248
C13	3.669	50.760	3.687	50.757
C14	3.691	51.120	3.689	51.119
C15	3.691	50.907	3.691	50.907
C16	3.691	51.409	3.687	51.405
C17	3.695	51.060	3.693	51.058
C18	3.693	51.049	3.693	51.044
C19	3.692	50.855	3.694	50.853
C20	3.694	50.670	3.695	50.668
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
Batt. No.	Before test		After test	
	battery voltage (V)	battery weight (g)	battery voltage (V)	battery weight (g)
C1	3.684	50.894	3.683	50.892
C2	3.686	51.124	3.685	51.124
C3	3.688	51.328	3.679	51.329
C4	3.678	50.937	3.677	50.938
C5	3.686	50.989	3.689	50.987
C6	3.685	51.117	3.684	51.118
C7	3.688	51.077	3.689	51.078
C8	3.689	51.164	3.688	51.165
C9	3.683	51.168	3.685	51.169
C10	3.687	50.928	3.684	50.929
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
Batt. No.	Before test		After test	
	battery voltage (V)	battery weight (g)	battery voltage (V)	battery weight (g)
C11	3.686	51.172	3.686	51.170
C12	3.685	51.248	3.684	51.249
C13	3.687	50.757	3.689	50.757
C14	3.689	51.119	3.688	51.118
C15	3.691	50.907	3.692	50.908
C16	3.687	51.405	3.684	51.406
C17	3.693	51.058	3.689	51.059
C18	3.693	51.044	3.692	51.042
C19	3.694	50.853	3.695	50.852
C20	3.695	50.668	3.696	50.667
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
C1	55.1	3.674	84.1	105.0	P
C2	55.1	3.689	82.6	107.1	P
C3	55.1	3.678	83.9	104.9	P
C4	55.1	3.675	89.4	109.3	P
C5	55.1	3.674	87.5	108.7	P
C6	56.0	3.669	84.1	103.8	P
C7	56.0	3.674	82.0	108.1	P
C8	56.0	3.671	83.9	102.9	P
C9	56.0	3.672	87.6	101.3	P
C10	56.0	3.676	89.4	109.7	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
C11	55.1	3.679	85.1	65.7	P
C12	55.1	3.623	82.3	63.7	P
C13	55.1	3.668	86.9	64.1	P
C14	55.1	3.674	89.1	66.3	P
C15	55.1	3.675	84.5	66.5	P
C16	56.4	3.648	87.5	69.9	P
C17	56.4	3.671	85.6	68.2	P
C18	56.4	3.657	89.9	71.3	P
C19	56.4	3.667	87.7	74.7	P
C20	56.4	3.668	81.5	70.6	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
C21	22.2	3.678	23.8	P
C22	22.2	3.674	23.8	P
C23	22.2	3.668	23.9	P
C24	22.2	3.669	24.0	P
C25	22.2	3.675	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
C26	21.5	3.661	23.7	P
C27	21.5	3.664	23.8	P
C28	21.5	3.669	23.7	P
C29	21.5	3.656	23.5	P
C30	21.5	3.653	23.4	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, (mins)	Results
C31	3.674	0.150	3400	P
C32	3.659	0.150	3400	P
C33	3.667	0.150	3400	P
C34	3.654	0.150	3400	P
C35	3.669	0.150	3400	P
C36	3.674	0.150	3400	P
C37	3.651	0.150	3400	P
C38	3.658	0.150	3400	P
C39	3.667	0.150	3400	P
C40	3.669	0.150	3400	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, (mins)	Results
C41	3.678	0.015	28333.4	P
C42	3.674	0.015	28333.4	P
C43	3.667	0.015	28333.4	P
C44	3.668	0.015	28333.4	P
C45	3.679	0.015	28333.4	P
Supplementary information: - No explosion and no fire.				

6.5.6	**TABLE: Test J: Free fall** (Undischarged)		P
Battery No.	Before test	After test	Test results
	battery voltage (V)	battery voltage (V)	
C46	3.674	3.675	P
C47	3.671	3.670	P
C48	3.675	3.672	P
C49	3.674	3.671	P
C50	3.671	3.672	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)	
C51	3.694	3.766	P
C52	3.697	3.753	P
C53	3.694	3.792	P
C54	3.695	3.729	P
C55	3.692	3.757	P
Supplementary information: - No explosion and no fire.			

6.5.8	**Test L: Incorrect installation** (Undischarged)			N/A
Battery No.	OCV at start of test, (Vdc)	Resistance of circuit, (mΩ)	Maximum case temperature ~~rise~~ ΔT, (°C)	Results
Supplementary information: - No explosion and no fire.				

6.5.9	**Test M: Overdischarge**			N/A
50% predischarged test batteries				
Battery No.	OCV at start of test, (Vdc)	Resistance of circuit, (Ω)	Maximum case temperature ~~rise~~ ΔT, (°C)	Results
Supplementary information: - No explosion and no fire.				
6.5.9	**Test M: Overdischarge**			N/A
75% predischarged test batteries				
Battery No.	OCV at start of test, (Vdc)	Resistance of circuit, (Ω)	Maximum case temperature ~~rise~~ ΔT, (°C)	Results
Supplementary information: - No explosion and no fire.				

--End of Report--

Attachment 1 Photo Documentation

Product: Lithium-thionyl chloride battery

Type Designation: ER26500

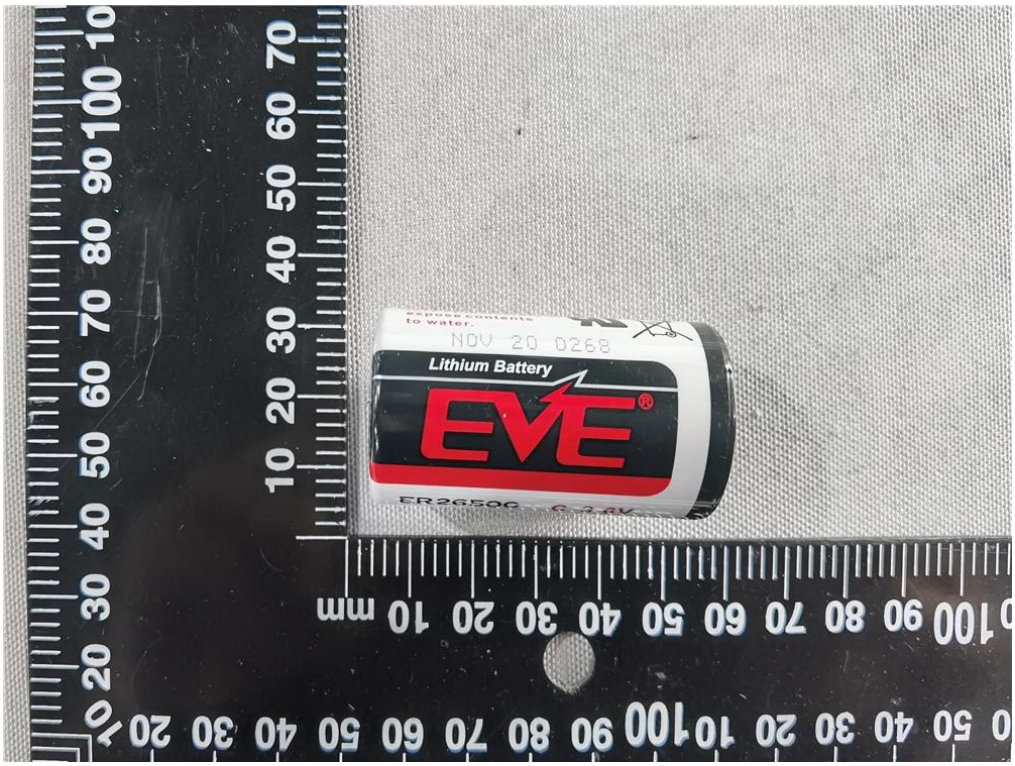


Figure 1 Front view of battery



Figure 2 Back view of battery

Attachment 1 Photo Documentation

Product: Lithium-thionyl chloride battery

Type Designation: ER26500

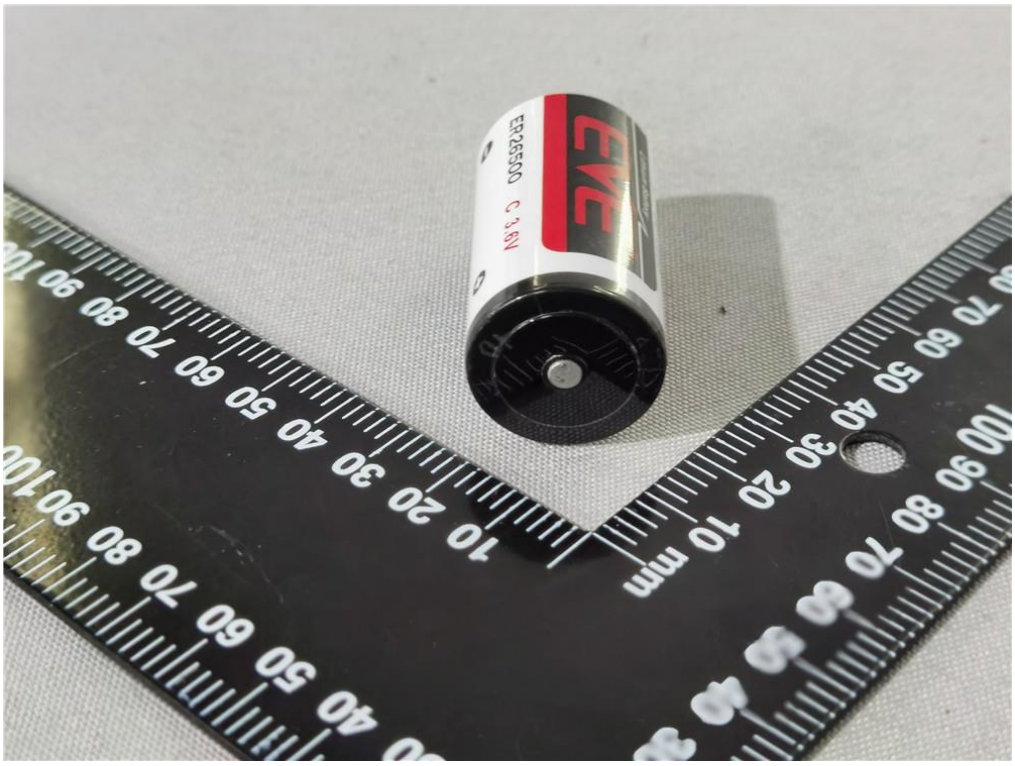


Figure 3 Side view of battery