

UN38.3 Test Report

Client Name Entel Philippines

Name of product Rechargeable Lithium-Ion Battery Pack

Manufacturer Entel Philippines

Trade mark & model ENTEL/CNB420E

Test sort Safety Entrust Test



CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd.

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CCIC Southern Electronic Product Testing (Shenzhen) CO., Ltd.

TEST REPORT

Name of sample	Rechargeable Lithium-Ion Battery Pack		Trade mark	ENTEL	
Manufacturer	Entel Philippines		Model/Type	CNB420E (cell model:063350AR)	
Client	Entel Philippines		Sampling method	Sent by client	
Application date	2018/07/23		Completing Date	2018/08/08	
Quantity of samples	8Batteries,25Cells		Environment condition	15~35℃ 45~75%RH	
Nominal voltage (Cell /battery)	3.7V/7.4V	Limited Charge Voltage (Cell /battery)	4.2V/8.4V	Rate Energy/Capacity (Battery)	9.99Wh/1350mAh
Standard charge current (Cell /battery)	0.27A/0.27A	Max. Charge Current (Cell /battery)	1.35A/1.35A	End Charge Current (Cell)	0.027A
Cut-off Voltage (Cell /battery)	2.75V/5.5V	Max.Discharge Current (Cell /battery)	1.35A/1.35A	Component cells Number	2PCS

Test item:

- Test1: Altitude simulation
- Test2: Thermal Test
- Test3: Vibration
- Test4: Shock
- Test5: External short circuit
- Test6: Impact/Crush
- Test7: Overcharge
- Test8: Forced discharge

Reference documents:

《Recommendations on the Transport of Dangerous Goods, Manual of Test and Criteria》 (Sixth revised edition) section 38.3:Lithium metal and lithium ion batteries (ST/SG/AC.10/11/Rev.6).

Summary:

Each Cell/battery type is subjected to tests 1 to 8, Tests 1 to 5 are conducted in sequence on the same Cells/batteries, Tests 6 and 8 are conducted using not otherwise tested Cells/batteries, Test 7 using undamaged batteries previously used in Tests 1 to 5.

$$\text{Mass loss\%} = (M_1 - M_2) / M_1 \times 100$$

Where M_1 is the mass before the test and M_2 is the mass after the test. When mass loss does not exceed the values in Table 38.3.2.2, it shall be considered as "no mass loss".

Mass M of cell or battery	Mass loss limit
$M < 1\text{g}$	0.5%
$1\text{g} \leq M \leq 75\text{g}$	0.2%
$M > 75\text{g}$	0.1%

In test 1 to 4 batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test battery after testing is not less than 90% of its voltage immediately prior to this procedure.

Remark:

Batteries of B01#-B04# are fully charged at first cycle.

Component cells of C9#-C13# at 50% of the design rated capacity at first cycle.

Batteries of B05#-B08# are fully charged after 50 cycles.

Component cells of C14#-C23# at first cycle in fully discharged states.

Component cells of C24#-C33# are fully Discharged after 50 cycles.

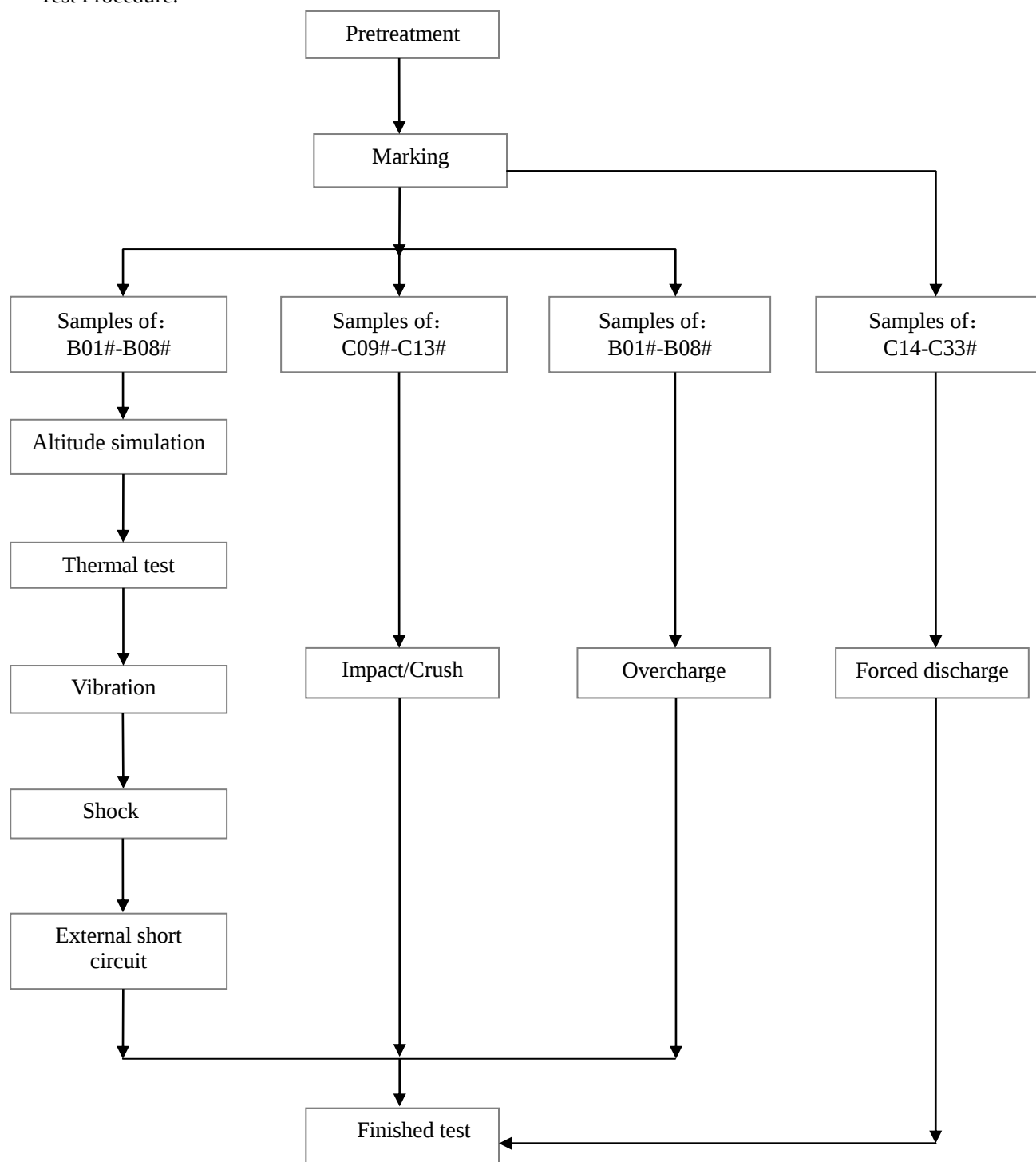
Test conclusion:

The test samples comply with section 38.3 of Recommendations on the Transport of Dangerous Goods, Manual of Test and Criteria.

(stamp)

Tested by	<u>Peter Pan</u>	Reviewed by	<u>Lu Jian</u>	Approved by	<u>Smartli</u>
	Aug.08.2018		Aug.08.2018		Aug.08.2018

Test Procedure:



Test results:

Test T.1 Altitude simulation

Test method;

Cells are stored at a pressure of 11.6 kPa or less for at least six hours at ambient temperature ($20 \pm 5^\circ\text{C}$).

Requirement;

Cells meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cells after testing is not less than 90% of its voltage immediately prior to this procedure.

Test Date showed in table below;

State of sample	No.	Pre-test		After test		Mass loss (%)	Voltage after test/Voltage pre-test(%)	Status
		Mass (g)	Voltage (V)	Mass (g)	Voltage (V)			
At first cycle in fully charged states	B01#	88.483	8.365	88.482	8.365	0.00	100.00	PASS
	B02#	88.680	8.362	88.679	8.361	0.00	99.99	PASS
	B03#	88.536	8.356	88.535	8.355	0.00	99.99	PASS
	B04#	88.338	8.358	88.336	8.357	0.00	99.99	PASS
After 50 cycles ending in fully charged states	B05#	88.452	8.359	88.451	8.357	0.00	99.98	PASS
	B06#	88.559	8.361	88.559	8.359	0.00	99.98	PASS
	B07#	88.562	8.356	88.562	8.356	0.00	100.00	PASS
	B08#	88.614	8.364	88.613	8.363	0.00	99.99	PASS

Notes:

After the test, the cells are no leakage, no venting, no disassembly, no rupture and no fire.

Ambient temperature: 24.5°C .

Test T.2: Thermal test

Test method;

Cells are to be stored for at least six hours at a test temperature equal to 72 ± 2 °C, followed by storage for at least six hours at a test temperature equal to -40 ± 2 °C. The maximum time interval between test temperature extremes is 30 minutes. This procedure is to be repeated 10 times, after which all test cells are to be stored for 24 hours at ambient temperature (20 ± 5 °C).

Requirement;

Cells meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cells after testing is not less than 90% of its voltage immediately prior to this procedure.

Test Date showed in table below;

State of sample	No.	Pre-test		After test		Mass loss (%)	Voltage after test/Voltage pre-test(%)	Status
		Mass (g)	Voltage (V)	Mass (g)	Voltage (V)			
At first cycle in fully charged states	B01#	88.482	8.365	88.471	8.245	0.01	98.57	PASS
	B02#	88.679	8.361	88.668	8.251	0.01	98.68	PASS
	B03#	88.535	8.355	88.529	8.262	0.01	98.89	PASS
	B04#	88.336	8.357	88.329	8.256	0.01	98.79	PASS
After 50 cycles ending in fully charged states	B05#	88.451	8.357	88.442	8.240	0.01	98.60	PASS
	B06#	88.559	8.359	88.545	8.245	0.02	98.64	PASS
	B07#	88.562	8.356	88.551	8.245	0.01	98.67	PASS
	B08#	88.613	8.363	88.606	8.252	0.01	98.67	PASS

Notes:

After the test, the cells are no leakage, no venting, no disassembly, no rupture and no fire.

Ambient temperature:24.3°C.

Test T.3: Vibration

Test method;

Cells are firmly secured to the platform of the vibration machine ,The vibration is a sinusoidal waveform with a logarithmic sweep between 7 Hz and 200 Hz and back to 7 Hz traversed in 15 minutes. This cycle shall be repeated 12 times for a total of 3 hours for each of three mutually perpendicular mounting positions of the cell. One of the directions of vibration must be perpendicular to the terminal face.

The logarithmic frequency sweep is as follows: from 7 Hz a peak acceleration of $1g_n$ is maintained until 18 Hz is reached. The amplitude is then maintained at 0.8 mm (1.6 mm total excursion) and the frequency increased until a peak acceleration of $8g_n$ occurs (approximately 50 Hz). A peak acceleration of $8g_n$ is then maintained until the frequency is increased to 200 Hz.

Requirement;

Cells meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cells after testing is not less than 90% of its voltage immediately prior to this procedure.

Test Date showed in table below;

State of sample	No.	Pre-test		After test		Mass loss (%)	Voltage after test/Voltage pre-test(%)	Status
		Mass (g)	Voltage (V)	Mass (g)	Voltage (V)			
At first cycle in fully charged states	B01#	88.471	8.245	88.471	8.245	0.00	100.0	PASS
	B02#	88.668	8.251	88.668	8.251	0.00	100.0	PASS
	B03#	88.529	8.262	88.529	8.262	0.00	100.0	PASS
	B04#	88.329	8.256	88.329	8.256	0.00	100.0	PASS
After 50 cycles ending in fully charged states	B05#	88.442	8.240	88.442	8.240	0.00	100.0	PASS
	B06#	88.545	8.245	88.545	8.245	0.00	100.0	PASS
	B07#	88.551	8.245	88.551	8.245	0.00	100.0	PASS
	B08#	88.606	8.252	88.606	8.252	0.00	100.0	PASS

Notes:

After the test, the cells are no leakage, no venting, no disassembly, no rupture and no fire.

Ambient temperature:24.7°C.

Test T.4: Shock

Test cells and batteries shall be secured to the testing machine by means of a rigid mount which will support all mounting surfaces of each test battery. Each cell shall be subjected to a half-sine shock of peak acceleration of 150 g_n and pulse duration of 6 milliseconds. Alternatively, large cells may be subjected to a half-sine shock of peak acceleration of 50 g_n and pulse duration of 11 milliseconds.

Each battery shall be subjected to a half-sine shock of peak acceleration depending on the mass of the battery. The pulse duration shall be 6 milliseconds for small batteries and 11 milliseconds for large batteries. The formulas below are provided to calculate the appropriate minimum peak accelerations.

Battery	Minimum peak acceleration	Pulse duration
Small batteries	150 g _n or result of formula $Acceleration(g_n) = \sqrt{\left(\frac{100850}{mass^*}\right)}$ whichever is smaller	6 ms
Large batteries	50 g _n or result of formula $Acceleration(g_n) = \sqrt{\left(\frac{30000}{mass^*}\right)}$ whichever is smaller	11 ms

* Mass is expressed in kilograms.

Each cell or battery shall be subjected to three shocks in the positive direction and to three shocks in the negative direction in each of three mutually perpendicular mounting positions of the cell or battery for a total of 18 shocks.

Requirement;

Cells and batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cells after testing is not less than 90% of its voltage immediately prior to this procedure.

The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states.

Test Date showed in table below;

State of sample	No.	Pre-test		After test		Mass loss (%)	Voltage after test/Voltage pre-test(%)	Status
		Mass (g)	Voltage (V)	Mass (g)	Voltage (V)			
At first cycle in fully charged states	B01#	88.471	8.245	88.471	8.245	0.00	100.00	PASS
	B02#	88.668	8.251	88.668	8.251	0.00	100.00	PASS
	B03#	88.529	8.262	88.529	8.262	0.00	100.00	PASS
	B04#	88.329	8.256	88.329	8.256	0.00	100.00	PASS
After 50 cycles ending in fully charged states	B05#	88.442	8.240	88.442	8.240	0.00	100.00	PASS
	B06#	88.545	8.245	88.545	8.245	0.00	100.00	PASS
	B07#	88.551	8.245	88.551	8.245	0.00	100.00	PASS
	B08#	88.606	8.252	88.606	8.252	0.00	100.00	PASS

Notes:

After the test,the cells are no leakage,no venting, no disassembly, no rupture and no fire.
Ambient temperature:24.5℃.

Test T.5: External short circuit

Test method;

The cell or battery to be tested shall be heated for a period of time necessary to reach a homogeneous stabilized temperature of 57 ± 4 °C, measured on the external case. This period of time depends on the size and design of the cell or battery and should be assessed and documented. If this assessment is not feasible, the exposure time shall be at least 6 hours for small cells and small batteries, and 12 hours for large cells and large batteries. Then the cell or battery at 57 ± 4 °C shall be subjected to one short circuit condition with a total external resistance of less than 0.1 ohm.

This short circuit condition is continued for at least one hour after the cell or battery external case temperature has returned to 57 ± 4 °C, or in the case of the large batteries, has decreased by half of the maximum temperature increase observed during the test and remains below that value.

The short circuit and cooling down phases shall be conducted at least at ambient temperature.

Requirement;

Cells and batteries meet this requirement if their external temperature does not exceed 170°C and there is no disassembly, no rupture and no fire within six hours after test.

Test Date showed in table below;

State of sample	No.	Highest temperature (°C)	Status
At first cycle in fully charged states	B01#	62.2	PASS
	B02#	61.5	PASS
	B03#	61.0	PASS
	B04#	60.6	PASS
After 50 cycles ending in fully charged states	B05#	61.2	PASS
	B06#	60.9	PASS
	B07#	61.6	PASS
	B08#	59.8	PASS

Notes:

After the test, the cells are no disassembly ,no rupture and no fire within six hours.

Ambient temperature:24.2°C.

Test T.6: Impact/Crush

Impact(applicable to cylindrical cells not less than 18mm in diameter)

Test method;

The sample cell or component cell is to be placed on a flat smooth surface. A 15.8 mm ± 0.1 mm diameter, at least 6 cm long, or the longest dimension of the cell, whichever is greater, Type 316 stainless steel bar is to be placed across the centre of the sample. A 9.1 kg ± 0.1 kg mass is to be dropped from a height of 61 ± 2.5 cm at the intersection of the bar and sample in a controlled manner using a near frictionless, vertical sliding track or channel with minimal drag on the falling mass. The vertical track or channel used to guide the falling mass shall be oriented 90 degrees from the horizontal supporting surface.

The test sample is to be impacted with its longitudinal axis parallel to the flat surface and perpendicular to the longitudinal axis of the 15.8 mm ± 0.1 mm diameter curved surface lying across the centre of the test sample. Each sample is to be subjected to only a single impact.

Crush (applicable to prismatic, pouch, coin/button cells and cylindrical cells not more than 18 mm in diameter)

Test method;

Cells or component cell is to be crushed between two flat surfaces. The crushing is to be gradual with a speed of approximately 1.5 cm/s at the first point of contact, The crushing is to be continued until the first of the three options below is reached.

- (a)The applied force reaches 13 kN ± 0.78 kN;
- (b)The voltage of the cell drops by at least 100 mV; or
- (c) The cell is deformed by 50% or more of its original thickness.

Requirement;

Cells or component cell meet this requirement if their external temperature does not exceed 170 °C and there is no disassembly, no rupture and no fire during the test and within six hours after test.

Test Date showed in table below;

State of sample	Test item	No.	Status
At first cycle at 50% of the design rated capacity	Crush	C09#	PASS
		C10#	PASS
		C11#	PASS
		C12#	PASS
		C13#	PASS

Notes:

Cells or component cell are no disassembly and no fire during the test and within six hours after test.

Ambient temperature:24.5°C.

Test T.7: Overcharge

Test method;

The charge current is twice the manufacturer's recommended maximum continuous charge current. The voltage of the test is the lesser of two times the maximum charge voltage of the battery ,Tests are to be conducted at ambient temperature. The duration of the test is 24 hours.

Requirement;

Batteries meet this requirement if there is no disassembly and no fire during the test and within seven days after the test

Test Date showed in table below;

Overcharge current: $2 \times 1.35 = 2.7A$	Overcharge voltage : $2 \times 8.4V = 16.8V$	Total time of charging: 24hours
State of sample	No.	Status
At first cycle in fully charged states	B01#	PASS
	B02#	PASS
	B03#	PASS
	B04#	PASS
After 50 cycles ending in fully charged states	B05#	PASS
	B06#	PASS
	B07#	PASS
	B08#	PASS

Notes:

Cells are no disassembly and no fire during the test and within seven days after the test

Ambient temperature:24.7°C.

Test T.8: Forced discharge

Test method;

Each cells is forced discharged at ambient temperature by connecting it in series with a 12V D.C. power supply at an initial current equal to the maximum discharge current specified by the manufacturer.

Requirement;

Recharged cells meet this requirement if there is no disassembly and no fire during the test and within seven days after the test.

Test Date showed in table below;

State of sample	No.	Status
At first cycle in fully discharged states	C14#	PASS
	C15#	PASS
	C16#	PASS
	C17#	PASS
	C18#	PASS
	C19#	PASS
	C20#	PASS
	C21#	PASS
	C22#	PASS
	C23#	PASS
After 50 cycles ending in fully discharged states	C24#	PASS
	C25#	PASS
	C26#	PASS
	C27#	PASS
	C28#	PASS
	C29#	PASS
	C30#	PASS
	C31#	PASS
	C32#	PASS
	C33#	PASS

Notes:

After the test, the recharged cells are no disassembly and no fire during the test and within seven days Ambient temperature:24.4°C.

Photo Document

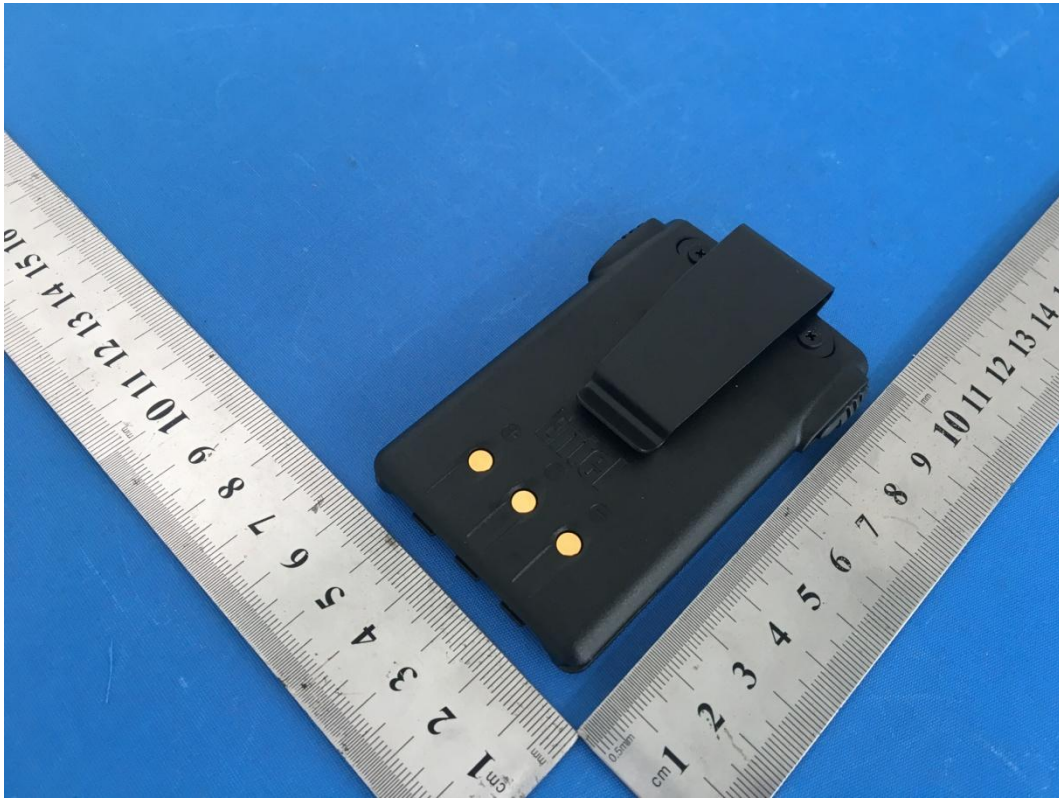


Photo 1

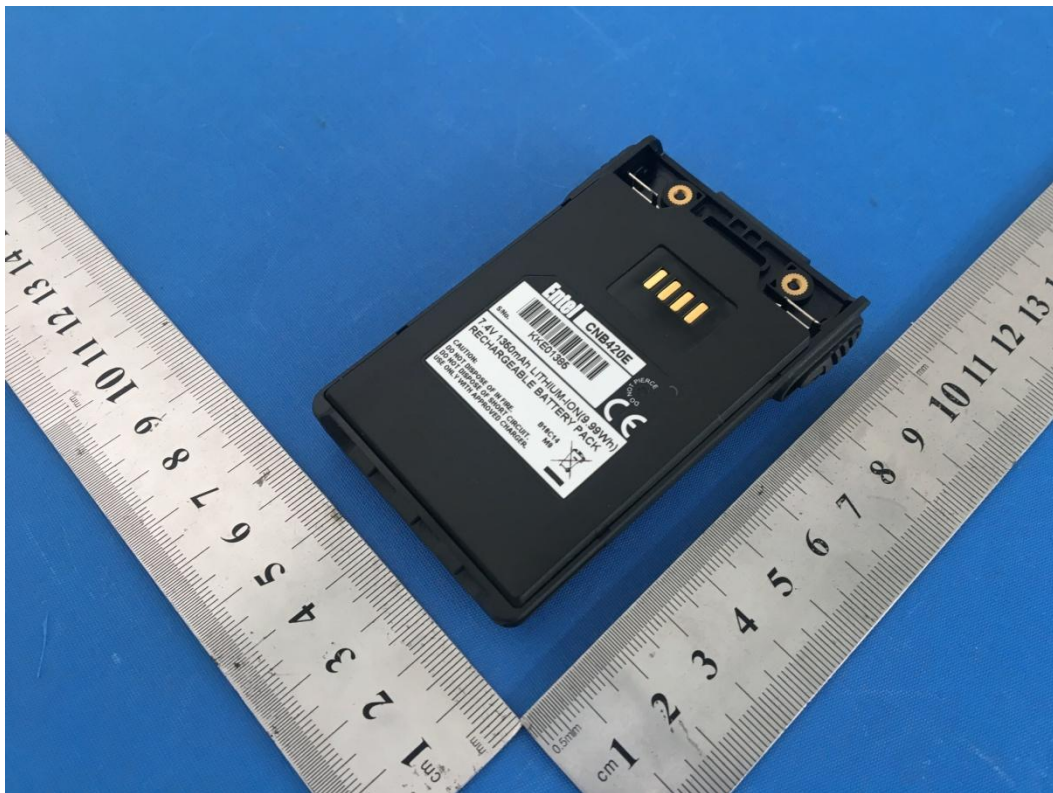


Photo 2

Photo Document

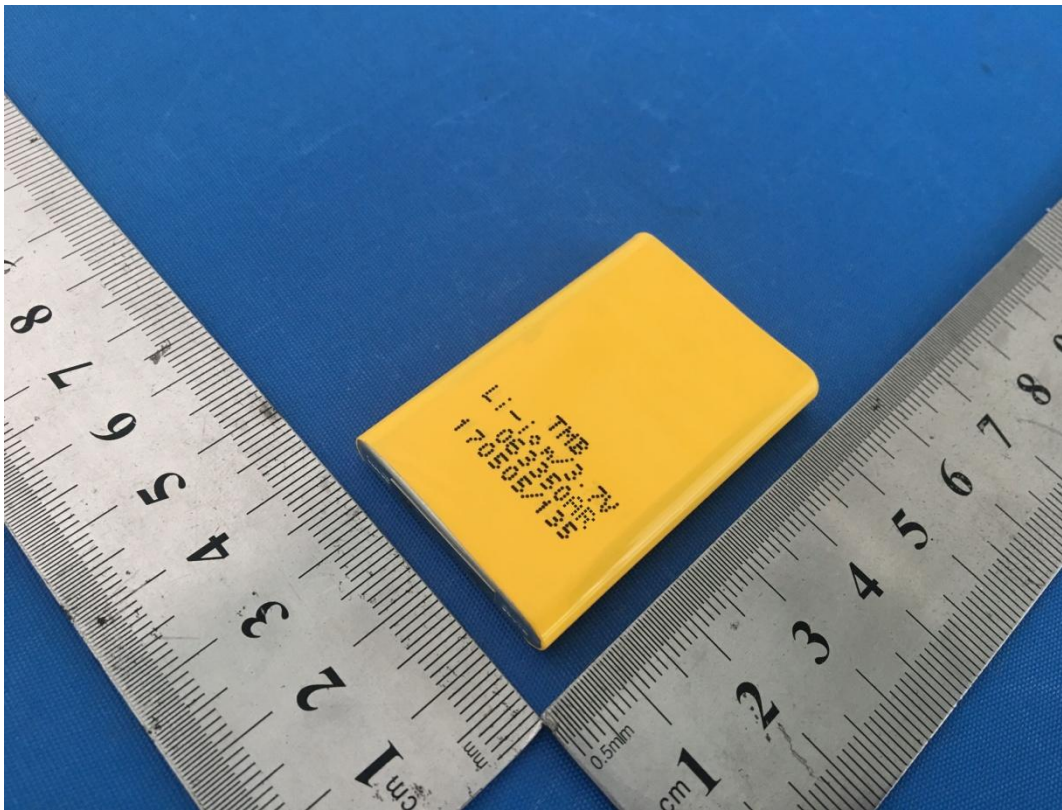


Photo 3



Photo 4

TESTING INSTRUMENTS

No.	NAME	Type	Serial No.	Effective date
1	Battery test system	BT2000	A0812588	2019/06/08
2	Battery charge&discharge test system	CHROMA 17011	R15100032	2018/09/26
3	DC Low Ohm Meter	YG2512	R160700400	2019/06/27
4	Digital Multimeter	U1341C	R170800448	2018/09/28
5	Vibration tester	ACT2000-R0320S	A1107722	2019/01/03
6	Electronic balance	BS 423S	R0509002	2019/06/28
7	Shock tester	CL-50	R141000242	2018/11/01
8	Ruler	CCIC-NF-02	C16080078	2019/11/19
9	High and low temperature test chamber	XSMS4-225C	R160700407	2019/07/25
10	Crush tester	HY-JYDL-21	R1401193	2019/06/11
11	LXI Data Acquisition/Switch Unit	34972A	R160527001	2019/07/05
12	20-Channel Armature Multiplexer	34901A	R160527003	2019/07/05
13	Vacuum chamber	RJD-DY-50	R150300294	2018/08/27

Notes: The above instrument is within the metering test cycle.

STATEMENT

1. The test report is invalid without stamp of laboratory.
2. The test report is invalid without signature of person(s) testing and authorizing.
3. The test report is invalid if erased and corrected.
4. Test results of the report is valid to the test samples if sampling by client.
5. “☆”item to be outside the scope of authorized by CNAS..
6. The test report shall not be reproduced except in full, without written approval of the laboratory.
7. If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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E-Mail: manager@ccic-set.com

TEST REPORT

Client Name	Entel Philippines
Name of product	Rechargeable Lithium-Ion Battery Pack
Manufacturer	Entel Philippines
Trade mark & model	Entel / CNB420E
Test sort	Commission Test



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CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd.**TEST REPORT**

Name of sample	Rechargeable Lithium-Ion Battery Pack	Trade mark	Entel
Manufacturer	Entel Philippines	Model/Type	CNB420E
Client	Entel Philippines	Sampling method	Sent by client
Nominal voltage	7.4V	Rate Capacity	9.99Wh/1350mAh
Single Cell/Battery weight	0.088kg	Quantity of samples	A package/100pcs
Equipment model	/	Application date	Jul.23.2018
Test date	Aug.09.2018	Environment condition	20~25℃, 45~75%RH

Packing method:

Package size: 310*315*325mm, Contains 100 Cells per package, Gross weight per package 10.94 kg.

Package (Lithium Ion Batteries – PI965) UN3480.

Test item:

1.2m Drop Test.

Reference documents:

UNITED NATIONS “Recommendations On The Transport Of Dangerous Goods” Model Regulations (20th Rev. edition) special provisions 188.

Summary:

According to the Test requirements, Test were performed on the samples, Details refer to following page.

Test conclusion:

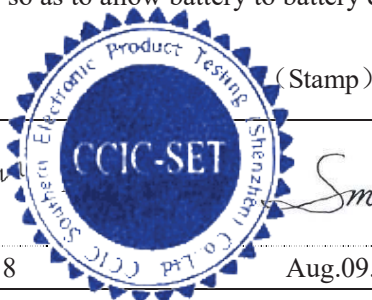
The tested package is capable of withstanding a 1.2m drop test in any orientation without damage to batteries contained therein, without shifting of the contents so as to allow battery to battery contact and without release of contents.

Tested by:

Peter Pan

Inspected by:

Lin Jian



Smartli

Aug.09.2018

Aug.09.2018

Aug.09.2018

Test Result			
No.	Test Item	Test Requirement	Test Result
1	1.2m Drop Test	Test Height: 1200mm. Drop Direction: Bottom, top, long side and short side, corner and edge, A total of six directions. Drop times: once on each. After the test, the package is not cracked; the contents are not damaged and not shifted.	Pass

TESTING INSTRUMENTS

No.	NAME	Type	Serial No.	Effective date
1	DROP SHOCK TEST TABLE	ETR-F-315S	A130101035	2018.11.16

Notes: The above instrument is within the metering test cycle.

E N D

Photos



Photo 1



Photo 2

Photos

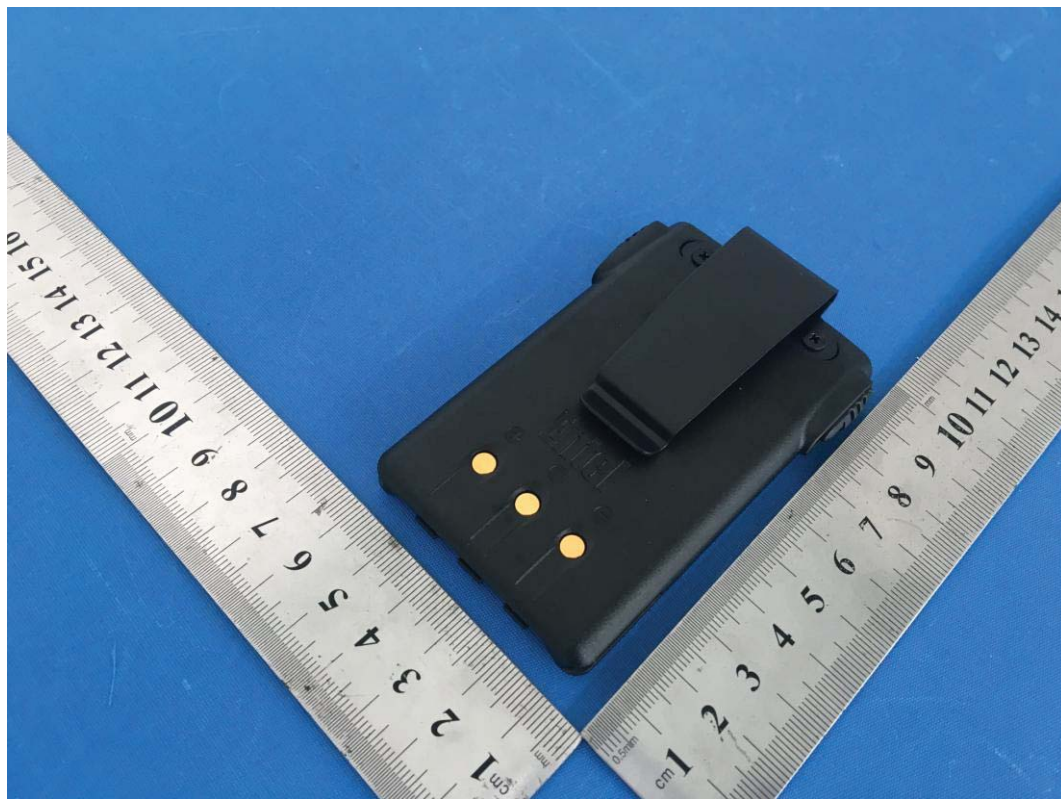


Photo 3



Photo 4

STATEMENT

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TEST REPORT

Client Name	Entel Philippines
Name of product	Rechargeable Lithium-Ion Battery Pack
Manufacturer	Entel Philippines
Trade mark & model	Entel / CNB420E
Test sort	Commission Test



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CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd.**TEST REPORT**

Name of sample	Rechargeable Lithium-Ion Battery Pack	Trade mark	Entel
Manufacturer	Entel Philippines	Model/Type	CNB420E
Client	Entel Philippines	Sampling method	Sent by client
Nominal voltage	7.4V	Rate Capacity	9.99Wh/1350mAh
Single Cell/Battery weight	0.088kg	Quantity of samples	A package/16pcs
Equipment model	CNB420E	Application date	Jul.23.2018
Test date	Aug.09.2018	Environment condition	20~25℃, 45~75%RH

Packing method:

Package size: 675*395*195mm, Contains 16 Cells per package, Gross weight per package 11.60 kg.

Package (Lithium Ion Batteries packed with equipment – PI966) UN3481.

Test item:

1.2m Drop Test.

Reference documents:

UNITED NATIONS “Recommendations On The Transport Of Dangerous Goods” Model Regulations (20th Rev. edition) special provisions 188.

Summary:

According to the Test requirements, Test were performed on the samples, Details refer to following page.

Test conclusion:

The tested package is capable of withstanding a 1.2m drop test in any orientation without damage to batteries contained therein, without shifting of the contents so as to allow battery to battery contact and without release of contents.

(Stamp)

Tested by: Peter Pan Inspected by: Lu Jian Approved by: Smartli

Aug.09.2018 Aug.09.2018 Aug.09.2018

Test Result			
No.	Test Item	Test Requirement	Test Result
1	1.2m Drop Test	Test Height: 1200mm. Drop Direction: Bottom, top, long side and short side, corner and edge, A total of six directions. Drop times: once on each. After the test, the package is not cracked; the contents are not damaged and not shifted.	Pass

TESTING INSTRUMENTS

No.	NAME	Type	Serial No.	Effective date
1	DROP SHOCK TEST TABLE	ETR-F-315S	A130101035	2018.11.16

Notes: The above instrument is within the metering test cycle.

E N D

Photos



Photo 1



Photo 2

Photos

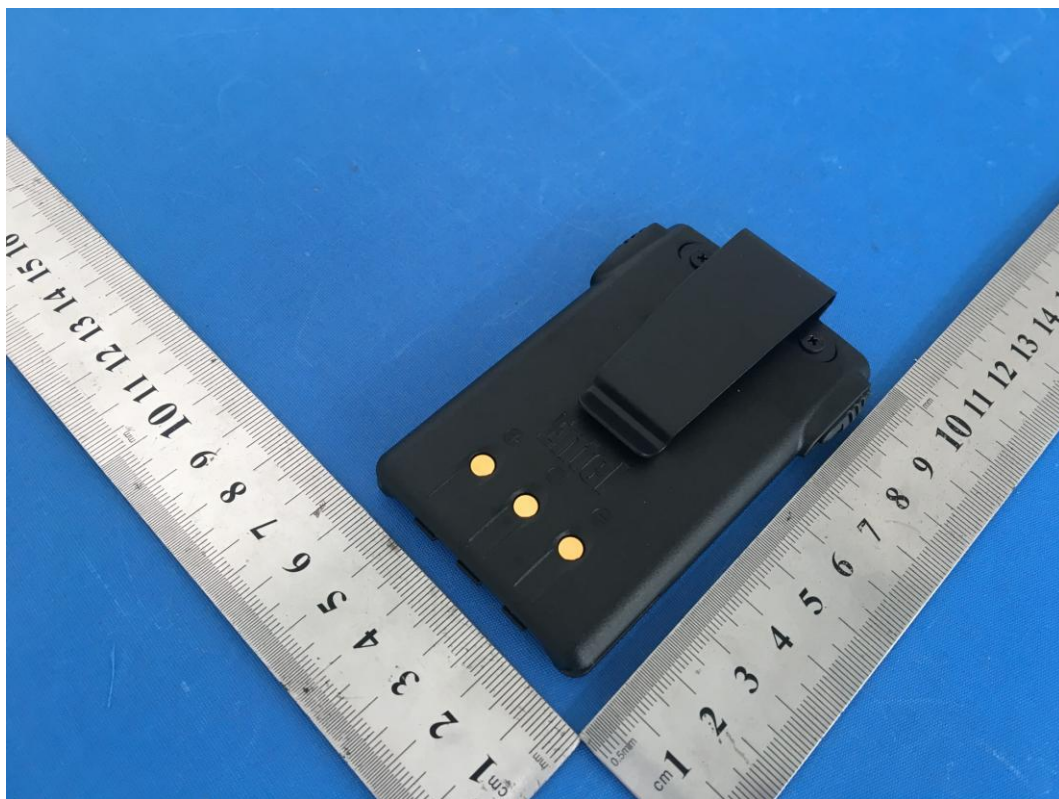


Photo 3

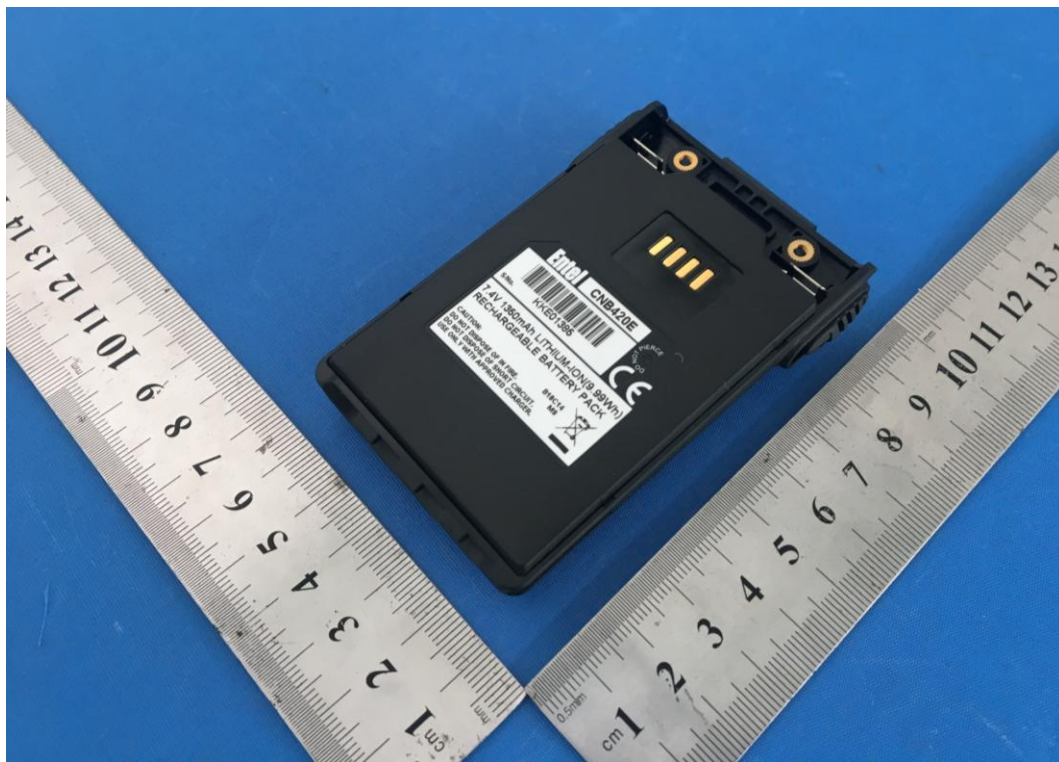


Photo 4

STATEMENT

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2. The test report is invalid without signature of person(s) testing and authorizing.
3. The test report is invalid if erased and corrected.
4. Test results of the report are valid to the test samples if sampling by client.
5. “☆”item cannot be Accredited by CNAS.
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7. If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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P.C.: 518055

TEL: 86-755-26627238

Internet: [http:// www.ccic-set.com](http://www.ccic-set.com)

FAX: 86-755-26627238

E-Mail: manager@ccic-set.com



中国认可
检验
INSPECTION
CNAS IB0078



Strategic
Partner

危险物品
DANGEROUS GOODS

航空运输条件鉴别报告书

Identification and Classification Report for Air Transport of Goods

有效
2月31日

此报告本年度有效
有效期至2018年12月31日

报告编号: PEKGZ20180830375GJX0001

Issued No.:

签发日期: 2018. 08. 30

Issued Date:

委托单位: Entel Philippines

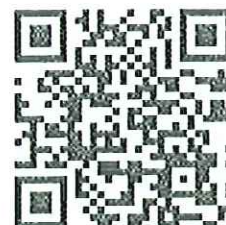
Applicant:

物品名称: 可充式锂离子电池组 CNB420E

Name of Goods: Rechargeable Lithium-Ion Battery Pack CNB420E

北京迪捷姆空运技术开发有限公司

Beijing DGM Air Transport Technology Co.Ltd



报告书使用约定

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电话：010-69479673 传真：010-69479621

网址：www.dgmchina.com.cn E-mail: test@dgmchina.com.cn



项目编号 Item No.		PEKGZ20180830375	
鉴别目的 Identification Purpose		是否属于航空运输危险物品 Dangerous Goods or not restricted	鉴别日期 Identification Date 2018. 08. 30
鉴别依据 Identification Criteria		IATA DGR 59th, 2018	
物品名称 Name of Goods	中文 Chinese	可充式锂离子电池组 CNB420E	
	英文 English	Rechargeable Lithium-Ion Battery Pack CNB420E	
生产厂家 Manufacturer		/ Entel Philippines	
件数 Pieces		注：本栏内容为托运人或委托人在使用本报告书时填写的运输信息，不属于鉴定内容。运输信息与报告书的关联性以及实际运输货物与报告书的一致性由托运人或委托人保证，如发生任何不一致由托运人或委托人承担全部责任。（请认真填写本栏内容，并盖章） 负责人： 联系方式：	
运单号 Air waybill No.			
目的港 Destination			
物品信息 Nature of the goods		该样品为黑色近长方体电池。 型号：CNB420E 商标：ENTEL 尺寸：（95.3×62.9×18.8）mm 每包装件中电池/电芯数量：100 每包装件中电池/电芯净重：8.8kg 该电池已经做好防短路措施并装入坚固的外包装内。 该锂电池不属于召回电池，不属于废弃和回收电池，并按照DGR3.9.2.6(e)规定的质量体系进行制造 根据委托方所提供的声明：本报告所述锂离子电池（或电芯）交付运输时，其荷电状态不超过设计额定容量的30%。 （注：单块电池的重量为88g。该电池的UN38.3检验报告由中检集团南方电子产品测试（深圳）股份有限公提供，报告编号：SET2018-09998。该电池的1.2米跌落测试报告由中检集团南方电子产品测试（深圳）股份有限公提供，报告编号：SET2018-09999。） This sample is black almost cuboid battery. Model: CNB420E Trademark: ENTEL Size: （95.3×62.9×18.8）mm Number of batteries / cells per package: 100 Net quantity of batteries/cells per package: 8.8kg Batteries have been protected so as to prevent short circuits and packed in strong rigid outer packagings. The lithium batteries don' t belong to batteries returned to the manufacturer for safety reasons, are not waste lithium batteries and not lithium batteries being shipped for recycling or disposal, are manufactured under a quality management program as described in 3.9.2.6(e). Lithium ion cells and batteries must be offered for transport at a state of charge (SoC) not exceeding 30% of their rated design capacity.	



项目编号 Item No.		PEKGZ20180830375			
物品名称 Name of Goods	中文 Chinese	可充式锂离子电池组 CNB420E			
	英文 English	Rechargeable Lithium-Ion Battery Pack CNB420E			
鉴别结论 Conclusions		该货物为锂离子/聚合物电池, 单独包装。额定瓦特小时为9.99Wh。已通过 UN38.3 测试, 已通过包装件1.2米跌落试验, 每个包装件上均有锂电池操作标签(或标记)。 参考有关资料, 根据DGR有关规定, 该物质分类识别为第9类(或项)危险品, UN3480。 This goods is lithium ion/polymer battery, packed individually. Watt-hour rating is 9.99Wh. Each battery is of a type proved to meet the Requirements of each test in the UN MANUAL OF TESTS AND CRITERIA, Part III, sub-section 38.3, Each package is capable of withstanding a 1.2m drop test in any orientation without damage to the cells contained therein, without shifting of the contents so as to allow cell to cell contact and without release of contents, Each package is labelled with lithium battery handling label (or mark). According to IATA DGR this substance is classified as dangerous goods Class (or division)9, UN3480.			
建议运输 条件 Suggestion for Transport Condition	UN/ID 编号 UN/ID No.	运输专用名称 Proper Shipping Name		类或项 Class or Div. (次要危险性) (Subsidiary Risk)	包装等级 Packing Group
	UN3480	Lithium ion batteries		9	
	包装说明 Packing Inst.	客货机 Passenger and Cargo Aircraft	Forbidden		
		仅限货机 Cargo Aircraft only	965 IB		
	注意事项 Remarks	本货物仅限货机运输。 The goods can be transported on cargo aircraft only.			
主检员 Prepared by:		审核人 Checked by:		批准人 Approved by:	
廖嘉欣		梁永强		梁永强	
				报告单位(盖章) Stamp	
				DGM-CHINA	

制单: 廖嘉欣



电池 Battery:



包装件 Package:





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锂电池
符合相关包装说明第II部分

航空运输条件鉴别报告书

Identification and Classification Report for Air Transport of Goods

有效
月31日

此报告本年度有效
有效期至2018年12月31日

报告编号: PEKGZ20180829132GJX0001

Issued No.:

签发日期: 2018. 09. 06

Issued Date:

委托单位: Entel Philippines

Applicant:

物品名称: 可充式锂离子电池组 CNB420E (与手持式对讲机 DX446L 包装在一起)

Name of Goods: Rechargeable Lithium-Ion Battery Pack CNB420E (Packed with Handheld Radio DX446L.)

北京迪捷姆空运技术开发有限公司

Beijing DGM Air Transport Technology Development Co., Ltd.



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电话：010-69479673 传真：010-69479621

网址：www.dgmchina.com.cn E-mail: test@dgmchina.com.cn



项目编号 Item No.		PEKGZ20180829132	
鉴别目的 Identification Purpose		是否属于航空运输危险物品 Dangerous Goods or not restricted	鉴别日期 Indentification Date 2018. 09. 06
鉴别依据 Identification Criteria		IATA DGR 59th, 2018	
物品名称 Name of Goods	中文 Chinese	可充式锂离子电池组 CNB420E (与手持式对讲机 DX446L 包装在一起)	
	英文 English	Rechargeable Lithium-Ion Battery Pack CNB420E (Packed with Handheld Radio DX446L)	
生产厂家 Manufacturer		/ Entel Philippines	
件数 Pieces		注：本栏内容为托运人或委托人在使用本报告书时填写的运输信息，不属于鉴定内容。运输信息与报告书的关联性以及实际运输货物与报告书的一致性由托运人或委托人保证，如发生任何不一致由托运人或委托人承担全部责任。（请认真填写本栏内容，并盖章） 负责人： 联系方式：	
运单号 Air waybill No.			
目的港 Destination			
物品信息 Nature of the goods		该样品为黑色近长方体电池。 型号：CNB420E 商标：ENTEL 尺寸：（95.3×62.9×18.8）mm 每包装件中电池/电芯数量：16 每包装件中电池/电芯净重：1.408kg 该电池已经做好防短路措施并装入坚固的外包装内。 该锂电池不属于召回电池，不属于废弃和回收电池，并按照DGR3.9.2.6(e)规定的质量体系进行制造（注：单块电池的重量为88g。该电池的UN38.3检验报告由中检集团南方电子产品测试（深圳）股份有限公提供，报告编号：SET2018-09998。该电池的1.2米跌落测试报告由中检集团南方电子产品测试（深圳）股份有限公提供，报告编号：SET2018-10000。设备：手持式对讲机；型号：DX446L；商标：ENTEL。每台设备与1块电池包装在一起，每包装件内含16台设备。） This sample is black almost cuboid battery. Model: CNB420E Trademark: ENTEL Size: （95.3×62.9×18.8）mm Number of batteries / cells per package: 16 Net quantity of batteries/cells per package: 1.408kg Batteries have been protected so as to prevent short circuits and packed in strong rigid outer packagings. The lithium batteries don' t belong to batteries returned to the manufacturer for safety reasons, are not waste lithium batteries and not lithium batteries being shipped for recycling or disposal, are manufactured under a quality management program as described in 3.9.2.6(e).	

年
8月



项目编号 Item No.		PEKGZ20180829132			
物品名称 Name of Goods	中文 Chinese	可充式锂离子电池组 CNB420E (与手持式对讲机 DX446L 包装在一起)			
	英文 English	Rechargeable Lithium-Ion Battery Pack CNB420E (Packed with Handheld Radio DX446L)			
鉴别结论 Conclusions		该货物为锂离子/聚合物电池, 和设备包装在一起。额定瓦特小时为9.99Wh。已通过 UN38.3 测试, 已通过包装件1.2米跌落试验, 每个包装件上均有锂电池操作标签 (或标记)。 锂离子电池符合包装说明966第II部分。 This goods is lithium ion/polymer battery,packed with equipment.Watt-hour rating is 9.99Wh.Each battery is of a type proved to meet the Requirements of each test in the UN MANUAL OF TESTS AND CRITERIA, Part III, sub-section 38.3,Each package is capable of withstanding a 1.2m drop test in any orientation without damage to the cells contained therein, without shifting of the contents so as to allow cell to cell contact and without release of contents,Each package is labelled with lithium battery handling label (or mark). lithium ion batteries in compliance with Section II of PI 966.			
建议运输条件 Suggestion for Transport Condition	UN/ID 编号 UN/ID No.	运输专用名称 Proper Shipping Name		类或项 Class or Div. (次要危险性) (Subsidiary Risk)	包装等级 Packing Group
	/	/		/	/
	包装说明 Packing Inst.	客货机 Passenger and Cargo Aircraft	/		
		仅限货机 Cargo Aircraft only	/		
	注意事项 Remarks	每一单电池必须做好防短路措施, 并装入坚固外包装内。 each single battery must be packed in such a way as to prevent short circuits under the normal conditions and packed in strong outer packagings.			
主检员 Prepared by:		审核人 Checked by:		批准人 Approved by:	
廖嘉欣		郑晓锐		报告单位 (盖章) Stamp	

制单: 廖嘉欣



海运运输条件鉴别报告书

Identification and Classification Report for Sea Transport of Goods

物 品 名 称 Name of Goods	可充电锂离子电池组 CNB420E Rechargeable Lithium-Ion Battery Pack CNB420E
委 托 单 位 Applicant	Entel Philippines
生 产 单 位 Manufacturer	Entel Philippines
签 发 日 期 Issued Date	2018.09.10



中检集团南方电子产品测试（深圳）股份有限公司

CCIC Southern Electronic Product Testing (Shenzhen) CO., Ltd.

地 址：深圳市南山区西丽街道沙河路 43 号电子检测大厦	邮政编码/P.C.：518055
Address: Electronic Testing Building No.43 Shahe Road, Xili Road, Nanshan District, ShenZhen, Guangdong, China	
电话/TEL：86-755-26627338	传真/FAX：86-755-26627238
网址/Internet： http:// www.ccic-set.com	电子信箱/E-Mail：manager @ccic-set.com

海洋运输条件鉴别报告书 Identification and Classification Report for Sea Transport of Goods			
物品名称 Name of Goods	中文名称 Name of Chinese	可充电锂离子电池组 CNB420E	
	英文名称 Name of English	Rechargeable Lithium-Ion Battery Pack CNB420E	
鉴别目的 Identification Purpose	是否属于海运危险物品 Dangerous Goods or not restricted	鉴别日期 Identification Date	2018.09.10
鉴别依据 Identification Criteria	IMDG CODE (inc Amdt 38-16)	鉴别地点 Identification Address	深圳
生产厂家 Manufacturer	Entel Philippines		
物品信息 Item information	该样品为可充电锂离子电池组 型号: CNB420E 商标: ENTEL 包装件尺寸: 310mm*315mm*325mm 每个包装件中电池/电芯数量: 100 每包装件中的毛重: 10.94 kg This sample is Rechargeable Lithium-Ion Battery Pack Model: CNB420E Trademark: ENTEL Size: 310mm*315mm*325mm Number of batteries/cells per package: 100 Gross weight of each package: 10.94kg		
鉴别结论 Conclusion	符合海运要求 IMDG CODE 特殊规定 188 和 230 Conform IMDG CODE Special Provision 188 and 230		
备注 Remark	每一电池必须做好防短路措施, 并装入坚固外包装内。 Each single battery must be packed in such a way as to prevent short circuits under the normal conditions and packed in strong outer packings.		

主检员:

唐鹏森

审核人:

印 彪

批准人:

邱春涛

(Prepared by):

(Checked by):

(Approved by):

物品名称 Name of Goods	中文名称 Name of Chinese	可充电锂离子电池组 CNB420E
	英文名称 Name of English	Rechargeable Lithium-Ion Battery Pack CNB420E
鉴别项目名称 Item		检查结果 Inspection Result
该电池额定瓦特小时数 9.99 Wh Watt-hour rating of the battery is 9.99 Wh		≤100Wh
锂电池已通过 UN38.3 测试 The lithium battery has passed the UN38.3 test		符合 Conform
电池按照规定的质量管理体系进行制造 Batteries be manufactured under a quality management program		符合 Conform
该电池不属于召回电池，不属于废弃和回收电池 The lithium batteries don't belong to batteries returned to the manufacturer for safety reasons, are not waste lithium cells and not lithium batteries being shipped for recycling disposal		符合 Conform
包装件通过 1.2m 跌落试验 Each package is capable of withstanding a 1.2m drop test in any orientation		符合 Conform
每个包装件上均由锂电池操作标签。 每票货物均有随附文件说明：包装件内装锂离子电池；必须小心操作。如包装件破损，有易燃危险性；包装件破损时应采取的特殊措施，包括必要时的检查和重新包装；应急电话号码。 Each package is labeled with lithium battery handing label. Each consignment is accompanied with a document with an indication that: the package contains lithium battery; the package must be handled with care, and that a flammability hazard exists if the package is damaged; special procedures should be followed in the event the package is damaged, to include a telephone number for additional information.		符合 Conform

图片 (Photos)

包装件(package):



设备(equipment):

//

电池(battery):



报 告 书 使 用 约 定

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地 址：深圳市南山区西丽街道沙河路 43 号电子检测大厦

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海运运输条件鉴别报告书

Identification and Classification Report for Sea Transport of Goods

可充电锂离子电池组 CNB420E（与手持式对讲机 DX446L 包装在一起）

物 品 名 称 Name of Goods	Rechargeable Lithium-Ion Battery Pack CNB420E（Packed with handheld radio DX446L）
委 托 单 位 Applicant	Entel Philippines
生 产 单 位 Manufacturer	Entel Philippines
签 发 日 期 Issued Date	2018.09.10



中检集团南方电子产品测试（深圳）股份有限公司

CCIC Southern Electronic Product Testing (Shenzhen) CO., Ltd.

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海洋运输条件鉴别报告书 Identification and Classification Report for Sea Transport of Goods			
物品名称 Name of Goods	中文名称 Name of Chinese	可充电锂离子电池组 CNB420E (与手持式对讲机 DX446L 包装在一起)	
	英文名称 Name of English	Rechargeable Lithium-Ion Battery Pack CNB420E (Packed with handheld radio DX446L)	
鉴别目的 Identification Purpose	是否属于海运危险物品 Dangerous Goods or not restricted	鉴别日期 Identification Date	2018.09.10
鉴别依据 Identification Criteria	IMDG CODE(inc Amdt 38-16)	鉴别地点 Identification Address	深圳
生产厂家 Manufacturer	Entel Philippines		
物品信息 Item information	该样品为可充电锂离子电池组 型号: CNB420E (与手持式对讲机 DX446L 包装在一起) 商标: ENTEL 包装件尺寸: 675mm*395mm*195mm 每个包装件中电池/电芯数量: 16 每包装件中的毛重: 11.60 kg This sample is Rechargeable Lithium-Ion Battery Pack CNB420E Model: CNB420E (Packed with handheld radio DX446L) Trademark: ENTEL Size: 675mm*395mm*195mm Number of batteries/cells per package: 16 Gross weight of each package: 11.60kg		
鉴别结论 Conclusion	符合海运要求 IMDG CODE 特殊规定 188 和 230 Conform IMDG CODE Special Provision 188 and 230		
备注 Remark	每一电池必须做好防短路措施, 并装入坚固外包装内。 Each single battery must be packed in such a way as to prevent short circuits under the normal conditions and packed in strong outer packings.		

主检员: 唐鹏森
(Prepared by):

审核人: 印刷
(Checked by):

批准人: 邱春涛
(Approved by):

物品名称 Name of Goods	中文名称 Name of Chinese	可充电锂离子电池组 CNB420E (与手持式对讲机 DX446L 包装在一起)
	英文名称 Name of English	Rechargeable Lithium-Ion Battery Pack CNB420E (Packed with handheld radio DX446L)
鉴别项目名称 Item		检查结果 Inspection Result
该电池额定瓦特小时数 9.99 Wh Watt-hour rating of the battery is 9.99 Wh		≤100Wh
锂电池已通过 UN38.3 测试 The lithium battery has passed the UN38.3 test		符合 Conform
电池按照规定的质量管理体系进行制造 Batteries be manufactured under a quality management program		符合 Conform
该电池不属于召回电池, 不属于废弃和回收电池 The lithium batteries don't belong to batteries returned to the manufacturer for safety reasons, are not waste lithium cells and not lithium batteries being shipped for recycling disposal		符合 Conform
包装件通过 1.2m 跌落试验 Each package is capable of withstanding a 1.2m drop test in any orientation		符合 Conform
每个包装件上均由锂电池操作标签。 每票货物均有随附文件说明: 包装件内装锂离子电池; 必须小心操作。如包装件破损, 有易燃危险性; 包装件破损时应采取的特殊措施, 包括必要时的检查和重新包装; 应急电话号码。 Each package is labeled with lithium battery handing label. Each consignment is accompanied with a document with an indication that: the package contains lithium battery; the package must be handled with care, and that a flammability hazard exists if the package is damaged; special procedures should be followed in the event the package is damaged, to include a telephone number for additional information.		符合 Conform

图片 (Photos)

包装件(package):



设备(equipment):



电池(battery):



报告书使用约定

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1. 本检测报告是依据委托人（托运人或其代理人）提供的物品及其运输信息，确定货物的航空运输条件并出具此报告书。

The report is issued according the information of the goods and its shipment provided by the applicant(shipper or his agent).

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