



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-2010001

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)

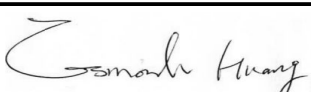
Customer: Lenovo

Model: L18M3PD1

Rating/ Mass: 11.52V, Typical Capacity 4950mAh/ 57Wh

Rated Capacity 4830mAh/ 55Wh /222 (g)

Issue date: 2020/10/08

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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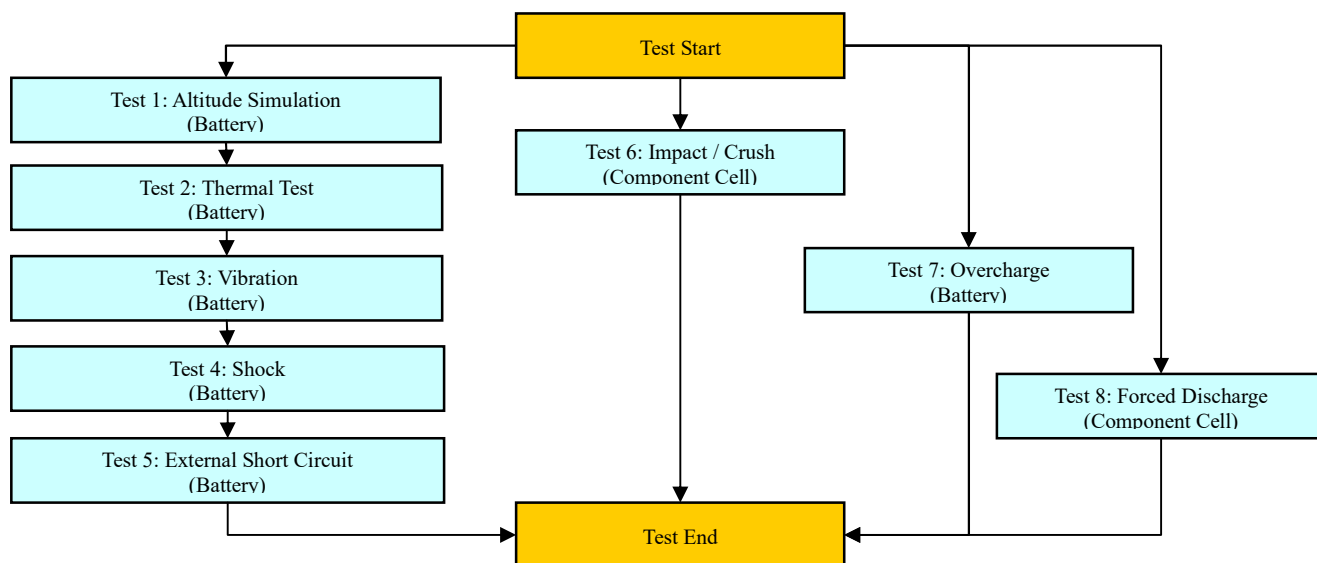
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6. Test Procedure :

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 : NA



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8. Test Equipment :

SMP SIMPLO TECHNOLOGY CO., LTD.

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

Revised Date: 2020-10-08

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	2020/7/1	2021/8/1	
V	ML-257	Multimeter	34401A	Note 1	Agilent	2020/7/23	2021/8/23	
V	ML-494	Electronic Balance	XS1220M-SCS	1-1220 gf	PRECISA	2020/7/1	2021/8/1	
	ML-523	Electronic Balance	MTW-30K	30*0.005kg		2020/8/11	2021/9/11	
V	ML-550	Data Logger	313	15~35 °C; 30~80 %RH	CENTER	2020/8/6	2021/9/6	
V	ML-964	Barometric Air Pressure	MP55	750 to 1100 mbar	KIMO	2020/7/3	2021/8/3	
	T.2 Thermal Test							
V	ML-789	Thermal Shock	GTST-080-65-AW	T:-40 to 100°C	GF	2020/7/2	2021/8/2	
V	ML-257	Multimeter	34401A	note 1	Agilent	2020/7/23	2021/8/23	
V	ML-494	Electronic Balance	XS1220M-SCS	1-1220 gf	PRECISA	2020/7/1	2021/8/1	
	ML-523	Electronic Balance	MTW-30K	30*0.005kg		2020/8/11	2021/9/11	
V	ML-551	Data Logger	313	15~35 °C; 30~80 %RH	CENTER	2020/8/6	2021/9/6	
	T.3 Vibration							
V	ML-233	Vibration	KD-9636-EM-300F2K-30N80	F:5~2000Hz G:0.2~20G	King Design	2020/8/3	2021/9/3	
V	ML-257	Multimeter	34401A	note 1	Agilent	2020/7/23	2021/8/23	
V	ML-494	Electronic Balance	XS1220M-SCS	1-1220 gf	PRECISA	2020/7/1	2021/8/1	
	ML-523	Electronic Balance	MTW-30K	30*0.005kg		2020/8/11	2021/9/11	
V	ML-552	Data Logger	313	15~35 °C; 30~80 %RH	CENTER	2020/8/6	2021/9/6	
	T.4 Shock							
V	ML-056	Shock	DP-1200-25	G:10~600G	King Design	2020/8/3	2021/9/3	
V	ML-257	Multimeter	34401A	note 1	Agilent	2020/7/23	2021/8/23	
V	ML-494	Electronic Balance	XS1220M-SCS	1-1220 gf	PRECISA	2020/7/1	2021/8/1	
	ML-523	Electronic Balance	MTW-30K	30*0.005kg		2020/8/11	2021/9/11	
V	ML-551	Data Logger	313	15~35 °C; 30~80 %RH	CENTER	2020/8/6	2021/9/6	
	T.5 External Short Circuit							
V	ML-894	Battery Hitester	BT3562	1mΩ ~ 30kΩ	HIOKI	2020/6/9	2021/7/9	
V	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200 °C	Yokogawa	2020/8/11	2021/9/11	
V	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200 °C	Yokogawa	2020/8/11	2021/9/11	
V	ML-521	Oven	9031	30~80 °C	YEOW LONG	2020/8/11	2021/9/11	
V	ML-952	Data Logger	313	15~35 °C; 30~80 %RH	CENTER	2020/7/2	2021/8/2	
	T.6 Impact / Crush							
V	ML-458	Data Acquisition	XL122-D	1-100 Vdc, -50 to 150 °C	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 °C	Yokogawa	2020/8/11	2021/9/11	

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Revised Date: 2020-10-08

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	2020/7/2	2021/8/2	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200 °C	Yokogawa	2020/8/11	2021/9/11	
	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200 °C	Yokogawa	2020/8/11	2021/9/11	
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	2020/7/1	2021/8/1	
	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	2020/7/2	2021/8/2	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200 °C	Yokogawa	2020/8/11	2021/9/11	
	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200 °C	Yokogawa	2020/8/11	2021/9/11	
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-2010001	Customer: Lenovo	Model Name: L18M3PD1	SMP Project Name: Jazz
Pack P/N: 931QA208H (B)	Configuration: 3S1P	Test Duration: 2020/09/21~2020/10/08	Reviewer: Esmond
Cell Vendor: ATL	Cell Model: 478769 R5A-1	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: 2020/09/28 08:40		Ambient temp.: 23.8 °C					Operator: John		
Finish time: 2020/09/28 15:48		Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08
OCV (V)	Before	12.693	12.688	12.705	12.710	12.697	12.709	12.689	12.691
	After	12.687	12.678	12.697	12.698	12.688	12.701	12.677	12.681
	Residual OCV %	99.95%	99.92%	99.94%	99.91%	99.93%	99.94%	99.91%	99.92%
Mass (g)	Before	222.159	222.640	222.583	222.327	222.445	222.616	222.271	222.514
	After	222.153	222.635	222.579	222.321	222.442	222.614	222.267	222.509
	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: 2020/09/28 16:10		Ambient temp.: 24.2 °C					Operator: John		
Finish time: 2020/10/05 09:00		Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08
OCV (V)	Before	12.687	12.678	12.697	12.698	12.688	12.701	12.677	12.681
	After	12.542	12.535	12.555	12.551	12.543	12.555	12.530	12.536
	Residual OCV %	98.86%	98.87%	98.88%	98.84%	98.86%	98.85%	98.84%	98.86%
Mass (g)	Before	222.153	222.635	222.579	222.321	222.442	222.614	222.267	222.509
	After	222.130	222.613	222.559	222.300	222.424	222.597	222.251	222.489
	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: 2020/10/05 09:20		Ambient temp.: 24.0 °C					Operator: John		
Finish time: 2020/10/06 08:55		Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08
OCV (V)	Before	12.542	12.535	12.555	12.551	12.543	12.555	12.530	12.536
	After	12.532	12.518	12.542	12.537	12.531	12.538	12.517	12.521
	Residual OCV %	99.92%	99.86%	99.90%	99.89%	99.90%	99.86%	99.90%	99.88%
Mass (g)	Before	222.130	222.613	222.559	222.300	222.424	222.597	222.251	222.489
	After	222.124	222.608	222.552	222.294	222.419	222.594	222.247	222.486
	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: 2020/10/06 09:20		Ambient temp.: 24.4 °C					Operator: John		
Finish time: 2020/10/06 13:31		Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08
OCV (V)	Before	12.532	12.518	12.542	12.537	12.531	12.538	12.517	12.521
	After	12.524	12.512	12.532	12.532	12.522	12.531	12.506	12.512
	Residual OCV %	99.94%	99.95%	99.92%	99.96%	99.93%	99.94%	99.91%	99.93%
Mass (g)	Before	222.124	222.608	222.552	222.294	222.419	222.594	222.247	222.486
	After	222.120	222.605	222.548	222.289	222.416	222.591	222.243	222.482
	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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新普科技股份有限公司
新世電子(常熟)有限公司
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華普電子(常熟)有限公司

Control Number: SLEU-2010001

T.5 External Short Circuit

Start time: 2020/10/07 08:50	Ambient temp.: 24.4 °C				Operator: John			
Finish time: 2020/10/07 17:30	Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08
OCV (V)	Before	12.509	12.501	12.518	12.521	12.509	12.519	12.492
	After	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Resistance (<100mΩ)		57.8	60.3	59.5	58.2	57.4	56.6	58.8
Max Temp. (< 170°C)		57.3	57.5	57.1	57.7	57.6	57.2	57.8
Results		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: 2020/09/29 10:40	Ambient temp.: 24.5 °C				Operator: John	
Finish time: 2020/09/29 15:00	Sample 01C	Sample 02C	Sample 03C	Sample 04C	Sample 05C	
Initial OCV (V)	3.805	3.808	3.794	3.793	3.797	
Max Temp. (< 170°C)	23.9	23.5	24.2	24.6	24.0	
Results	P	P	P	P	P	
Sample No.	Sample 06C	Sample 07C	Sample 08C	Sample 09C	Sample 10C	
Initial OCV (V)	3.801	3.799	3.806	3.804	3.794	
Max Temp. (< 170°C)	23.5	23.3	23.7	24.2	23.8	
Results	P	P	P	P	P	

T.7 Overcharge

Start time: 2020/09/28 10:00	Ambient temp.: 24.3 °C				Operator: John			
Finish time: 2020/10/07 12:40	Sample 09	Sample 10	Sample 11	Sample 12	Sample 13	Sample 14	Sample 15	Sample 16
Initial OCV (V)	12.690	12.686	12.708	12.708	12.695	12.710	12.691	12.689
Results	P	P	P	P	P	P	P	P

T.8 Forced Discharge (Component Cell)

Start time: 2020/09/30 08:58	Ambient temp.: 24.4 °C				Operator: John			
Finish time: 2020/10/08 10:40	Sample 11C	Sample 12C	Sample 13C	Sample 14C	Sample 15C	Sample 16C	Sample 17C	Sample 18C
Initial OCV (V)	3.483	3.460	3.455	3.468	3.471	3.488	3.459	3.474
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)	3.449	3.482	3.472	3.457	3.464	3.469	3.462	3.450
Results	P	P	P	P	P	P	P	P
Sample No.	Sample 27C	Sample 28C	Sample 29C	Sample 30C				
Initial OCV (V)	3.477	3.456	3.480	3.461				
Results	P	P	P	P				

9. Test Sample:



Form No. : W11-002-B05

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