



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:LE-CU-15-11-012

Lithium-ion Battery UN38.3 Test Report

Recommendations on the TRANSPORT OF DANGEROUS GOODS

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

Customer: Lenovo

Model: L15M2PB5

Rating: 7.68V, TYP 5080mAh / 39Wh

MIN 4950mAh / 38Wh

Approved By	Checked By	Prepared By
Winel Zhao	Winel Zhao	Happy-Gu.

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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, Fifth revised edition, Amend.1, Section 38.3.

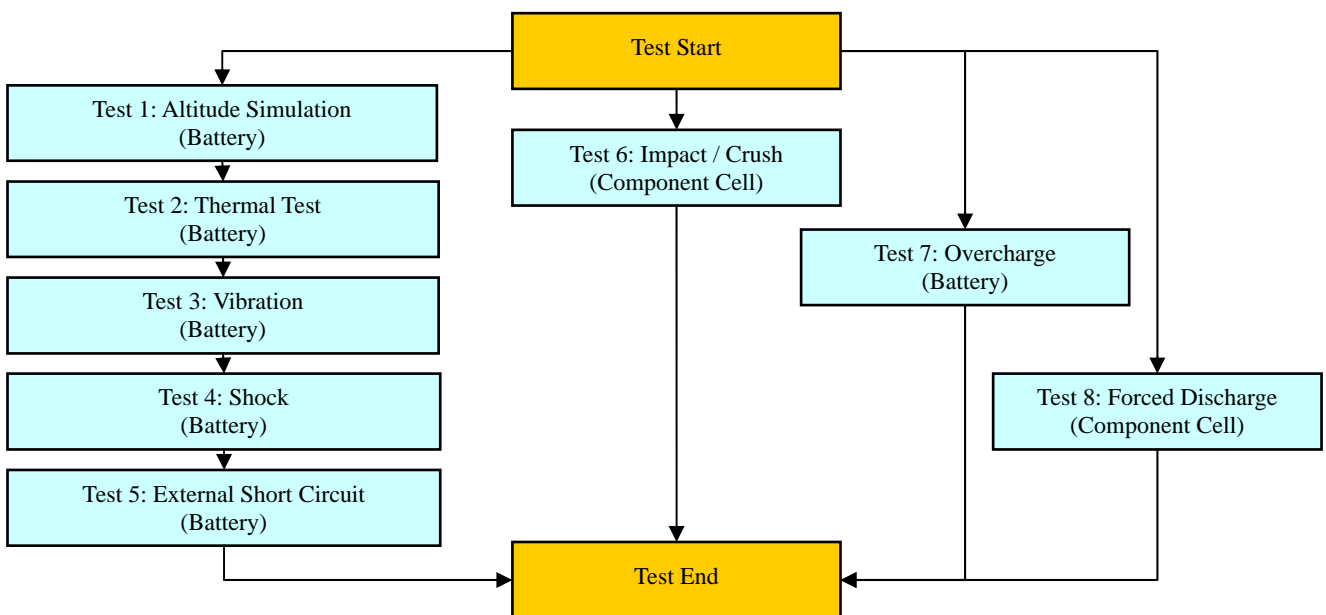
2. Test Quantity :

- 2.1 Four batteries, at first cycle, in fully charged states. (For T.1~T.5)
- 2.2 Four batteries, after 50 cycles ending in fully charged states. (For T.1~T.5)
- 2.3 Five component cells, at first cycle at 50% of the design rated capacity. (For T.6)
- 2.4 Four batteries, at first cycle, in fully charged states. (For T.7)
- 2.5 Four batteries, after 50 cycles ending in fully charged states. (For T.7)
- 2.6 Ten component cells, at first cycle in fully discharge states. (For T.8)
- 2.7 Ten component cells, after 50 cycles ending in fully discharged states. (For T.8)

3. Test Procedure :

3.1 All detailed test procedures must be based on United Nations Recommendations on the TRANSPORT OF DANGEROUS GOODS, Manual of Tests and Criteria, Fifth revised edition, Amend.1, Section 38.3.

3.2 Test flow shall be followed as below.





4. Test Result :

4.1 T.1 ~T.4 Test result: **Passed**

4.1.1 All batteries could meet the requirement of Table 38.3.1 Mass loss limit (M<1g: 0.5% ; 1g M 75g: 0.2% ; M>75g: 0.1%) and residual OCV not less than 90% after the test.

4.1.2 No leakage, no venting, no disassembly, no rupture and no fire.

4.2 T.5 Test result: **Passed**

4.2.1 All batteries could meet the requirement, external temperature did not exceed 170 .

4.2.2 All batteries were no disassembly, no rupture and no fire during the test and within six hours after the test.

4.3 T.6 Test result: **Passed**

4.3.1 All component cells could meet the requirement, external temperature did not exceed 170 .

4.3.2 All component cells were no disassembly and no fire during the test and within six hours after the test.

4.4 T.7 Test result: **Passed**

4.4.1 All batteries could meet no disassembly and no fire during the test and within seven days after the test.

4.5 T.8 Test result: **Passed**

4.5.1 All component cells could meet the requirement, no disassembly and no fire during the test and within seven days after the test.

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



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Control Number:LE-CU-15-11-012

5. Test Equipment :

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Revised date: 2015/10/20 Page:1
 Date:2015/10/12~2015/11/07
 Model name: L15M2PB5

Test Instruments Reference List									
Used	Instrument ID(New)	Instrument ID(Old)	Instrument Name	Type	Range of Use	Manufacturer	Calibration Date_Last	Calibration Date_Next	Remarks
Pretest									
√	EE01-CA-I00002	C602M00/S0 096	715 learning機	新普科技	18V/8A	新普科技	2014/12/30	2015/12/29	
√	EE03-CA-I00018	C602M00/S0 107	720 learning機	新普科技	Chang:18V/17A Discharge:1.6V/18A	新普科技	2015/03/09	2016.03/08	
	EE01-CA-I00003	C602M00/S0 099	715 learning機	新普科技	18V/8A	新普科技	2015/03/09	2016.03/08	
	EE01-CA-I00005	C602M00/S0 098	715 learning機	新普科技	18V/8A	新普科技	2015/04/09	2016.04/08	
	EE03-CA-I00020	C602M00/S0 163	720 learning機	新普科技	Chang:18V/17A Discharge:1.6V/18A	新普科技	2015/10/20	2016/10/19	
Altitude Simulation									
√	EC15-CA-E 00003	C602M00/0462	Altitude	SV T-110	Kpa: 0~99Kpa	HSIN JIANG	2015/09/08	2016.09/07	
√	EA02-CA-I00002	C602M00/0293	mΩ Hitester	3561	R:-10~310mΩ V:-20~20V	HIOKI	2015/9/16	2016.9/15	
√	EF03-CA-I00001	C602M00/C0604	Electronic Balance	XS1220M-SCS	1220g±0.001g	CHENGZHUN	2015/10/20	2016/10/19	
√	ED01-CA-I00007	C602M00/T0412	Thermo Meter	TA218	T: -10℃~70℃ RH: 25%~98%	KTJ	2015/8/27	2016.8/26	
Thermal Test									
√	EC29-CA-E 00002	C602M00/0671	Thermal Shock	TSK-A4C-150	T:-65℃ to 150℃	KSON	2015/06/09	2016.06/08	
√	EA02-CA-I00002	C602M00/0293	mΩ Hitester	3561	R:-10~310mΩ V:-20~20V	HIOKI	2015/9/16	2016.9/15	
√	EF03-CA-I00001	C602M00/C0604	Electronic Balance	XS1220M-SCS	1220g±0.001g	CHENGZHUN	2015/10/20	2016/10/19	
√	ED01-CA-I00007	C602M00/T0412	Thermo Meter	TA218	T: -10℃~70℃ RH: 25%~98%	KTJ	2015/8/27	2016.8/26	
Vibration Test									
√	EC08-CA-E 00001	C602M00/0197	Vibration	EM-200F2K-25N50	F:3~2000Hz G:0.2~55G	King Design	2015/3/11	2016.3/10	
	EC08-CA-E 00002	C602M00/0052	Vibration	EM-200F2K-25N50	F:3~2000Hz G:0.2~55G	King Design	2015/9/23	2016.9/22	
√	EA02-CA-I00002	C602M00/0293	mΩ Hitester	3561	R:-10~310mΩ V:-20~20V	HIOKI	2015/9/16	2016.9/15	
√	EF03-CA-I00001	C602M00/C0604	Electronic Balance	XS1220M-SCS	1220g±0.001g	CHENGZHUN	2015/10/20	2016/10/19	
Shock Test									
√	EC17-CA-E 00001	C602M00/0570	Shock	HS 15/45	G:10~2000G	Lansmont	2015/09/08	2016.09/07	
√	EA02-CA-I00002	C602M00/0293	mΩ Hitester	3561	R:-10~310mΩ V:-20~20V	HIOKI	2015/9/16	2016.9/15	
√	EF03-CA-I00001	C602M00/C0604	Electronic Balance	XS1220M-SCS	1220g±0.001g	CHENGZHUN	2015/10/20	2016/10/19	
External Short Circuit									
√	EA02-CA-I00002	C602M00/0293	mΩ Hitester	3561	R:-10~310mΩ V:-20~20V	HIOKI	2015/9/16	2016.9/15	
√	EA09-CA-I00004	C602M00/0207	Data logger	34970A	V: 0~300V, T: -150℃~1200℃	Agilent	2015/9/16	2016.9/15	
√	EC26-CA-I00023	C602M00/0518	chamber	WIT TH-2P-E	-40℃ to 150℃	WIT	2015/08/11	2016.08/10	
√	ED01-CA-I00007	C602M00/T0412	Thermo Meter	TA218	T: -10℃~70℃ RH: 25%~98%	KTJ	2015/8/27	2016.8/26	
Impact /Crush									
	EC17-CA-I00001	C602M00/1204	Impact test	100-372	H:60~80cm	JYI SHENG	2015/9/16	2016.9/15	
√	EC23-CA-E 00001	C602M00/0743	Crush Test	BE-6047	1.0KN~15.0KN	BELL	2015/09/08	2016.09/07	
√	EA09-CA-I00005	C602M00/0588	Data logger	34970A	V: 0~300V, T: -150℃~1200℃	Agilent	2015/9/16	2016.9/15	
√	ED01-CA-I00010	C602M00/T0581	Thermo Meter	TA218	T: -10℃~70℃ RH: 25%~98%	KTJ	2015/6/22	2016.6/21	
Overcharge									
√	EA06-CA-E00003	C602M00/P0 779	Power Supply	D56024	0~60V 0~24A	MOTECH	2015/03/11	2016.03/10	
√	EA06-CA-E00002	C602M00/P0 777	Power Supply	D56024	0~60V 0~24A	MOTECH	2015/03/11	2016.03/10	
√	EA06-CA-E00001	C602M00/P0 775	Power Supply	D56024	0~60V 0~24A	MOTECH	2015/03/11	2016.03/10	
√	EA06-CA-E00004	C602M00/P0 781	Power Supply	D56024	0~60V 0~24A	MOTECH	2015/03/11	2016.03/10	
√	ED01-CA-I00007	C602M00/T0412	Thermo Meter	TA218	T: -10℃~70℃ RH: 25%~98%	KTJ	2015/8/27	2016.8/26	
Froced Discharge									
√	EA06-CA-I00004		Power Supply	E3633A	0~8V,20A/0~20V,10A	AGILENT	2015/9/16	2016.9/15	
√	EA06-CA-I00016		Power Supply	E3633A	0~8V,20A/0~20V,10A	AGILENT	2015/5/10	2016.5/9	
√	EA06-CA-I00015	C602M00/P0 481	Power Supply	E3633A	0~8V,20A/0~20V,10A	AGILENT	2015/5/10	2016.5/9	
√	EA05-CA-I00006		Electronic LOAD	3311D	60V/60A, 3000W	PRODIGIT	2015/05/12	2016.05/11	
√	EA05-CA-I00009		Electronic LOAD	3311F	60V/60A, 3000W	PRODIGIT	2015/05/12	2016.05/11	
√	EA05-CA-I00008	C602M00/L0 402	Electronic LOAD	3311F	60V/60A, 3000W	PRODIGIT	2015/08/13	2016.08/12	

Note 1: DC Voltage: 0.1-1000V, AC Voltage: 0.5-700V at 60Hz, 1kHz; Resistance: 10Ω-10MΩ; DC current:0.1m A-3A; AC current: 0.0 1m A-3A at 60Hz, 0.0 1m A-1A, at 1kHz

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Control Number:LE-CU-15-11-012

6. T.1~T.8 Detail Reports:

Control No.:LE-CU-15-11-012

UN 38.3 Test Datasheet

Customer: Lenovo

Model Name:L15M2PB5

Test Duration: 2015/10/12~2015/11/07

Reviewer: Wind_Zhao

Test Sample Identification:

Battery Pack						Component Cell		
Used	Sample No.	Sample State	Used	Sample No.	Sample State	Used	Sample No.	Sample State
√	01~04	1 Cycle, Fully charged	√	05~08	50 Cycles, Fully charged	√	01C~05C	1 Cycle, 50% charged
√	09~12	1 Cycle, Fully charged	√	13~16	50 Cycles, Fully charged	√	06C~15C	1 Cycle, 0% discharged
		25Cycles, Fully charged			25Cycles, Fully charged	√	16C~25C	50 Cycles, 0% discharged

T.1 Altitude Simulation											
Start time:2015/10/26 08:20					Ambient temp.: 20.0 °C		Operator: Happy_Gu				
Finish time:2015/10/26 17:30											
Sample No.: 01					Sample No.: 02						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	150.123	150.121	Mass loss %	0.00%	P	Mass (g)	147.357	147.354	Mass loss %	0.00%	P
OCV (V)	8.749	8.744	Residual OCV %	99.94%		OCV (V)	8.759	8.753	Residual OCV %	99.93%	
Sample No.: 03					Sample No.: 04						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	145.857	145.854	Mass loss %	0.00%	P	Mass (g)	145.346	145.344	Mass loss %	0.00%	P
OCV (V)	8.750	8.743	Residual OCV %	99.92%		OCV (V)	8.766	8.759	Residual OCV %	99.92%	
Sample No.: 05					Sample No.: 06						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	145.898	145.896	Mass loss %	0.00%	P	Mass (g)	146.981	146.979	Mass loss %	0.00%	P
OCV (V)	8.773	8.766	Residual OCV %	99.92%		OCV (V)	8.762	8.757	Residual OCV %	99.94%	
Sample No.: 07					Sample No.: 08						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	146.882	146.880	Mass loss %	0.00%	P	Mass (g)	148.056	148.054	Mass loss %	0.00%	P
OCV (V)	8.762	8.756	Residual OCV %	99.93%		OCV (V)	8.756	8.751	Residual OCV %	99.94%	

T.2 Thermal Test											
Start time:2015/10/26 17:40					Ambient temp.: 19.5 °C		Operator: Happy_Gu				
Finish time:2015/11/02 08:20											
Sample No.: 01					Sample No.: 02						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	150.121	150.119	Mass loss %	0.00%	P	Mass (g)	147.354	147.351	Mass loss %	0.00%	P
OCV (V)	8.744	8.622	Residual OCV %	98.60%		OCV (V)	8.753	8.634	Residual OCV %	98.64%	
Sample No.: 03					Sample No.: 04						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	145.854	145.852	Mass loss %	0.00%	P	Mass (g)	145.344	145.340	Mass loss %	0.00%	P
OCV (V)	8.743	8.626	Residual OCV %	98.66%		OCV (V)	8.759	8.635	Residual OCV %	98.58%	
Sample No.: 05					Sample No.: 06						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	145.896	145.894	Mass loss %	0.00%	P	Mass (g)	146.979	146.975	Mass loss %	0.00%	P
OCV (V)	8.766	8.645	Residual OCV %	98.62%		OCV (V)	8.757	8.639	Residual OCV %	98.65%	
Sample No.: 07					Sample No.: 08						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	146.880	146.876	Mass loss %	0.00%	P	Mass (g)	148.054	148.052	Mass loss %	0.00%	P
OCV (V)	8.756	8.633	Residual OCV %	98.60%		OCV (V)	8.751	8.627	Residual OCV %	98.58%	

T.3 Vibration											
Start time:2015/11/02 08:40					Ambient temp.: 20.7 °C		Operator: Happy_Gu				
Finish time:2015/11/03 08:20											
Sample No.: 01					Sample No.: 02						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	150.119	150.116	Mass loss %	0.00%	P	Mass (g)	147.351	147.348	Mass loss %	0.00%	P
OCV (V)	8.622	8.613	Residual OCV %	99.90%		OCV (V)	8.634	8.623	Residual OCV %	99.87%	
Sample No.: 03					Sample No.: 04						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	145.852	145.850	Mass loss %	0.00%	P	Mass (g)	145.340	145.338	Mass loss %	0.00%	P
OCV (V)	8.626	8.618	Residual OCV %	99.91%		OCV (V)	8.635	8.625	Residual OCV %	99.88%	
Sample No.: 05					Sample No.: 06						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	145.894	145.892	Mass loss %	0.00%	P	Mass (g)	146.975	146.972	Mass loss %	0.00%	P
OCV (V)	8.645	8.635	Residual OCV %	99.88%		OCV (V)	8.639	8.631	Residual OCV %	99.91%	
Sample No.: 07					Sample No.: 08						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	146.876	146.874	Mass loss %	0.00%	P	Mass (g)	148.052	148.050	Mass loss %	0.00%	P
OCV (V)	8.633	8.624	Residual OCV %	99.90%		OCV (V)	8.627	8.618	Residual OCV %	99.90%	

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Control Number:LE-CU-15-11-012

T.4 Shock		Start time:2015/11/03 08:40 Finish time:2015/11/03 13:30				Ambient temp.: 21.4 ℃				Operator: Happy_Gu			
Sample No.: 01					Sample No.: 02								
	Before	After	Variation		Results		Before	After	Variation		Results		
Mass (g)	150.116	150.113	Mass loss %	0.00%	p	Mass (g)	147.348	147.345	Mass loss %	0.00%	p		
OCV (V)	8.613	8.610	Residual OCV %	99.97%		OCV (V)	8.623	8.620	Residual OCV %	99.97%			
Sample No.: 03					Sample No.: 04								
	Before	After	Variation		Results		Before	After	Variation		Results		
Mass (g)	145.850	145.847	Mass loss %	0.00%	p	Mass (g)	145.338	145.335	Mass loss %	0.00%	p		
OCV (V)	8.618	8.614	Residual OCV %	99.95%		OCV (V)	8.625	8.621	Residual OCV %	99.95%			
Sample No.: 05					Sample No.: 06								
	Before	After	Variation		Results		Before	After	Variation		Results		
Mass (g)	145.692	145.689	Mass loss %	0.00%	p	Mass (g)	146.972	146.969	Mass loss %	0.00%	p		
OCV (V)	8.635	8.632	Residual OCV %	99.97%		OCV (V)	8.631	8.629	Residual OCV %	99.98%			
Sample No.: 07					Sample No.: 08								
	Before	After	Variation		Results		Before	After	Variation		Results		
Mass (g)	146.874	146.871	Mass loss %	0.00%	p	Mass (g)	148.050	148.047	Mass loss %	0.00%	p		
OCV (V)	8.624	8.622	Residual OCV %	99.98%		OCV (V)	8.618	8.615	Residual OCV %	99.97%			

T.5 External Short Circuit		Start time:2015/11/03 13:50 Finish time:2015/11/04 09:10				Ambient temp.: 20.6 ℃				Operator: Happy_Gu						
	Sample No.: 01	Sample No.: 02		Sample No.: 03		Sample No.: 04		Sample No.: 05		Sample No.: 06		Sample No.: 07		Sample No.: 08		
Resistance (<100mΩ)	56.8		59.2		57.3		56.6		55.7		57.9		58.8		57.3	
OCV before test/ after short circuit(V)	8.610	0.000	8.620	0.000	8.614	0.000	8.621	0.000	8.632	0.000	8.629	0.000	8.622	0.000	8.615	0.000
Max Temp. (< 170℃)	54.8		55.3		55.8		54.6		55.2		55.6		54.7		55.4	
Results	P		P		P		P		P		P		P		P	

T.6 Impact / Crush		Start time:2015/10/13 08:30 Finish time:2015/10/13 18:40				Ambient temp.: 19.4 ℃				Operator: Happy_Gu					
<input type="checkbox"/> Impact-Cylindrical cells greater than 20mm in diameter <input checked="" type="checkbox"/> Crush- Prismatic, pouch, coin/button cells and cylindrical cells not more than 20mm in diameter															
	Sample No.: 01C		Sample No.: 02C		Sample No.: 03C		Sample No.: 04C		Sample No.: 05C						
OCV before test(V)	3.840		3.841		3.841		3.840		3.840						
Max Temp. (< 170℃)	29.6		31.2		31.9		30.5		31.4						
Results	P		P		P		P		P						

T.7 Overcharge		Start time:2015/10/26 10:20 Finish time:2015/11/06 13:10				Ambient temp.: 18.9 ℃				Operator: Happy_Gu			
	Sample No.: 09	Sample No.: 10	Sample No.: 11	Sample No.: 12	Sample No.: 13	Sample No.: 14	Sample No.: 15	Sample No.: 16					
OCV before test(V)	8.751	8.744	8.755	8.750	8.746	8.746	8.743	8.748					
Results	P	P	P	P	P	P	P	P					

T.8 Forced Discharge		Start time:2015/10/27 08:30 Finish time:2015/11/06 09:30				Ambient temp.: 20.4 ℃				Operator: Happy_Gu			
	Sample No.: 06C		Sample No.: 07C		Sample No.: 08C		Sample No.: 09C		Sample No.: 10C				
OCV before test(V)	3.375		3.376		3.381		3.384		3.372				
Results	P		P		P		P		P				
	Sample No.: 11C		Sample No.: 12C		Sample No.: 13C		Sample No.: 14C		Sample No.: 15C				
OCV before test(V)	3.373		3.371		3.372		3.373		3.376				
Results	P		P		P		P		P				
	Sample No.: 16C		Sample No.: 17C		Sample No.: 18C		Sample No.: 19C		Sample No.: 20C				
OCV before test(V)	3.381		3.380		3.382		3.382		3.380				
Results	P		P		P		P		P				
	Sample No.: 21C		Sample No.: 22C		Sample No.: 23C		Sample No.: 24C		Sample No.: 25C				
OCV before test(V)	3.381		3.382		3.384		3.383		3.382				
Results	P		P		P		P		P				

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Control Number:LE-CU-15-11-012

7. Test sample:



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