

JPTUV-121001

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

CB TEST CERTIFICATE

Product

Name and address of the applicant

Name and address of the manufacturer

Name and address of the factory

Ratings and principal characteristics

Trademark (if any)

Customer's Testing Facility (CTF) Stage used Model / Type Ref.

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

As shown in the Test Report Ref. No. which forms part of this Certificate

Li-ion Batterv

best systems gmbh

Siebenhirtenstrasse Objekt 5, 12A 1230 Vienna, Österreich

HOWELL ENERGY CO LTD

B1010, GenZon Times Square

Longgang Centre, Shenzhen, 518000 Guangdong, P.R. China

HOWELL ENERGY CO LTD B1010, GenZon Times Square

Longgang Centre, Shenzhen, 518000 Guangdong, P.R. China

24V, 11000mAh, 264.0Wh

LEDUP

N/A

HW-7F11 LEDUP 11Ah

IEC 62133-2:2017

See Test Report for National Differences

CN21CUPF 001

This CB Test Certificate is issued by the National Certification Body



TÜV Rheinland Japan Ltd.

Global Technology Assessment Center 4-25-2 Kita-Yamata, Tsuzuki-ku Yokohama 224-0021, Japan

Phone + 81 45 914-3888 Fax + 81 45 914-3354

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Web: www.tuv.com

Date: 2021-04-08 Signature:

O.C.Chen







Report No.: 18270BC10026101

Lithium Battery UN38.3 Test Report

Client Name

best systems gmbh

Address

Siebenhirtenstrasse 12A - Objekt 5, 1230 vienna, austria

Product Name

Li-ion Battery

Date

Jan. 30, 2021

Shenzhen Anbotek Compliance Laboratory Limited

* Approved



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1. SAMPLE DESCRIPTION:

Sample Name:	Anbo	Li-io	on battery	potek	Sample Mode	el: HW-7F1	1 Anbose	ar alk		
Manufacturer:	Pr	НО	WELL ENERGY CO L	TD TO	at Anos	rek Anbote	ik anb	o,_		
Address of manufac	cturer:		B1010, GenZon Times Square Longgang Centre, Shenzhen,518000 Guangdong, P.R. China							
Factory:	Anborek	НО	WELL ENERGY CO L	TD	Anbotek	Auport Deak	Anbotek	P		
Address of factory:	Anbot		10, GenZon Times So angdong, P.R. China	quare L	onggang Cer	ntre, Shenzher	n,518000			
Nominal Voltage:	24V M	Anbot	Rated Capacity:	11Ah 264V	ek you	Trademark:	ntek / And	nbotek		
Charge Current:	2A nbotek	pri	Maximum Continuous Charge Current:	5A	Anbotek An	End Charge Current:	0.11A	Anbo		
Cut-off Voltage:	17.5V	orek	Maximum Discharge Current:	6A	Anborek	Limited Charg Voltage:	ge 29.4V	re ^{jk}		
Cells Number:	28	hpote	Cell Model:	INR1	8650-29E	Cell Rated Capacity:	2.85A	h		
Date of Sample Rece	eived:	Jan	. 19, 2021	Anb	or An	shatek An	potek	Pupo		
Date of Test:	upote.	Jan	an. 19, 2021 to Jan. 28, 2021							
7/.	34.80		-05	AL.	5~O'	27/	16			

Tested by: Fasan Won

Checked by: jely lang

Approved by:

Davis Yang

www.anbotek.com

400-003-0500



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2. REFERENCE METHOD

United Nations Recommendations On The Transport Of Dangerous Goods, Manual Of Tests And Criteria (ST/SG/AC.10/11/Rev.6/Amend.1)

3. EQUIPMENT LIST

Name of equipment /Model	Serial No.	Due Date
Low Pressure Test Machine BE-DY-125	SE-132	2021-03-10
BE-DY-125 High Fast Temperature&Humidity Chamber	SE-132	2021-03-10
High Fast Temperature&Humidity Chamber	SE-1488	2024 00 00
ZJ-KSWB1506	SE-1466	2021-08-09
Vibration Machine	SE-439	
	SE-439	2021-09-27
Shock Machine HSKT-10	SE-440	2021-04-01
HSKT-10 Thermostat Short-circuit Testing Machine	SE-440	2021-04-01
0	SE-133	2021-03-10
BE-1000W Impact Testing Machine	SE-133	2021-03-10
Impact Testing Machine	SE-136	2021-07-12
BE-5060 Rattery Charge And Discharge System	Anborra Anborra	2021-07-12
Battery Charge And Discharge System CT-4002-80V40A-NA	SE-1507	2021-08-09
	3L-1307	2021-00-09
	SE-511	2021-03-10
MS8040	SE-STIT	2021-03-10
Electronic scale	SE-1483	2021-07-12
CHS-D Temperature rise recorder	Anbara Anbara	otek Anbo
Temperature rise recorder	SE-004	2021-03-15
34970A	SE-004	2021-00-10





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4. ENVIRONMENTAL CONDITIONS OF THE TEST

Temperature: (20±5) °C R.H.: (40~70) %RH

5. TEST ITEM AND CONCLUSION

ITEM AT MODOTER AT	SAMPLE NUMBER	STANDARD	CONCLUSION
Altitude simulation	B1~B4, B5~B8	Anbotes Anbo	PASS
Thermal test	Anbore Ans hotek	Anbotek Anbo	PASS
Vibration	Anbore. And	tek Aupotek Aupo	PASS
Shock	ek Anborer Ann	ST/SG/AC.10/11/Rev.	PASS
External short circuit	potek Anboten An	6/Amend.1	PASS
Impact	C1~C5, C26~C10	Anbotek Anbotek	PASS
Overcharge	B9~B12, B13~B16	Anbo otek Anbotek	PASS
Forced discharge	C11~C20, C21~C30	Anbo stek anbot	PASS

Notes:

B1~B4: Batteries at first cycle in fully charged states;

B5~B8: Batteries after 25 cycles ending in fully charged states;

B9~B12: Batteries at first cycle in fully charged states;

B13~B16: Batteries after 25 cycles ending in fully charged states.

C1~C10: Single cell batteries at first cycle in fully charged states;

C11~C20: Cells after 25 cycles ending in fully discharged states.

C21~C25: Cells at first cycle at 50% of the design rated capacity;

C26~C30: Cells at 25 cycle at 50% of the design rated capacity;





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TEST METHOD

Tests T.1 to T.5 shall be conducted in sequence on the same cell or battery. Tests T.6 and T.8 shall be conducted using not otherwise tested cells or batteries. Test T.7 may be conducted using undamaged batteries previously used in tests T.1 to T.5 for purposes of testing on cycled batteries. In order to quantify the mass loss, the following procedure is provided:

Mass loss(%) = $(M1-M2) / M1 \times 100$

Where M1 is the mass before the test and M2 is the mass after the test. When mass loss does not exceed the values in Table blow, it shall be considered as "no mass loss".

Mass M of cell or battery	Mass loss limit
M<1(g)	0.5%
1g≤M≤75(g)	0.2%
M>75(g)	0.1%

T.1 Altitude simulation

Test cells and batteries shall be stored at a pressure of 11.6 kPa or less for at least six hours at ambient temperature (20 ± 5 °C).

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 cell or battery 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.

T.2 Thermal test

Test cells and batteries are to be stored for at least six hours at a test temperature equal to $72 \pm 2^{\circ}$ C, followed by storage for at least six hours at a test temperature equal to $-40 \pm 2^{\circ}$ C. The maximum time interval between test temperature extremes is 30 minutes. This procedure is to be repeated until 10 total cycles are complete, after which all test cells and batteries are to be stored for 24 hours at ambie nt temperature ($20 \pm 5^{\circ}$ C). For large cells and batteries the duration of exposure to the test temperature extremes should be at least 12 hours.

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 cell or battery 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.

T.3 Vibration

Cells and batteries are firmly secured to the platform of the vibration machine without distorting the cells in such a manner as to faithfully transmit the vibration. The vibration shall be 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 shall differ for cells and batteries with a gross mass of not more than 12 kg (cells and small batteries), and for batteries with a gross mass of more than 12 kg (large batteries).

For cells and small batteries: from 7 Hz a peak acceleration of 1 gn 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 8 gn occurs (approximately 50 Hz). A peak acceleration of 8 gn is then maintained until the frequency is increased to 200 Hz.

For large batteries: from 7 Hz to a peak acceleration of 1 gn 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





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peak acceleration of 2 gn occurs (approximately 25 Hz). A peak acceleration of 2 gn is then maintained until the frequency is increased to 200 Hz.

Cells and batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire during the test and after the test and if the open circuit voltage of each test cell or battery directly after testing in its third perpendicular mounting position 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.

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 gn and pulse duration of 6 milliseconds. Alternatively, large cells may be subjected to a half-sine shock of peak acceleration of 50 gn 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 $Acceleration(gn) = \sqrt{\frac{100850}{mass*}}$ whichever is smaller	Anbotek Anbote Anbotek Anbotek Anbote otek Anbotek Anb
Large batteries	50 g _n or result of formula $Acceleration(gn) = \sqrt{\frac{30000}{mass*}}$ whichever is smaller	Anbotek Anbotek Anbotek Anbotek

^{*} 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.

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 cell or battery 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.

T.5 External short circuit

The cell or battery to be tested shall be shall be heated for a period of time necessary to reach a homogeneous stabilized temperature of $57\pm4^{\circ}$ 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 $57\pm4^{\circ}$ 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 $57\pm4^{\circ}$ 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. 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 during the test and within six hours after the test.

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T.6 Impact / Crush

Impact (applicable to cylindrical cells greater than 18 mm in diameter)

The sample cell or component cell is to be placed on a flat smooth surface. A 15.8 mm \pm 0.1mm 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 \pm 0.1 kg mass is to be dropped from a height of 61 \pm 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 \pm 0.1mm 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)

A cell 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.

Once the maximum pressure has been obtained, the voltage drops by 100 mV or more, or the cell is deformed by at least 50% of its original thickness, the pressure shall be released.

A prismatic or pouch cell shall be crushed by applying the force to the widest side. A button/coin cell shall be crushed by applying the force on its flat surfaces. For cylindrical cells, the crush force shall be applied perpendicular to the longitudinal axis.

Each test cell or component cell is to be subjected to one crush only. The test sample shall be observed for a further 6 h. The test shall be conducted using test cells or component cells that have not previously been subjected to other tests.

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

T.7 Overcharge

The charge current shall be twice the manufacturer's recommended maximum continuous charge current. The minimum voltage of the test shall be as follows:

- (a) When the manufacturer's recommended charge voltage is not more than 18V, the minimum voltage of the test shall be the lesser of two times the maximum charge voltage of the battery or 22V.
- (b) When the manufacturer's recommended charge voltage is more than 18V, the minimum voltage of the test shall be 1.2 times the maximum charge voltage.

Tests are to be conducted at ambient temperature; the duration of the test shall be 24 hours. Rechargeable batteries meet this requirement if there is no disassembly and no fire during the test and within seven days after the test.

T.8 Forced discharge

Each cell shall be 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. The specified discharge current is to be obtained by connecting a resistive load of the appropriate size and rating in series with the test cell. Each cell shall be forced discharged for a time interval (in hours) equal to its rated capacity divided by the initial test current (in ampere).

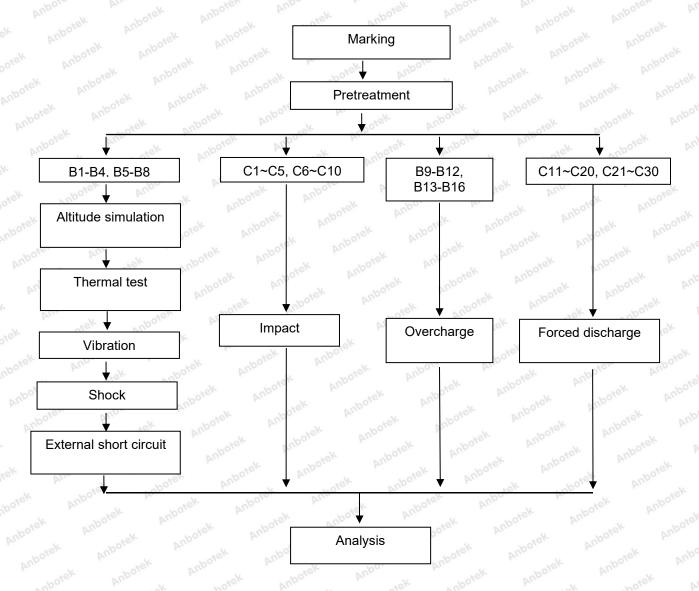
Primary or rechargeable cells meet this requirement if there is no disassembly and no fire during the test and within seven days after the test.





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7. TEST PROCEDURE





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8. DATA

T.1 Altitude simulation

No.	No. Pre-test		Pre-test After test		Mass	Voltage	Whether leakage,
Anborek	Mass (g)	Voltage (V)	Mass (g)	Voltage (V)	loss (%)	loss (%)	venting, disassembly, rupture, fire (Y/N)
B1, ote	2735.48	29.23	2735.48	29.23	0.00	0.00	AndN
B2	2730.16	29.18	2729.76	29.18	0.01	0.00	rek Notes
B3 M	2718.11	29.25	2718.11	29.24	0.00	0.03	N *ek
B4	2727.15	29.21	2727.15	29.21	0.00	0.00	hotek Nanbo
B5	2722.96	29.17	2722.81	29.17	0.01	0.00	Tun K N Polsk
B6	2723.64	29.22	2723.64	29.22	0.00	0.00	anbore N And
B7	2725.37	29.24	2725.37	29.23	0.00	0.03	atel Anbore
B8	2721.52	29.19	2721.52	29.19	0.00	0.00	Anto N

T.2 Thermal test

No.	hotek Pro	-test	Δfte	r test	Mass	Voltage	Whether leakage,
unbotek	Mass Voltage (V)		Mass Voltage (V)		loss (%)	Loss (%)	venting, disassembly, rupture, fire (Y/N)
B1	2735.48	29.23	2735.01	28.96	0.02	0.92	Di Ne
B2	2729.76	29.18	2728.89	28.93	0.03	0.86	anboN Air
В3	2718.11	29.24	2717.64	28.99	0.02	0.85	Notek D
B4	2727.15	29.21	2726.63	28.94	0.02	0.92	AN Y
B5	2722.81	29.17	2722.22	28.91	0.02	0.89	tek Nabotes
B6	2723.64	29.22	2723.17	28.96	0.02	0.89	ipo N sek
B7	2725.37	29.23	2724.74	28.94	0.02	0.99	hotek N Anbo
B8	2721.52	29.19	2721.03	28.92	0.02	0.92	And shorek

T.3 Vibration

4	No. no	Pre-test		After test		Mass	Voltage	Whether leakage,
otek		Mass (g)	Voltage (V)	Mass (g)	Voltage (V)	loss (%)	Loss (%)	venting, disassembly, rupture, fire (Y/N)
11/20	B1	2735.01	28.96	2735.01	28.96	0.00	0.00	otek N anbore
	B2	2728.89	28.93	2728.89	28.93	0.00	0.00	Anbo N
Di.	B3	2717.64	28.99	2717.64	28.98	0.00	0.03	bot N Anbo
	B4	2726.63	28.94	2726.47	28.94	0.01	0.00	N _e k
	B5	2722.22	28.91	2722.22	28.91	0.00	0.00	sk audy, an
	B6	2723.17	28.96	2723.17	28.95	0.00	0.03	N Notek
,eK	B7	2724.74	28.94	2724.74	28.94	0.00	× 0.00	of N
	B8	2721.03	28.92	2720.88	28.92	0.01	0.00	tek Nanbote





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T.4 Shock

Peak acceleration: 150 gn, Pulse duration: 6 ms

No.	No. Pre-test		After test		Mass	Voltage	Whether leakage,
Anbotek	Mass (g)	Voltage (V)	Mass (g)	Voltage (V)	loss (%)	Loss (%)	venting, disassembly, rupture, fire (Y/N)
B1	2735.01	28.96	2735.01	28.96	0.00	0.00	N N
B2	2728.89	28.93	2728.74	28.93	0.01	0.00	orek ph
B3	2717.64	28.98	2717.64	28.98	0.00	0.00	Lek Nabotek
B4	2726.47	28.94	2726.47	28.93	0.00	0.03	Way Name
B5	2722.22	28.91	2722.22	28.91	0.00	0.00	work N Anbor
B6	2723.17	28.95	2723.17	28.95	0.00	0.00	And N hote
B7.	2724.74	28.94	2724.74	28.93	0.00	0.03	nbote N And
B8	2720.88	28.92	2720.65	28.92	0.01	0.00	N/A VO

T.5 External short circuit

No.	Peak temperature (°C)	Whether disassembly, rupture, fire (Y/N)						
B1/bot	58.4	Anbor Anborr An						
B2	58.8	anbote And N botek Anbo.						
B3 And	58.1	And						
B4 Anborr	58.4	And K Nek Anborr Air						
B5	58.2	tek anbore. Ann ok borek						
B6 Am	58.6	Moore And						
B7	58.5	boten Anbo N solek Anbore						
B8	58.1	tek nbotel NAnh						

T.6 Impact

Anbor No.	Peak temperature	(°C) Whe	ether disassembly, f	ire (Y/N)
C1	80.1	Anbore. And	Notek	Aupo.
C2	84.8	riek out	ON OK	Polek
C3	86.5	ANDO	otek Nanbor	All
C4 del	82.9	k abover	Anb N .o.	iek Aupore
bote C5	84.7	bi.	aboter N And	k sorel
C6	84.1	otek Anbo,	,eW	poter And
Anbo C7	86.3	-k hotek	Aupo, N	tek anbo
wotek C8 An	85.5	upote, Aug	K MY	Aupo.
C9	82.9	olek vupote	An N ak	potek A
C10	84.4	Anbo	Jek Note	Vu





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T.7 Overcharge

*ek	No.	V.	, V	hotek W	hether disa	assemb	ly, fire (Y/N)	poter	Ano.
Upo.	B9	rek	"upote.	And	hotek	N p	upo.	riek	upore
POLEK	B10		rek	Anbore	Vun	_K N	bolek	Aupo	P. 046
VII.	B11	poter	Aupe	Lotek	Anbo	N	All	poter	Anbo
Vupo,	B12	-xek	aboter	Aug	.\.	~N	Vupo,	bu.	ek al
	B13	Anbo.	p.	tek nbo	Vic. Vi	N .k	hotek	Anbo	Α.
Vu	B14	, bot	Sk Aupo	, ,	rek	No.	VIII	ak al	ootek
YSK.	B15	bu.	vek .	boten Ar	100	N	ick pupo	V.	*ek
V	B16	An	00, b.	ek	apoter	Nus	-V-	rotek	Vupo,

T.8 Forced discharge

Die	No.	Pole	Whether disassembly, fire (Y/N)
Aupo,	C11	Pur	k Nek Anbor An
V.	C12	Anboy	Arek Viposes Will Not Nosek Vipos
br.	C13	ik al	ofer And Lorek Nipole And tek polen
otek	C14	120	tek upoter And K N hotek Anbo. An
	C15	otek	Indo Mand N And N Moter Ando
upore	C16	-ak	abotek Anbo K ntek N anbote Ant tek abote
-orek	C17	upor	Ari tek abotek And N botek Anbot Ari
AUG	C18	hotek	Anbo, Al tek upoten Aug ak potek Aug
nboth	C19	And	Nek unboth And
· ·	C20	Anbore	An above Anti Catek Anbore A
YU.	C21	, in	stek Aupon All sek Nooten Aupon k hotek
Yer	C22	AUG	ok potek Aupo, N sek upote, Aun
	C23	rek n	upose Ame of potest Nanboo Mest upose
botek	C24	V	notek Albore All rok N spotek Albo
xek	C25	aboter	Aug K Potek Wipou N W. Tek Woter Win
Aupo.	C26	rek	anbores And ak horeN Anbor Ar arek anbor
-bote	C27	Aupo.	atek Anbores Ans Nak aborek Anbo
D.	C28	poter	And wek anon An eck abover A
Anb	C29	Dr.	ek nboten And k Notek Anbot An tek
ak	C30	Anbe	Anbore Anbore Anbo



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9. PHOTOS OF THE SAMPLE

Battery





MODEL NUMBER	HW-7F11	
VOLTAGE	24V	
CAPACITY	11Ah 264Wh	
Product Name	Li-ion battery	

Cell





Shenzhen Anbotek Compliance Laboratory Limited

Hotline 400-003-0500 www.anbotek.com



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DECLARATION

- United Nations Recommendations On The Transport Of Dangerous Goods, Manual Of Tests And Criteria(ST/SG/AC.10/11/Rev.6/Amend.1).
- Test place Lab: Shenzhen Anbotek Compliance Laboratory Limited
 Address: East of 4/F., Building A, Hourui No.3 Industrial Zone, Xixiang Street,
 Bao'an District, Shenzhen, Guangdong, China
- 3. This report shall not be revised and deleted.
- 4. The test results presented in this report are only relevant to the test sample.
- 5. This report shall not be published as advertisement without the approval of Shenzhen Anbotek Compliance Laboratory Limited.
- This report shall not be copied partly without the written approval of Shenzhen Anbotek Compliance Laboratory Limited.

-- End of report --

