



新普科技股份有限公司  
新世電子(常熟)有限公司  
新普科技(重慶)有限公司  
華普電子(常熟)有限公司

Control Number: SACU-2110001

# Rechargeable Li-ion Battery UN38.3 Test Report

## Recommendations on the TRANSPORT OF DANGEROUS GOODS

(Manual of Tests and Criteria, Seventh revised edition)




**Customer: ACER**

**Model: AP21B7Q**

**Rating/ Mass: 15.48V, TYP 4930mAh/ 76Wh  
Rated 4830mAh/ 74Wh/ 288(g)**

**Version of Test Report: 01**

**Issue date: 2021/10/18**

Approved By	Checked By	Prepared By
Project Manager	Authorized Signatory	Test Engineer
		

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Email : [Test\\_Lab@simplo.com.tw](mailto:Test_Lab@simplo.com.tw)

Website : <http://www.simplo.com.tw/>

Form No. : W11-002-B05

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## 1. Purpose of the Test :

To test each cell/battery is of the type proved to meet the requirements in United Nations Recommendations on the TRANSPORT OF DANGEROUS GOODS, Manual of Tests and Criteria, Seventh revised edition, Section 38.3.

## 2. Test Result :

Test results of the UN Recommendations on the Transport of Dangerous Goods

No.	Test Item	Test results
T.1	Altitude simulation	PASS
T.2	Thermal test	PASS
T.3	Vibration test	PASS
T.4	Shock test	PASS
T.5	External short circuit	PASS
T.6	Impact, Crush test	PASS
T.7	Overcharge	PASS
T.8	Forced discharge	PASS

## 3. Test Lab: Email : [Test\\_Lab@simplo.com.tw](mailto:Test_Lab@simplo.com.tw) Website : <http://www.simplo.com.tw/>

●	SIMPLO (Taiwan) Laboratory ADD : No. 471 Pa Teh Rd, Sec 2 Hu Kou, Hsinchu Hsien, 303 Taiwan TEL: +886-3-5695920 FAX: +886-3-5695931
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Control Number: SACU-2110001

4. Product manufacturer : Email : [Test\\_Lab@simplo.com.tw](mailto:Test_Lab@simplo.com.tw) Website : <http://www.simplo.com.tw/>

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## 5. Test Quantity :

- 5.1 Four batteries, at first cycle, in fully charged states. (For T.1~T.5)
- 5.2 Four batteries, after 25 cycles ending in fully charged states. (For T.1~T.5)
- 5.3 Five component cells, at first cycle at 50% of the design rated capacity. (For T.6)
- 5.4 Five component cells, after 25 cycles at 50% of the design rated capacity. (For T.6)
- 5.5 Four batteries, at first cycle, in fully charged states. (For T.7)
- 5.6 Four batteries, after 25 cycles ending in fully charged states. (For T.7)
- 5.7 Ten component cells, at first cycle in fully discharge states. (For T.8)
- 5.8 Ten component cells, after 25 cycles ending in fully discharged states. (For T.8)

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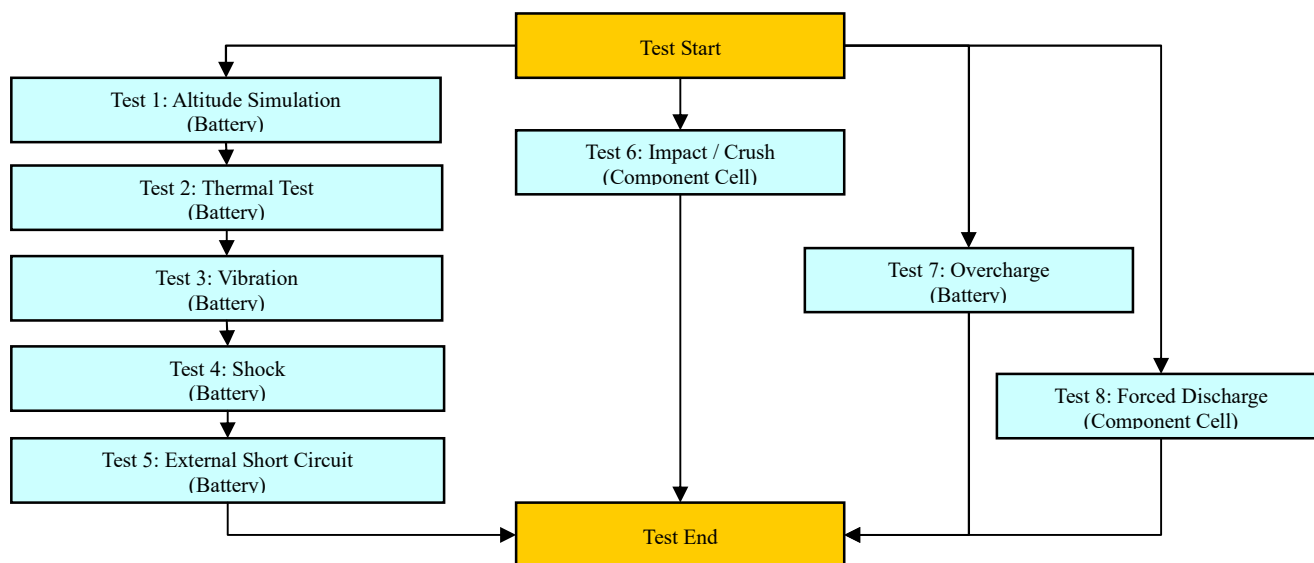
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## 6. Test Procedure :

6.1 All detailed test procedures must be based on United Nations Recommendations on the TRANSPORT OF DANGEROUS GOODS, Manual of Tests and Criteria, Seventh revised edition, Section 38.3.

6.2 Test flow shall be followed as below.



**Conclusion: The samples had passed the test items of UN38.3.**

## 7. Comment :

Version	Modify content	Issue date
01	First publish	2021/10/18





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Control Number: SACU-2110001

## 8. Test Equipment :

**SMP** SIMPLO TECHNOLOGY CO., LTD.

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Revised Date: 2021-10-18

Test Instruments Reference List								
Used	Instrument ID	Instrument Name	Type	Range of use	Manufacturer	Calibration Date_Last	Calibration Date_Next	Remarks
	<b>Pretest</b>							
V	ML-761	Learning	715C	0~18V 0~8A	SMP	2021/2/4	2022/3/4	
V	ML-762	Learning	715C	0~18V 0~8A	SMP	2021/1/4	2022/2/4	
V	ML-763	Learning	715C	0~18V 0~8A	SMP	2021/2/4	2022/3/4	
V	ML-764	Learning	715C	0~18V 0~8A	SMP	2021/1/4	2022/2/4	
	ML-925	Learning	750C8	0~60V 0~30A	SMP	2021/1/4	2022/2/4	
	<b>T.1 Altitude Simulation</b>							
V	ML-522	Altitude	SVT-120	kPa:30~90	HSIN JIANG	2021/6/11	2022/7/11	
V	ML-257	Multimeter	34401A	Note 1	Agilent	2021/2/4	2022/3/4	
V	ML-955	Electronic Balance	UX1020H	1-1220 gf	SHIMADZU	2021/1/4	2022/2/4	
	ML-1035	Electronic Balance	JWI-700W	30*0.005kg	JADEVER	2021/6/11	2022/7/11	
V	ML-550	Data Logger	313	15~35 °C; 30~80 %RH	CENTER	2021/7/28	2022/8/28	
V	ML-964	Barometric Air Pressure	MP55	750 to 1100 mbar	KIMO	2021/6/10	2022/7/10	
	<b>T.2 Thermal Test</b>							
V	ML-789	Thermal Shock	GTST-080-65-AW	T:-40 to 100°C	GF	2021/1/4	2022/2/4	
V	ML-257	Multimeter	34401A	note 1	Agilent	2021/2/4	2022/3/4	
V	ML-955	Electronic Balance	UX1020H	1-1220 gf	SHIMADZU	2021/1/4	2022/2/4	
	ML-1035	Electronic Balance	JWI-700W	30*0.005kg	JADEVER	2021/6/11	2022/7/11	
V	ML-551	Data Logger	313	15~35 °C; 30~80 %RH	CENTER	2021/7/28	2022/8/28	
	<b>T.3 Vibration</b>							
V	ML-233	Vibration	KD-9636-EM-300F2K-30N80	F:5~2000Hz G:0.2~20G	King Design	2021/7/29	2022/7/29	
V	ML-257	Multimeter	34401A	note 1	Agilent	2021/2/4	2022/3/4	
V	ML-955	Electronic Balance	UX1020H	1-1220 gf	SHIMADZU	2021/1/4	2022/2/4	
	ML-1035	Electronic Balance	JWI-700W	30*0.005kg	JADEVER	2021/6/11	2022/7/11	
V	ML-552	Data Logger	313	15~35 °C; 30~80 %RH	CENTER	2021/7/28	2022/8/28	
	<b>T.4 Shock</b>							
V	ML-056	Shock	DP-1200-25	G:10~600G	King Design	2021/7/29	2022/7/29	
V	ML-257	Multimeter	34401A	note 1	Agilent	2021/2/4	2022/3/4	
V	ML-955	Electronic Balance	UX1020H	1-1220 gf	SHIMADZU	2021/1/4	2022/2/4	
	ML-1035	Electronic Balance	JWI-700W	30*0.005kg	JADEVER	2021/6/11	2022/7/11	
V	ML-551	Data Logger	313	15~35 °C; 30~80 %RH	CENTER	2021/7/28	2022/8/28	
	<b>T.5 External Short Circuit</b>							
V	ML-894	Battery Hister	BT3562	10mΩ ~ 30kΩ	HIOKI	2021/5/6	2022/6/6	
V	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200°C	Yokogawa	2021/7/23	2022/8/23	
V	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200°C	Yokogawa	2021/7/23	2022/8/23	
V	ML-521	Oven	9031	30~80 °C	YEOU LONG	2021/8/4	2022/9/4	
V	ML-1083	Data Logger	1161	15~35 °C; 30~80 %RH	TES	2021/9/13	2022/10/13	
	<b>T.6 Impact / Crush</b>							
V	ML-458	Data Acquisition	XL122-D	1-100 Vdc, -50 to 150°C	Yokogawa	2021/5/11	2022/6/11	
	ML-1016	Impact Tester			King Design	2021/3/29	2022/4/29	
	ML-553	Crush Tester	BCT-01		Simplo	2021/4/7	2022/5/7	
V	ML-866	Crush Tester	M0654		JYI SHENG	2021/4/7	2022/5/7	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200°C	Yokogawa	2021/7/23	2022/8/23	

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Revised Date: 2021-10-18

Test Instruments Reference List								
Used	Instrument ID	Instrument Name	Type	Range of use	Manufacturer	Calibration Date Last	Calibration Date Next	Remarks
<b>T.7 Overcharge</b>								
V	ML-482	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2021/5/5	2022/6/5	
V	ML-484	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2021/5/5	2022/6/5	
V	ML-486	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2021/5/5	2022/6/5	
V	ML-487	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2021/5/5	2022/6/5	
V	ML-1083	Data Logger	1161	15~35 ℃; 30~80 %RH	TES	2021/9/13	2022/10/13	
V	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200℃	Yokogawa	2021/7/23	2022/8/23	
V	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200℃	Yokogawa	2021/7/23	2022/8/23	
	ML-918	Overcharge & Forced discharge tester	T901	3~30 Vdc, Charge: 0.05~20A Discharge: 0.02~10A	SMP	2021/5/5	2022/6/5	
<b>T.8 Forced Discharge</b>								
V	ML-132	Electronic Load	3311C	60V,60A, 300W	Prodigit	2021/2/3	2022/3/3	
V	ML-133	Electronic Load	3311C	60V,60A, 300W	Prodigit	2021/2/3	2022/3/3	
V	ML-136	Electronic Load	3311C	60V,60A, 300W	Prodigit	2021/2/3	2022/3/3	
V	ML-192	Electronic Load	3311C	60V,60A, 300W	Prodigit	2021/2/3	2022/3/3	
V	ML-269	Electronic Load	3311C	60V,60A, 300W	Prodigit	2021/2/3	2022/3/3	
V	ML-532	DC Electronic Load	33511-01	120V, 240A, 3600W	Prodigit	2021/6/11	2022/7/11	
V	ML-482	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2021/5/5	2022/6/5	
V	ML-484	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2021/5/5	2022/6/5	
V	ML-486	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2021/5/5	2022/6/5	
V	ML-487	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2021/5/5	2022/6/5	
V	ML-1083	Data Logger	1161	15~35 ℃; 30~80 %RH	TES	2021/9/13	2022/10/13	
V	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200℃	Yokogawa	2021/7/23	2022/8/23	
V	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200℃	Yokogawa	2021/7/23	2022/8/23	
	ML-918	Overcharge & Forced discharge tester	T901	3~30 Vdc, Charge: 0.05~20A Discharge: 0.02~10A	SMP	2021/5/5	2022/6/5	
Note 1: DC Voltage: 0.1-1000V; AC Voltage: 0.5-700V at 60Hz, 1kHz; Resistance: 10Ω-10MΩ; DC Current: 0.1mA-3A; AC Current: 0.01-3A at 60Hz, 0.01-1A, at 1kHz.								

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Control Number: SACU-2110001

## 9. T.1~T.8 Detail Reports:

### UN 38.3 Test Datasheet

UN38.3/ST/SG/AC.10/11/Rev.7

Control Number: SACU-2110001	Customer: ACER	Model Name: AP21B7Q	SMP Project Name: AP21B7Q
Pack P/N: 934QA022H (B)	Configuration: 4S1P	Test Duration: 2021/09/28~2021/10/18	Reviewer: Esmond
Cell Vendor: HIGHPOWER	Cell Model: 3365C3AEB	Cell P/N: 110-2386H	N/A

Test Sample Identification: ☐ Large Battery ☒ Small Battery ☐ Single-cell Battery

Battery Pack						Component Cell		
Used	Sample No.	Sample State	Used	Sample No.	Sample State	Used	Sample No.	Sample State
V	01~04	1 Cycle, Fully charged	V	05~08	25 Cycles, Fully charged	V	01C~05C	1 Cycle, 50% SOC
V	09~12	1 Cycle, Fully charged	V	13~16	25 Cycles, Fully charged	V	06C~10C	25 Cycles, 50% SOC
						V	11C~20C	1 Cycle, Fully discharged (0% SOC)
						V	21C~30C	25 Cycles, Fully discharged (0% SOC)

#### T.1 Altitude Simulation

Start time: 2021/10/06 08:45		Ambient temp.: 23.5 °C						Operator: Martin	
Finish time: 2021/10/06 15:52		Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08
OCV (V)	Before	17.206	17.189	17.196	17.210	17.201	17.187	17.193	17.199
	After	17.193	17.175	17.181	17.198	17.186	17.176	17.180	17.189
	Residual OCV %	99.92%	99.92%	99.91%	99.93%	99.91%	99.94%	99.92%	99.94%
Mass (g)	Before	287.157	287.454	287.338	287.270	287.198	287.406	287.381	287.235
	After	287.150	287.445	287.328	287.259	287.190	287.394	287.374	287.225
	Mass loss %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Results		P	P	P	P	P	P	P	P

#### T.2 Thermal Test

Start time: 2021/10/06 16:15		Ambient temp.: 23.9 °C						Operator: Martin	
Finish time: 2021/10/13 08:49		Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08
OCV (V)	Before	17.193	17.175	17.181	17.198	17.186	17.176	17.180	17.189
	After	17.006	16.986	16.997	17.008	17.000	16.986	16.992	17.002
	Residual OCV %	98.91%	98.90%	98.93%	98.90%	98.92%	98.89%	98.91%	98.91%
Mass (g)	Before	287.150	287.445	287.328	287.259	287.190	287.394	287.374	287.225
	After	287.130	287.427	287.306	287.240	287.170	287.378	287.357	287.210
	Mass loss %	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%
Results		P	P	P	P	P	P	P	P

#### T.3 Vibration

Start time: 2021/10/13 09:10		Ambient temp.: 23.7 °C						Operator: Martin	
Finish time: 2021/10/14 09:00		Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08
OCV (V)	Before	17.006	16.986	16.997	17.008	17.000	16.986	16.992	17.002
	After	16.994	16.972	16.982	16.999	16.987	16.976	16.977	16.990
	Residual OCV %	99.93%	99.92%	99.91%	99.95%	99.92%	99.94%	99.91%	99.93%
Mass (g)	Before	287.130	287.427	287.306	287.240	287.170	287.378	287.357	287.210
	After	287.123	287.417	287.297	287.234	287.159	287.371	287.346	287.201
	Mass loss %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Results		P	P	P	P	P	P	P	P

#### T.4 Shock

Start time: 2021/10/14 09:20		Ambient temp.: 23.8 °C						Operator: Martin	
Finish time: 2021/10/14 14:03		Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08
OCV (V)	Before	16.994	16.972	16.982	16.999	16.987	16.976	16.977	16.990
	After	16.985	16.959	16.972	16.986	16.975	16.964	16.967	16.977
	Residual OCV %	99.95%	99.92%	99.94%	99.92%	99.93%	99.93%	99.94%	99.92%
Mass (g)	Before	287.123	287.417	287.297	287.234	287.159	287.371	287.346	287.201
	After	287.121	287.412	287.293	287.232	287.154	287.369	287.343	287.198
	Mass loss %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Results		P	P	P	P	P	P	P	P

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華普電子(常熟)有限公司

Control Number: SACU-2110001

#### T.5 External Short Circuit

Start time: 2021/10/15 09:20		Ambient temp.: 23.8 °C						Operator: Martin	
Finish time: 2021/10/15 18:18		Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08
OCV (V)	Before	16.979	16.952	16.967	16.981	16.968	16.958	16.961	16.970
	After	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Resistance (<100mΩ)		60.8	56.6	58.3	58.9	57.4	59.5	57.8	60.1
Max Temp. (< 170°C)		57.7	57.2	57.5	57.5	57.3	57.6	57.4	57.8
Results		P	P	P	P	P	P	P	P

#### T.6 Impact / Crush (Component Cell)

UN38.3/ST/SG/AC.10/11/Rev.7

□ Impact - Cylindrical cells not less than 18.0 mm in diameter

■ Crush - Prismatic, pouch, coin/button cells and cylindrical cells less than 18.0 mm in diameter

Start time: 2021/10/07 09:28		Ambient temp.: 23.7 °C				Operator: Martin	
Finish time: 2021/10/07 14:03		Sample 01C	Sample 02C	Sample 03C	Sample 04C	Sample 05C	
Initial OCV (V)		3.834	3.837	3.830	3.832	3.828	
Max Temp. (< 170°C)		24.1	24.0	24.1	23.8	23.7	
Results		P	P	P	P	P	
Sample No.		Sample 06C	Sample 07C	Sample 08C	Sample 09C	Sample 10C	
Initial OCV (V)		3.825	3.822	3.831	3.827	3.833	
Max Temp. (< 170°C)		23.7	23.6	23.9	24.1	23.8	
Results		P	P	P	P	P	

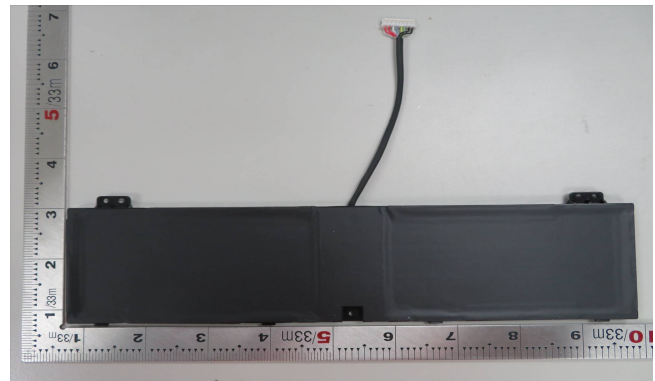
#### T.7 Overcharge

Start time: 2021/10/06 10:20		Ambient temp.: 23.7 °C						Operator: Martin	
Finish time: 2021/10/15 11:34		Sample 09	Sample 10	Sample 11	Sample 12	Sample 13	Sample 14	Sample 15	Sample 16
Initial OCV (V)		17.206	17.187	17.199	17.204	17.201	17.189	17.192	17.194
Results		P	P	P	P	P	P	P	P

#### T.8 Forced Discharge (Component Cell)

Start time: 2021/10/08 08:53		Ambient temp.: 23.5 °C						Operator: Martin	
Finish time: 2021/10/18 09:00		Sample 11C	Sample 12C	Sample 13C	Sample 14C	Sample 15C	Sample 16C	Sample 17C	Sample 18C
Initial OCV (V)		3.446	3.433	3.425	3.440	3.457	3.431	3.429	3.444
Results		P	P	P	P	P	P	P	P
Sample No.		Sample 19C	Sample 20C	Sample 21C	Sample 22C	Sample 23C	Sample 24C	Sample 25C	Sample 26C
Initial OCV (V)		3.424	3.451	3.459	3.430	3.428	3.442	3.454	3.439
Results		P	P	P	P	P	P	P	P
Sample No.		Sample 27C	Sample 28C	Sample 29C	Sample 30C				
Initial OCV (V)		3.421	3.442	3.434	3.450				
Results		P	P	P	P				

## 9. Test Sample:



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