

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 NO: LE-CU-15-07-026

UN38.3 Test Report

Recommendations on the TRANSPORT OF DANGEROUS GOODS

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

Customer: Lenovo

Model: L15M6P11

Rating: 11.4V, 50Wh, 4390mAh

Test duration: 2015/6/29~2015/7/23

Approved By	Checked By	Prepared By
WineI Zhao	WineI Zhao	Happy-Gin.

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1. Purpose of the Test:

To test each cell/battery is of the type proved to meet the requirements in the Recommendations on the TRANSPORT OF DANGEROUS GOODS, Manual of Tests and Criteria, Fifth revised edition, Amend 1.

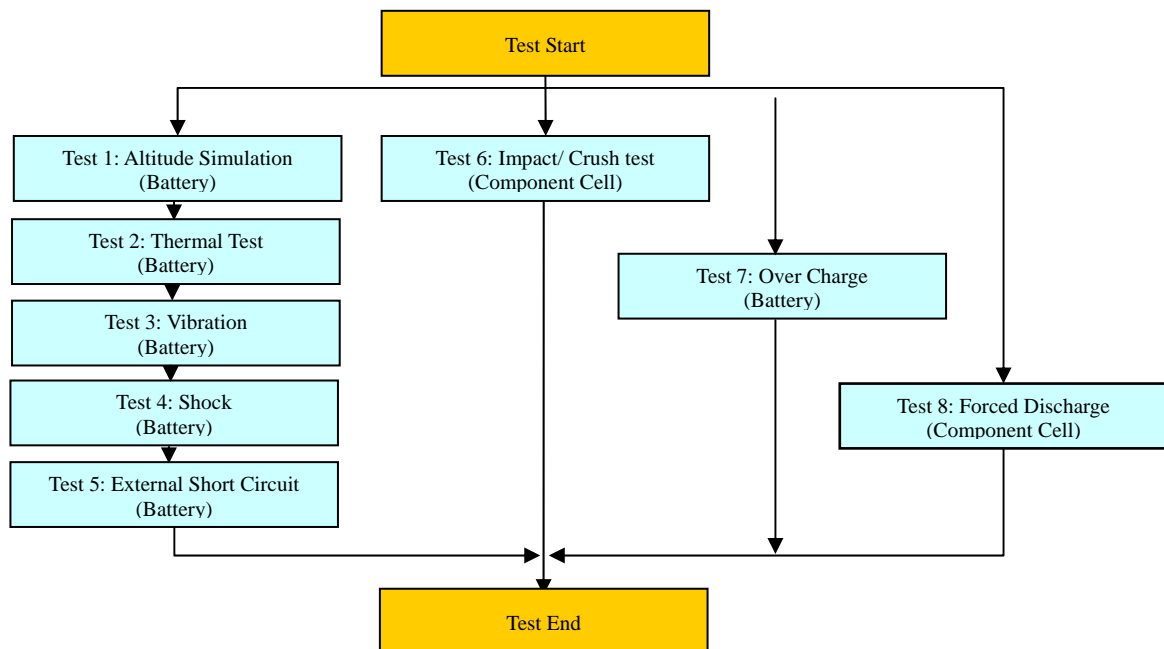
2. Test Quantity:

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

3. Test procedure:

3.1 All detail related test procedure shall be follow Standard Operation Procedure of SMP subjected CW01-5916 Rev.4 issue documentation.

3.2 Test flow shall be follow below statement.





4. Test Result:

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

- 4.1.1 All batteries could meet the requirement, mass loss was less than 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°C.
- 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°C.
- 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 NO: LE-CU-15-07-026

5. Test Equipment:



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Revised date: 2015/6/21

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Date:2015/6/29~2015/7/23

Mdel name: L15M6P11

Test Instruments Reference List									
Used	Instrument ID(New)	Instrument ID(Old)	Instrument Name	Type	Range Used	Manufacturer	CalibrationDate_Last	Calibration Date_Next	Remarks
Protect									
V	EE01-CA-I00002	C602MD0/S0096	715 learning機	新普科技	18V/8A	新普科技	2014/12/30	2015/12/29	
V	EE03-CA-I00018	C602MD0/S0107	720 learning機	新普科技	Chang:18V/17A Discharge:16V/18A	新普科技	2015/03/09	2016/03/08	
	EE01-CA-I00003	C602MD0/S0099	715 learning機	新普科技	18V/8A	新普科技	2015/03/09	2016/03/08	
	EE01-CA-I00005	C602MD0/S0098	715 learning機	新普科技	18V/8A	新普科技	2015/04/08	2016/04/07	
	EE03-CA-I00020	C602MD0/S0163	720 learning機	新普科技	Chang:18V/17A Discharge:16V/18A	新普科技	2014/10/21	2015/10/20	
Low Pressure Test									
V	EC15-CA-E00003	C602MD0/0462	Altitude	SVT-110	Kpa: 0 ~ 99Kpa	HSIN JIANG	2014/09/08	2015/09/07	
V	EA02-CA-I00002	C602MD0/0293	mΩ Hitester	3561	R:-10~310mΩ V:-20~20V	HIOKI	2014/9/17	2015/9/16	
V	EF03-CA-I00001	C602MD0/C0604	Electronic Balance	XS1220M-SCS	1220g±0.001g	CHENGZHUN	2014/10/21	2015/10/20	
V	ED01-CA-I00007	C602MD0/T0412	Thermo Meter	TA218	T : -10℃ ~70℃ RH : 25% ~ 98%	KTJ	2014/8/27	2015/8/26	
Thermal Test									
V	EC29-CA-E00002	C602MD0/0671	Thermal Shock	TSK-A4C-150	T:-65℃ to 150℃	KSON	2015/06/08	2016/06/07	
V	EA02-CA-I00002	C602MD0/0293	mΩ Hitester	3561	R:-10~310mΩ V:-20~20V	HIOKI	2014/9/17	2015/9/16	
V	EF03-CA-I00001	C602MD0/C0604	Electronic Balance	XS1220M-SCS	1220g±0.001g	CHENGZHUN	2014/10/21	2015/10/20	
V	ED01-CA-I00007	C602MD0/T0412	Thermo Meter	TA218	T : -10℃ ~70℃ RH : 25% ~ 98%	KTJ	2014/8/27	2015/8/26	
Vibration Test									
V	EC08-CA-E00001	C602MD0/0197	Vibration	EM200F2K-25N50	F:3~2000Hz G:0.2~55G	King Design	2015/3/11	2016/3/10	
	EC08-CA-E00002	C602MD0/0052	Vibration	EM200F2K-25N50	F:3~2000Hz G:0.2~55G	King Design	2014/9/24	2015/9/23	
V	EA02-CA-I00002	C602MD0/0293	mΩ Hitester	3561	R:-10~310mΩ V:-20~20V	HIOKI	2014/9/17	2015/9/16	
V	EF03-CA-I00001	C602MD0/C0604	Electronic Balance	XS1220M-SCS	1220g±0.001g	CHENGZHUN	2014/10/21	2015/10/20	
Shock Test									
V	EC17-CA-E00001	C602MD0/0570	Shock	HS 15/45	G:10~2000G	Lansmont	2014/09/08	2015/09/07	
V	EA02-CA-I00002	C602MD0/0293	mΩ Hitester	3561	R:-10~310mΩ V:-20~20V	HIOKI	2014/9/17	2015/9/16	
V	EF03-CA-I00001	C602MD0/C0604	Electronic Balance	XS1220M-SCS	1220g±0.001g	CHENGZHUN	2014/10/21	2015/10/20	
External Short Circuit Test									
V	EA02-CA-I00002	C602MD0/0293	mΩ Hitester	3561	R:-10~310mΩ V:-20~20V	HIOKI	2014/9/17	2015/9/16	
V	EA09-CA-I00004	C602MD0/0207	Data logger	34970A	V: 0~ 300V, T: -150℃~1200℃	Agilent	2014/09/17	2015/09/16	
V	EC26-CA-I00023	C602MD0/0518	chamber	WIT TH-2P-E	-40℃ to 150℃	WIT	2014/08/11	2015/08/10	
V	ED01-CA-I00007	C602MD0/T0412	Thermo Meter	TA218	T : -10℃ ~70℃ RH : 25% ~ 98%	KTJ	2014/8/27	2015/8/26	
Impact Test/Cursh Test									
	EC17-CA-I00001	C602MD0/1204	Impact test	100-372	H:60~80cm	JYI SHENG	2014/9/17	2015/9/16	
V	EC23-CA-E00001	C602MD0/0743	Cursh Test	BE-6047	1.0KN~15.0KN	BELL	2014/09/08	2015/09/07	
V	EA09-CA-I00005	C602MD0/0588	Data logger	34970A	V: 0~ 300V, T: -150℃~1200℃	Agilent	2014/09/17	2015/09/16	
V	ED01-CA-I00010	C602MD0/T0581	Thermo Meter	TA218	T : -10℃ ~70℃ RH : 25% ~ 98%	KTJ	2015/6/21	2016/6/20	
Overcharge Test									
V	EA06-CA-E00003	C602MD0/P0779	Power Supply	DS6024	0~60V 0~24A	MOTECH	2015/03/11	2016/03/10	
V	EA06-CA-E00002	C602MD0/P0777	Power Supply	DS6024	0~60V 0~24A	MOTECH	2015/03/11	2016/03/10	
V	EA06-CA-E00001	C602MD0/P0775	Power Supply	DS6024	0~60V 0~24A	MOTECH	2015/03/11	2016/03/10	
V	EA06-CA-E00004	C602MD0/P0781	Power Supply	DS6024	0~60V 0~24A	MOTECH	2015/03/11	2016/03/10	
V	ED01-CA-I00007	C602MD0/T0412	Thermo Meter	TA218	T : -10℃ ~70℃ RH : 25% ~ 98%	KTJ	2014/8/27	2015/8/26	
Froced Discharge Test									
V	EA06-CA-I00004	/	Power Supply	E3633A	0~8V,20A,0~20V,10A	AGILENT	2014/9/17	2015/9/16	
V	EA06-CA-I00016	/	Power Supply	E3633A	0~8V,20A,0~20V,10A	AGILENT	2015/5/9	2016/5/8	
V	EA06-CA-I00015	C602MD0/P0481	Power Supply	E3633A	0~8V,20A,0~20V,10A	AGILENT	2015/5/9	2016/5/8	
V	EA05-CA-I00006	/	Electronic LOAD	3311D	60V/60A, 300W	PRODIGIT	2015/05/11	2016/5/10	
V	EA05-CA-I00009	/	Electronic LOAD	3311F	60V/60A, 300W	PRODIGIT	2015/05/11	2016/5/10	
V	EA05-CA-I00008	C602MD0/L0402	Electronic LOAD	3311F	60V/60A, 300W	PRODIGIT	2014/08/13	2015/08/12	

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: 0.01m A-3A at 60Hz, 0.01m A-1A, at 1kHz

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Control NO: LE-CU-15-07-026

6. T.1~T8 detail reports:

UN 38.3 Test Datasheet

Control No.:LE-CU-15-07-026

Customer: Lenovo

Model Name:L15M6P11

Test Duration: 2015/6/29~2015/7/23

Reviewer: Wind_Zhao

Test Sample Identification:

Battery						Component Cell		
Used	Sample No.	Sample State	Used	Sample No.	Sample State	Used	Sample No.	Sample State
√	1~4	1 Cycle, Fully charged	√	5~8	50 Cycle, Fully charged	√	1C~5C	1 Cycle, 50% charged
√	9~12	1 Cycle, Fully charged	√	13~16	50 Cycle, Fully charged	√	6C~15C	1 Cycle, 0% charged
		25Cycle, Fully charged			25 Cycle, Fully charged	√	16C~25C	50 Cycle, 0% charged

T.1 Altitude Simulation											
Start time:2015/7/13 08:20					Ambient temp.: 22.7 ℃		Operator: Happy_Gu				
Finish time:2015/7/13 17:30											
Sample No.: 01					Sample No.: 02						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	237.64	237.63	Mass loss %	0.00%	P	Mass (g)	236.98	236.97	Mass loss %	0.00%	P
OCV (V)	12.964	12.952	Residual OCV %	99.91%		OCV (V)	12.954	12.943	Residual OCV %	99.92%	
Sample No.: 03					Sample No.: 04						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	237.76	237.76	Mass loss %	0.00%	P	Mass (g)	237.35	237.34	Mass loss %	0.00%	P
OCV (V)	12.935	12.923	Residual OCV %	99.91%		OCV (V)	12.961	12.945	Residual OCV %	99.88%	
Sample No.: 05					Sample No.: 06						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	237.25	237.25	Mass loss %	0.00%	P	Mass (g)	237.74	237.73	Mass loss %	0.00%	P
OCV (V)	12.957	12.942	Residual OCV %	99.88%		OCV (V)	12.962	12.949	Residual OCV %	99.90%	
Sample No.: 07					Sample No.: 08						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	237.16	237.15	Mass loss %	0.00%	P	Mass (g)	237.51	237.51	Mass loss %	0.00%	P
OCV (V)	12.956	12.942	Residual OCV %	99.89%		OCV (V)	12.944	12.929	Residual OCV %	99.88%	

T.2 Thermal Test											
Start time:2015/7/13 17:40					Ambient temp.: 23.4 ℃		Operator: Happy_Gu				
Finish time:2015/7/20 08:20											
Sample No.: 01					Sample No.: 02						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	237.63	237.63	Mass loss %	0.00%	P	Mass (g)	236.97	236.97	Mass loss %	0.00%	P
OCV (V)	12.952	12.792	Residual OCV %	98.76%		OCV (V)	12.943	12.787	Residual OCV %	98.73%	
Sample No.: 03					Sample No.: 04						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	237.76	237.75	Mass loss %	0.00%	P	Mass (g)	237.34	237.34	Mass loss %	0.00%	P
OCV (V)	12.923	12.764	Residual OCV %	98.77%		OCV (V)	12.945	12.786	Residual OCV %	98.77%	
Sample No.: 05					Sample No.: 06						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	237.25	237.25	Mass loss %	0.00%	P	Mass (g)	237.73	237.73	Mass loss %	0.00%	P
OCV (V)	12.942	12.781	Residual OCV %	98.76%		OCV (V)	12.949	12.785	Residual OCV %	98.73%	
Sample No.: 07					Sample No.: 08						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	237.15	237.15	Mass loss %	0.00%	P	Mass (g)	237.51	237.50	Mass loss %	0.00%	P
OCV (V)	12.942	12.780	Residual OCV %	98.75%		OCV (V)	12.929	12.766	Residual OCV %	98.74%	

T.3 Vibration											
Start time:2015/7/20 08:40					Ambient temp.: 23.3 ℃		Operator: Happy_Gu				
Finish time:2015/7/21 08:20											
Sample No.: 01					Sample No.: 02						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	237.63	237.62	Mass loss %	0.00%	P	Mass (g)	236.97	236.96	Mass loss %	0.00%	P
OCV (V)	12.792	12.776	Residual OCV %	99.87%		OCV (V)	12.787	12.775	Residual OCV %	99.91%	
Sample No.: 03					Sample No.: 04						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	237.75	237.74	Mass loss %	0.00%	P	Mass (g)	237.34	237.33	Mass loss %	0.00%	P
OCV (V)	12.764	12.747	Residual OCV %	99.87%		OCV (V)	12.786	12.772	Residual OCV %	99.89%	
Sample No.: 05					Sample No.: 06						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	237.25	237.24	Mass loss %	0.00%	P	Mass (g)	237.73	237.73	Mass loss %	0.00%	P
OCV (V)	12.781	12.770	Residual OCV %	99.91%		OCV (V)	12.785	12.767	Residual OCV %	99.86%	
Sample No.: 07					Sample No.: 08						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	237.15	237.14	Mass loss %	0.00%	P	Mass (g)	237.50	237.50	Mass loss %	0.00%	P
OCV (V)	12.780	12.767	Residual OCV %	99.90%		OCV (V)	12.766	12.752	Residual OCV %	99.89%	

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Control NO: LE-CU-15-07-026

T.4 Shock											
Start time:2015/7/21 08:40					Ambient temp.: 24.1 ℃						
Finish time:2015/7/21 13:30					Operator: Happy_Gu						
Sample No.: 01					Sample No.: 02						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	237.62	237.61	Mass loss %	0.00%	P	Mass (g)	236.96	236.96	Mass loss %	0.00%	P
OCV (V)	12.776	12.764	Residual OCV %	99.91%		OCV (V)	12.775	12.763	Residual OCV %	99.91%	
Sample No.: 03					Sample No.: 04						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	237.74	237.74	Mass loss %	0.00%	P	Mass (g)	237.33	237.33	Mass loss %	0.00%	P
OCV (V)	12.747	12.730	Residual OCV %	99.87%		OCV (V)	12.772	12.758	Residual OCV %	99.89%	
Sample No.: 05					Sample No.: 06						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	237.24	237.24	Mass loss %	0.00%	P	Mass (g)	237.73	237.72	Mass loss %	0.00%	P
OCV (V)	12.770	12.759	Residual OCV %	99.91%		OCV (V)	12.767	12.756	Residual OCV %	99.91%	
Sample No.: 07					Sample No.: 08						
	Before	After	Variation		Results		Before	After	Variation		Results
Mass (g)	237.14	237.14	Mass loss %	0.00%	P	Mass (g)	237.50	237.49	Mass loss %	0.00%	P
OCV (V)	12.767	12.754	Residual OCV %	99.90%		OCV (V)	12.752	12.737	Residual OCV %	99.88%	

T.5 External Short Circuit									
Start time:2015/7/21 13:50					Ambient temp.: 23.4 ℃				
Finish time:2015/7/22 09:10					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)	59.7	56.4	55.8	57.2	56.8	56.2	56.9	58.4	
OCV before test/ after short circuit(V)	12.764 0.000	12.763 0.000	12.730 0.000	12.758 0.000	12.759 0.000	12.756 0.000	12.754 0.000	12.737 0.000	
Max Temp. (< 170℃)	54.8	55.1	55.2	54.8	54.9	55.5	55.6	55.2	
Results	P	P	P	P	P	P	P	P	

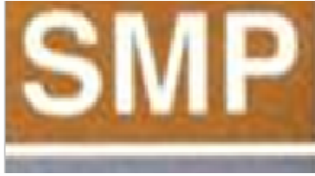
T.6 Impact / Crush (Component Cell)									
Start time:2015/7/1 08:30					Ambient temp.: 23.7 ℃				
Finish time:2015/7/1 18:40					Operator: Happy_Gu				
<input type="checkbox"/> Impact- Cylindrical cells greater than 20mm in diameter <input checked="" type="checkbox"/> Crush- Prismatic, pouch, coin/button 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)	3.811	3.809	3.802	3.804	3.801				
Max Temp. (< 170℃)	30.5	29.7	31.3	30.8	31.1				
Results	P	P	P	P	P				

T.7 Overcharge									
Start time:2015/7/14 10:20					Ambient temp.: 23.7 ℃				
Finish time:2015/7/23 13:10					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)	12.971	12.952	12.962	12.954	12.948	12.952	12.963	12.961	
Results	P	P	P	P	P	P	P	P	

T.8 Forced Discharge (Component Cell)									
Start time:2015/7/14 08:30					Ambient temp.: 24.0 ℃				
Finish time:2015/7/23 13:30					Operator: Happy_Gu				
	Sample No.: 06C	Sample No.: 07C	Sample No.: 08C	Sample No.: 09C	Sample No.: 10C				
OCV before test(V)	3.381	3.382	3.387	3.382	3.411				
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)	3.378	3.367	3.388	3.371	3.407				
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)	3.391	3.391	3.397	3.409	3.412				
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)	3.389	3.388	3.384	3.402	3.381				
Results	P	P	P	P	P				

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Control NO: LE-CU-15-07-026

7. Test sample:



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