



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: SLEU-2007009

Rechargeable Li-ion Battery UN38.3 Test Report

Recommendations on the TRANSPORT OF DANGEROUS GOODS

(Manual of Tests and Criteria, Sixth revised edition, Amend 1)

Customer: Lenovo

Model: L20M4P72

Rating/ Mass: 15.36V, Typical Capacity 3711mh/ 57Wh

Rated Capacity 3581mAh/ 55Wh /229 (g)

Issue date: 2020/07/22

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

●	SIMPLO TECHNOLOGY CO., LTD. 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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	SIMPLO TECHNOLOGY (CHONGQING) INC. ADD : No.2 Zongbao Avenue, Shapingba District, ChongQing, China TEL: +86-23-61718899 FAX: +86-23-61210488	
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Email : 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, Sixth revised edition, Amend 1, 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 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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4. Product manufacturer : Email : 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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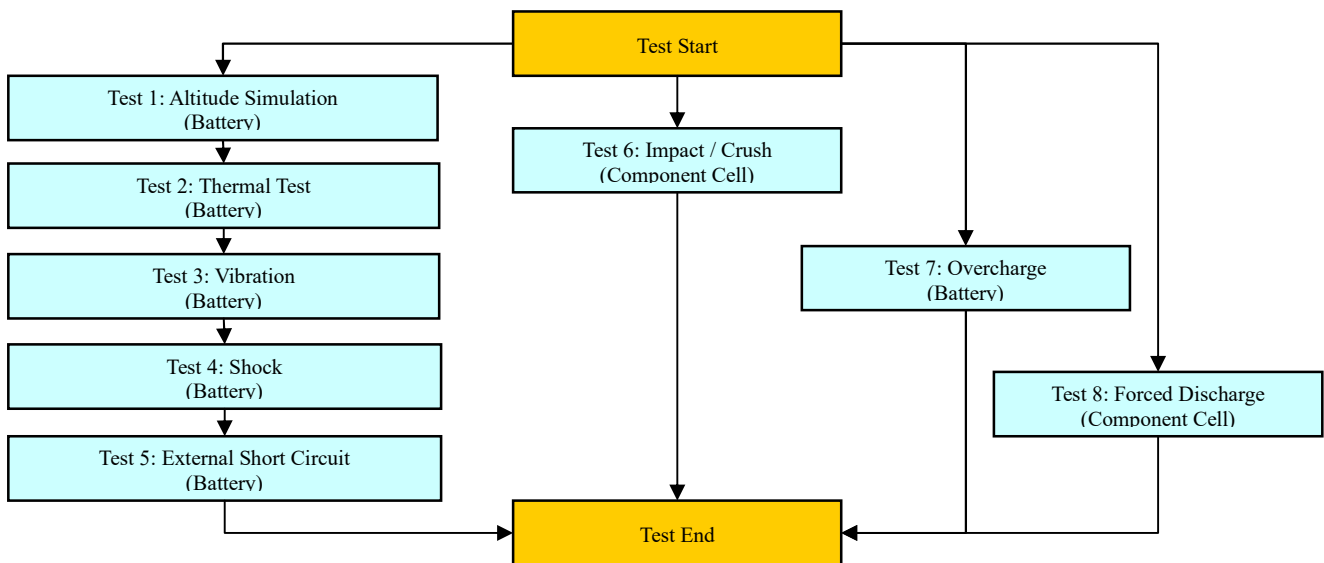
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6. Test Procedure :

6.1 All detailed test procedures must be based on United Nations Recommendations on the TRANSPORT OF DANGEROUS GOODS, Manual of Tests and Criteria, Sixth revised edition, Amend 1, 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 :

7.1 Due to the change of label, the sample picture need to modify, this report have been updated.
(The control number of old report: SLEU-2007002)



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8. Test Equipment :

SMP SIMPLO TECHNOLOGY CO., LTD.

Address : No.471, Sec.2, Pa Teh Rd., Hu Kou, Hsin Chu Hsien 303, Taiwan

TEL: +886-3-5695920; FAX: +886-3-5695931

Revised Date: 2020-07-22

Test Instruments Reference List								
Used	Instrument ID	Instrument Name	Type	Range of use	Manufacturer	Calibration Date_Last	Calibration Date_Next	Remarks
	Pretest							
V	ML-761	Learning	715C	0~18V 0~8A	SMP	2020/2/19	2021/3/19	
V	ML-762	Learning	715C	0~18V 0~8A	SMP	2020/1/2	2021/2/2	
V	ML-763	Learning	715C	0~18V 0~8A	SMP	2020/2/19	2021/3/19	
V	ML-764	Learning	715C	0~18V 0~8A	SMP	2020/1/2	2021/2/2	
	ML-925	Learning	750C8	0~60V 0~30A	SMP	2020/1/2	2021/2/2	
	T.1 Altitude Simulation							
V	ML-522	Altitude	SVT-120	kPa:30~90	HSIN JIANG	2019/7/17	2020/8/17	
V	ML-257	Multimeter	34401A	Note 1	Agilent	2019/9/2	2020/10/2	
V	ML-494	Electronic Balance	XS1220M-SCS	1-1220 gf	PRECISA	2019/7/17	2020/8/17	
	ML-523	Electronic Balance	MTW-30K	30*0.005kg		2019/8/16	2020/9/16	
V	ML-550	Data Logger	313	15~35 ℃; 30~80 %RH	CENTER	2019/8/15	2020/9/15	
V	ML-964	Barometric Air Pressure	MP55	750 to 1100 mbar	KIMO	2019/8/6	2020/9/6	
	T.2 Thermal Test							
V	ML-789	Thermal Shock	GTST-080-65-AW	T:-40 to 100℃	GF	2019/7/2	2020/8/2	
V	ML-257	Multimeter	34401A	note 1	Agilent	2019/9/2	2020/10/2	
V	ML-494	Electronic Balance	XS1220M-SCS	1-1220 gf	PRECISA	2019/7/17	2020/8/17	
	ML-523	Electronic Balance	MTW-30K	30*0.005kg		2019/8/16	2020/9/16	
V	ML-551	Data Logger	313	15~35 ℃; 30~80 %RH	CENTER	2019/8/15	2020/9/15	
	T.3 Vibration							
V	ML-233	Vibration	KD-9636-EM-300F2K-30N80	F:5~2000Hz G:0.2~20G	King Design	2019/8/7	2020/9/7	
V	ML-257	Multimeter	34401A	note 1	Agilent	2019/9/2	2020/10/2	
V	ML-494	Electronic Balance	XS1220M-SCS	1-1220 gf	PRECISA	2019/7/17	2020/8/17	
	ML-523	Electronic Balance	MTW-30K	30*0.005kg		2019/8/16	2020/9/16	
V	ML-552	Data Logger	313	15~35 ℃; 30~80 %RH	CENTER	2019/8/15	2020/9/15	
	T.4 Shock							
V	ML-056	Shock	DP-1200-25	G:10~600G	King Design	2019/8/7	2020/9/7	
V	ML-257	Multimeter	34401A	note 1	Agilent	2019/9/2	2020/10/2	
V	ML-494	Electronic Balance	XS1220M-SCS	1-1220 gf	PRECISA	2019/7/17	2020/8/17	
	ML-523	Electronic Balance	MTW-30K	30*0.005kg		2019/8/16	2020/9/16	
V	ML-551	Data Logger	313	15~35 ℃; 30~80 %RH	CENTER	2019/8/15	2020/9/15	
	T.5 External Short Circuit							
V	ML-894	Battery Hister	BT3562	1mΩ ~ 30kΩ	HIOKI	2020/6/9	2021/7/9	
V	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200℃	Yokogawa	2019/8/16	2020/9/16	
V	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200℃	Yokogawa	2019/8/16	2020/9/16	
V	ML-521	Oven	9031	30~80 ℃	YEOW LONG	2019/8/16	2020/9/16	
V	ML-952	Data Logger	313	15~35 ℃; 30~80 %RH	CENTER	2019/7/24	2020/8/24	
	T.6 Impact / Crush							
V	ML-458	Data Acquisition	XL122-D	1-100 Vdc, -50 to 150℃	Yokogawa	2020/6/3	2021/7/3	
	ML-076	Impact Tester			JYI SHENG	2020/1/6	2021/2/6	
	ML-553	Crush Tester	BCT-01		Simplo	2020/4/8	2021/5/8	
V	ML-866	Crush Tester	M0654		JYI SHENG	2020/4/8	2021/5/8	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200℃	Yokogawa	2019/8/16	2020/9/16	

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Revised Date: 2020-07-22

Test Instruments Reference List								
Used	Instrument ID	Instrument Name	Type	Range of use	Manufacturer	Calibration Date_Last	Calibration Date_Next	Remarks
	T.7 Overcharge							
	ML-482	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2020/5/7	2021/6/7	
	ML-483	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2020/5/7	2021/6/7	
	ML-484	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2020/5/7	2021/6/7	
	ML-486	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2020/5/7	2021/6/7	
	ML-487	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2020/5/7	2021/6/7	
V	ML-952	Data Logger	313	15~35 °C; 30~80 %RH	CENTER	2019/7/24	2020/8/24	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200°C	Yokogawa	2019/8/16	2020/9/16	
	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200°C	Yokogawa	2019/8/16	2020/9/16	
V	ML-918	Overcharge & Forced discharge tester	T901	3~30 Vdc, Charge: 0.05~20A Discharge: 0.02~10A	SMP	2020/5/7	2021/6/7	
	T.8 Forced Discharge							
	ML-132	Electronic Load	3311C	60V,60A, 300W	Prodigit	2020/2/20	2021/3/20	
	ML-133	Electronic Load	3311C	60V,60A, 300W	Prodigit	2020/2/20	2021/3/20	
	ML-136	Electronic Load	3311C	60V,60A, 300W	Prodigit	2020/2/20	2021/3/20	
	ML-192	Electronic Load	3311C	60V,60A, 300W	Prodigit	2020/2/20	2021/3/20	
	ML-269	Electronic Load	3311C	60V,60A, 300W	Prodigit	2020/2/20	2021/3/20	
	ML-532	DC Electronic Load	33511-01	120V, 240A, 3600W	Prodigit	2019/7/17	2020/8/17	
	ML-482	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2020/5/7	2021/6/7	
	ML-483	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2020/5/7	2021/6/7	
	ML-484	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2020/5/7	2021/6/7	
	ML-486	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2020/5/7	2021/6/7	
	ML-487	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2020/5/7	2021/6/7	
V	ML-952	Data Logger	313	15~35 °C; 30~80 %RH	CENTER	2019/7/24	2020/8/24	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200°C	Yokogawa	2019/8/16	2020/9/16	
	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200°C	Yokogawa	2019/8/16	2020/9/16	
V	ML-918	Overcharge & Forced discharge tester	T901	3~30 Vdc, Charge: 0.05~20A Discharge: 0.02~10A	SMP	2020/5/7	2021/6/7	
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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9. T.1~T.8 Detail Reports:

UN 38.3 Test Datasheet UN38.3/ST/SG/AC.10/11/Rev.6/Amend.1

Control Number: SLEU-2007009	Customer: Lenovo	Model Name: L20M4P72	SMP Project Name: Tiger
Pack P/N: 931QA192H (A)(B) 931QA193H (A)(B)	Configuration: 4S1P	Test Duration: 2020/07/06~2020/07/22	Reviewer: Esmond
Cell Vendor: BYD	Cell Model: CSL496767	N/A	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: 2020/07/13 09:00		Ambient temp.: 24.9 °C						Operator: Rasner	
Finish time: 2020/07/13 16:03		Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08
OCV (V)	Before	16.986	16.980	16.967	16.975	16.983	16.971	16.974	16.969
	After	16.971	16.970	16.958	16.961	16.971	16.963	16.961	16.959
	Residual OCV %	99.91%	99.94%	99.95%	99.92%	99.93%	99.95%	99.92%	99.94%
Mass (g)	Before	229.008	228.996	228.983	229.010	228.988	228.991	229.005	228.976
	After	229.002	228.989	228.977	229.002	228.981	228.983	228.999	228.969
	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: 2020/07/13 16:20		Ambient temp.: 25.1 °C						Operator: Rasner	
Finish time: 2020/07/20 08:46		Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08
OCV (V)	Before	16.971	16.970	16.958	16.961	16.971	16.963	16.961	16.959
	After	16.779	16.784	16.768	16.775	16.787	16.778	16.773	16.768
	Residual OCV %	98.87%	98.90%	98.88%	98.90%	98.92%	98.91%	98.89%	98.87%
Mass (g)	Before	229.002	228.989	228.977	229.002	228.981	228.983	228.999	228.969
	After	228.989	228.972	228.959	228.982	228.962	228.966	228.979	228.951
	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: 2020/07/20 09:10		Ambient temp.: 24.7 °C						Operator: Rasner	
Finish time: 2020/07/21 09:08		Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08
OCV (V)	Before	16.779	16.784	16.768	16.775	16.787	16.778	16.773	16.768
	After	16.766	16.769	16.758	16.759	16.776	16.763	16.760	16.758
	Residual OCV %	99.92%	99.91%	99.94%	99.90%	99.93%	99.91%	99.92%	99.94%
Mass (g)	Before	228.989	228.972	228.959	228.982	228.962	228.966	228.979	228.951
	After	228.981	228.967	228.953	228.975	228.957	228.959	228.974	228.943
	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: 2020/07/21 09:30		Ambient temp.: 24.9 °C						Operator: Rasner	
Finish time: 2020/07/21 14:55		Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08
OCV (V)	Before	16.766	16.769	16.758	16.759	16.776	16.763	16.760	16.758
	After	16.756	16.765	16.750	16.748	16.770	16.758	16.754	16.748
	Residual OCV %	99.94%	99.98%	99.95%	99.93%	99.96%	99.97%	99.96%	99.94%
Mass (g)	Before	228.981	228.967	228.953	228.975	228.957	228.959	228.974	228.943
	After	228.981	228.965	228.949	228.972	228.957	228.958	228.972	228.939
	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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Control Number: SLEU-2007009

T.5 External Short Circuit

Start time: 2020/07/21 15:20		Ambient temp.: 25.0 °C						Operator: Rasner	
Finish time: 2020/07/22 08:40		Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08
OCV (V)	Before	16.756	16.765	16.750	16.748	16.770	16.758	16.754	16.748
	After	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Resistance (<100mΩ)		57.3	59.5	60.1	58.3	59.0	56.6	59.2	57.9
Max Temp. (< 170°C)		57.7	57.2	57.4	57.5	57.9	57.6	57.3	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.6/Amend.1

☐ 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: 2020/07/14 13:20		Ambient temp.: 25.3 °C				Operator: Rasner	
Finish time: 2020/07/14 17:30		Sample 01C	Sample 02C	Sample 03C	Sample 04C	Sample 05C	
Initial OCV (V)		3.805	3.803	3.808	3.796	3.796	
Max Temp. (< 170°C)		23.5	23.2	23.9	24.2	24.0	
Results		P	P	P	P	P	
Sample No.		Sample 06C	Sample 07C	Sample 08C	Sample 09C	Sample 10C	
Initial OCV (V)		3.806	3.799	3.793	3.800	3.802	
Max Temp. (< 170°C)		24.6	23.8	24.1	24.5	23.6	
Results		P	P	P	P	P	

T.7 Overcharge

Start time: 2020/07/13 10:50		Ambient temp.: 25.1 °C						Operator: Rasner	
Finish time: 2020/07/21 13:00		Sample 09	Sample 10	Sample 11	Sample 12	Sample 13	Sample 14	Sample 15	Sample 16
Initial OCV (V)		16.983	16.978	16.972	16.982	16.975	16.977	16.981	16.972
Results		P	P	P	P	P	P	P	P

T.8 Forced Discharge (Component Cell)

Start time: 2020/07/14 08:40		Ambient temp.: 24.8 °C						Operator: Rasner	
Finish time: 2020/07/22 11:00		Sample 11C	Sample 12C	Sample 13C	Sample 14C	Sample 15C	Sample 16C	Sample 17C	Sample 18C
Initial OCV (V)		3.446	3.460	3.432	3.457	3.439	3.451	3.440	3.434
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)		3.468	3.437	3.450	3.441	3.463	3.470	3.455	3.442
Results		P	P	P	P	P	P	P	P
Sample No.		Sample 27C	Sample 28C	Sample 29C	Sample 30C				
Initial OCV (V)		3.459	3.447	3.433	3.462				
Results		P	P	P	P				

9. Test Sample:



Form No. : W11-002-B05

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