



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:ELEU-1910003

Lithium-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: L19M3PF9

Rating/ Mass: 11.34V, Typ.4000mAh/45 Wh

Rated.3880mAh (44Wh) (205g)

Issue date:2019/10/30

Approved By	Checked By	Prepared By
Director General	Authorized Signatory	Test Engineer
<i>David Hu</i>	<i>Edison</i>	<i>Jack Fang</i>

SIMPLO TECHNOLOGY CO., LTD.

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

TEL: +886-3-5695920

FAX: +886-3-5695931

SIMPLO TECHNOLOGY (CHANGSHU) INC.

ADD : No.888 Dongnan Avenue, Changshu New & Hi-Tech Industrial Development Zone, Changshu, Jiangsu,

TEL: +86-512-52302255

FAX: +86-512-52302277

SIMPLO TECHNOLOGY (CHONGQING) INC.

ADD : No.2 Zongbao Avenue, Shapingba District, ChongQing, China

TEL: +86-23-61718899

FAX: +86-23-61210488

HUAPU TECHNOLOGY (CHANGSHU) INC.

ADD : No.888 Dongnan Avenue, Changshu New & Hi-Tech Industrial Development Zone, Changshu, Jiangsu,

TEL: +86-512-52302255

FAX: +86-512-52302277

Email : Test_Lab@simplo.com.tw

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



From No: EW01-3051-D

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Control Number: ELEU-1910003

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/>

	<p>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</p>
	<p>SIMPLO (CHANGSHU) Laboratory ADD : No.888 Dongnan Avenue, Changshu New & Hi-Tech Industrial Development Zone, Changshu, Jiangsu, China TEL: +86-512-52302255 FAX: +86-512-52302277</p>
●	<p>SIMPLO (CHONGQING) Laboratory. ADD : No.2 Zongbao Avenue, Shapingba District, ChongQing, China TEL: +86-23-61718899 FAX: +86-23-61210488</p>

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Control Number:ELEU-1910003

4. Product manufacturer : Email : Test_Lab@simplo.com.tw Website : http://www.simplo.com.tw/

●	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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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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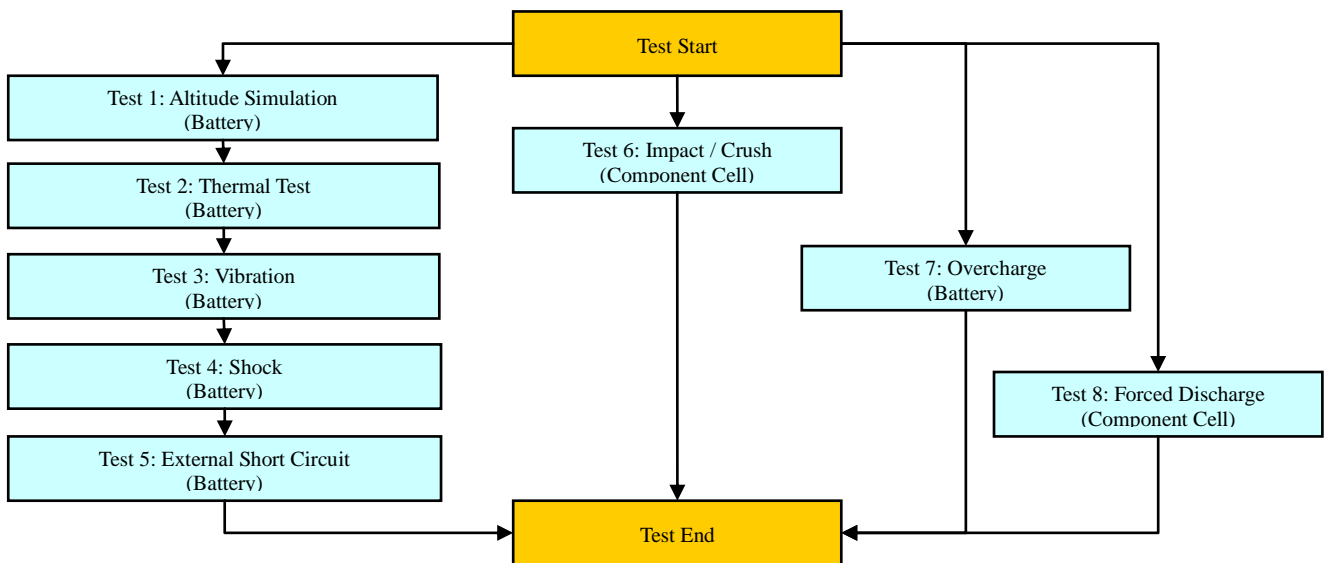
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6. Test Procedure :

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.



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Control Number:ELEU-1910003

7. Test Equipment :

SMP 新普科技(重慶)有限公司 **INOLOGY CO., LTD.**
 Simplo Technology (Chongqing) INC.

Address : No. 2, Zongbao Avenue, Shapingba District Chongqing, China
 TEL: 023-61718899; FAX: 023-61210488

Revised Date:2019/10/30

Test Instruments Reference List								
Used	Instrument ID	Instrument Name	Type	Range Used	Manufacturer	Calibration Date_Last	Calibration Date_Next	Remarks
Pretest								
V	E602M00/S0054	Learning	L715	0~18V 0~8A	SMP	2019/6/8	2020/6/7	
	E602M00/S0055	Learning	L715	0~18V 0~8A	SMP	2019/6/8	2020/6/7	
	E602M00/S0056	Learning	L715	0~18V 0~8A	SMP	2019/6/8	2020/6/7	
V	E602M00/0156	chamber	GCT-125-20-TT-SP	-40℃ to 150℃	GF	2019/5/20	2020/5/19	
	E602M00/0157	chamber	GCT-125-20-TT-SP	-40℃ to 150℃	GF	2019/5/20	2020/5/19	
	E602M00/0158	chamber	GCT-125-20-TT-SP	-40℃ to 150℃	GF	2019/5/20	2020/5/19	
T.1 Altitude Simulation								
V	E602M00/0568	Altitude	SVT-110	Kpa:0~90	HSIN JIANG	2019/3/19	2020/3/18	
V	E602M00/M0146	Multimeter	34401A	Note 1	Agilent	2019/5/10	2020/5/9	
V	E602M00/C0163	Electronic Balance	P7XJA510	0.001g	HZ&HUAZHI	2018/12/7	2019/12/6	
V	E602M00/T0310	Thermo meter	TA138	15~35℃; 30~80 %RH	KTJ	2019/6/4	2020/6/3	
T.2 Thermal Test								
V	E602M00/0102	Thermal Shock	GTST-080-65-AW	T:-40 to 120℃	GF	2019/3/19	2020/3/18	
V	E602M00/M0146	Multimeter	34401A	Note 1	Agilent	2019/6/4	2020/6/3	
V	E602M00/C0163	Electronic Balance	P7XJA510	0.001g	HZ&HUAZHI	2019/6/4	2020/6/3	
T.3 Vibration								
V	E602M00/0015	Vibration	EM-200F2K-25N50	F:2~2000Hz G:0.2~20G	King Design	2019/3/19	2020/3/18	
V	E602M00/M0146	Multimeter	34401A	Note 1	Agilent	2019/6/4	2020/6/3	
V	E602M00/C0163	Electronic Balance	P7XJA510	0.001g	HZ&HUAZHI	2018/12/7	2019/12/6	
V	E602M00/T0310	Thermo meter	TA138	15~35℃; 30~80 %RH	KTJ	2019/6/4	2020/6/3	
T.4 Shock								
V	E602M00/0269	Shock	ST-3040r	G:20 ~ 1,500	King Design	2019/3/19	2020/3/18	
V	E602M00/M0146	Multimeter	34401A	Note 1	Agilent	2019/6/4	2020/6/3	
V	E602M00/C0163	Electronic Balance	P7XJA510	0.001g	HZ&HUAZHI	2019/6/4	2020/6/3	
V	E602M00/T0310	Thermo meter	TA138	15~35℃; 30~80 %RH	KTJ	2019/6/4	2020/6/3	
T.5 External Short Circuit								
V	E602M00/I0030	mΩ Hitester	3561	R:-10~310mΩ V:-20~20V	HIOKI	2019/5/10	2020/5/9	
V	E602M00/M0564	Data logger	34970A	V: 0~ 300V,T: -150℃	Agilent	2019/5/10	2020/5/9	
V	E602M00/0162	chamber	ETH-120-45-SP-AR	-40℃ to 150℃	GF	2019/5/23	2020/5/22	
V	E602M00/T0310	Thermo meter	TA138	15~35℃; 30~80 %RH	KTJ	2019/6/4	2020/6/3	
T.6 Impact (Component cell) / Crush								
	E602M00/0267	Impact	KD-2054N	H:610 ± 25 mm	King Design	2019/3/19	2020/3/18	
V	E602M00/0268	Crush Tester	SPC-13KN	13 kN +/- 0.78 Kn	King Design	2019/3/19	2020/3/18	
V	E602M00/M0564	Data logger	34970A	V: 0~ 300V,T: -150℃	Agilent	2019/5/10	2020/5/9	
V	E602M00/T0310	Thermo meter	TA138	15~35℃; 30~80 %RH	KTJ	2019/6/4	2020/6/3	
T.7 Overcharge								
V	E602M00/P0493	Power Supply	DS6024	0~60V 0~24A	MOTECH	2019/3/19	2020/3/18	
V	E602M00/P0494	Power Supply	DS6024	0~60V 0~24A	MOTECH	2019/3/19	2020/3/18	
V	E602M00/P0495	Power Supply	DS6024	0~60V 0~24A	MOTECH	2019/3/19	2020/3/18	
V	E602M00/P0496	Power Supply	DS6024	0~60V 0~24A	MOTECH	2019/3/19	2020/3/18	
V	E602M00/M0563	Data Logger	34970A	V: 0~ 300V,T: -150℃~1200℃	Agilent	2019/5/10	2020/5/9	
V	E602M00/T0310	Thermo meter	TA138	15~35℃; 30~80 %RH	KTJ	2019/6/4	2020/6/3	
T.8 Forced Discharge								
V	E602M00/I0030	mΩ Hitester	3561	R:-10~310mΩ V:-20~20V	HIOKI	2019/5/10	2020/5/9	
V	E602M00/P0156	Power Supply	E3633A	0~8V,20A/0~20V,10A	AGILENT	2019/5/10	2020/5/9	
V	E602M00/P0414	Power Supply	E3633A	0~8V,20A/0~20V,10A	AGILENT	2019/5/10	2020/5/9	
V	E602M00/P0456	Power Supply	E3633A	0~8V,20A/0~20V,10A	AGILENT	2019/5/10	2020/5/9	
V	E602M00/L0100	Electronic LOAD	3311F	60V/60A, 300W	PRODIGIT	2019/5/10	2020/5/9	
V	E602M00/L0052	Electronic LOAD	3311F	60V/60A, 300W	PRODIGIT	2019/5/10	2020/5/9	
V	E602M00/L0001	Electronic LOAD	3311F	60V/60A, 300W	PRODIGIT	2019/5/10	2020/5/9	
V	E602M00/M0563	Data logger	34970A	V: 0~ 300V,T: -150℃~1200℃	Agilent	2019/5/10	2020/5/9	

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. Note2:V:0~300V, T:-150℃~1200℃

Form No.:EW01-3051-A

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Control Number:ELEU-1910003

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

SMP 新普科技(重慶)有限公司
 Sanku Technology (Chongqing) Ltd.,

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

Control Number:ELEU-1910003	Customer:LENOVO	Model Name:L19M3PF9	SMP Project Name:Kylin_45Wh
Pack P/N:928QA384HB	Configuration:3S/1P	Test Duration:2019/10/08-2019/10/29	Reviewer:Edison

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:	2019/10/18 08:30	Ambient temp.:						24.6 °C	Operator: Jack	
Finish time:	2019/10/18 17:30	Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08	
OCV (V)	Before	12.961	12.964	12.958	12.954	12.959	12.955	12.957	12.963	
	After	12.953	12.954	12.950	12.948	12.950	12.947	12.949	12.953	
	Residual OCV %	99.94%	99.92%	99.94%	99.95%	99.93%	99.94%	99.94%	99.92%	
Mass (g)	Before	205.426	205.823	205.521	205.478	205.655	205.781	205.633	205.529	
	After	205.416	205.818	205.509	205.467	205.642	205.772	205.624	205.520	
	Mass loss %	0.00%	0.00%	0.01%	0.01%	0.01%	0.00%	0.00%	0.00%	
Results		P	P	P	P	P	P	P	P	

T.2 Thermal Test

Start time:	2019/10/18 19:30	Ambient temp.:						24.2 °C	Operator: Jack	
Finish time:	2019/10/26 08:00	Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08	
OCV (V)	Before	12.953	12.954	12.950	12.948	12.950	12.947	12.949	12.953	
	After	12.811	12.820	12.814	12.808	12.815	12.805	12.805	12.813	
	Residual OCV %	98.90%	98.97%	98.95%	98.92%	98.96%	98.90%	98.89%	98.92%	
Mass (g)	Before	205.416	205.818	205.509	205.467	205.642	205.772	205.624	205.520	
	After	205.401	205.802	205.501	205.448	205.630	205.766	205.620	205.514	
	Mass loss %	0.01%	0.01%	0.00%	0.01%	0.01%	0.00%	0.00%	0.00%	
Results		P	P	P	P	P	P	P	P	

T.3 Vibration

Start time:	2019/10/26 08:30	Ambient temp.:						24.8 °C	Operator: Jack	
Finish time:	2019/10/26 18:30	Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08	
OCV (V)	Before	12.811	12.820	12.814	12.808	12.815	12.805	12.805	12.813	
	After	12.803	12.814	12.806	12.801	12.806	12.799	12.798	12.806	
	Residual OCV %	99.94%	99.95%	99.94%	99.95%	99.93%	99.95%	99.95%	99.95%	
Mass (g)	Before	205.401	205.802	205.501	205.448	205.630	205.766	205.620	205.514	
	After	205.400	205.801	205.501	205.445	205.627	205.766	205.617	205.514	
	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:	2019/10/26 19:00	Ambient temp.:						24.7 °C	Operator: Jack	
Finish time:	2019/10/26 21:30	Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08	
OCV (V)	Before	12.803	12.814	12.806	12.801	12.806	12.799	12.798	12.806	
	After	12.802	12.813	12.806	12.800	12.805	12.798	12.798	12.804	
	Residual OCV %	99.99%	99.99%	100.00%	99.99%	99.99%	99.99%	100.00%	99.98%	
Mass (g)	Before	205.400	205.801	205.501	205.445	205.627	205.766	205.617	205.514	
	After	205.398	205.801	205.500	205.445	205.627	205.764	205.617	205.512	
	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	

Form No. : EW01-3051-A

From No: EW01-3051-D

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Control Number: ELEU-1910003

SMP 新普科技(重慶)有限公司
 Simple Technology (Chongqing) Inc.

T.5 External Short Circuit

Start time:	2019/10/28 08:30	Ambient temp.:						24.5 °C	Operator:Jack	
Finish time:	2019/10/28 17:00	Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08	
OCV (V)	Before	12.798	12.810	12.802	12.797	12.801	12.793	12.795	12.800	
	After	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Resistance (<100mΩ)		51.44	52.41	51.87	52.05	51.75	52.20	52.59	51.85	
Max Temp. (< 170°C)		57.1	56.9	57.0	57.1	56.8	57.0	57.2	56.8	
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:	2019/10/25 08:30	Ambient temp.:				24.6 °C	Operator:Jack	
Finish time:	2019/10/25 19:00	Sample 01C	Sample 02C	Sample 03C	Sample 04C	Sample 05C		
Initial OCV (V)		3.733	3.738	3.741	3.741	3.742		
Max Temp. (< 170°C)		24.8	25.1	24.8	25.0	24.9		
Results		P	P	P	P	P		
Sample No.		Sample 06C	Sample 07C	Sample 08C	Sample 09C	Sample 10C		
Initial OCV (V)		3.734	3.741	3.732	3.732	3.733		
Max Temp. (< 170°C)		25.0	25.2	24.9	25.1	25.0		
Results		P	P	P	P	P		

T.7 Overcharge

Start time:	2019/10/20 08:30	Ambient temp.:						24.8 °C	Operator:Jack	
Finish time:	2019/10/29 11:00	Sample 09	Sample 10	Sample 11	Sample 12	Sample 13	Sample 14	Sample 15	Sample 16	
Initial OCV (V)		12.958	12.960	12.966	12.959	12.962	12.965	12.966	12.960	
Results		P	P	P	P	P	P	P	P	

T.8 Forced Discharge (Component Cell)

Start time:	2019/10/21 09:30	Ambient temp.:						24.6 °C	Operator:Jack	
Finish time:	2019/10/29 10:30	Sample 11C	Sample 12C	Sample 13C	Sample 14C	Sample 15C	Sample 16C	Sample 17C	Sample 18C	
Initial OCV (V)		3.436	3.432	3.438	3.441	3.444	3.434	3.435	3.441	
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)		3.444	3.443	3.432	3.436	3.435	3.440	3.437	3.442	
Results		P	P	P	P	P	P	P	P	
Sample No.		Sample 27C	Sample 28C	Sample 29C	Sample 30C					
Initial OCV (V)		3.439	3.421	3.433	3.437					
Results		P	P	P	P					

Form No. : EW01-3051-A

From No: EW01-3051-D

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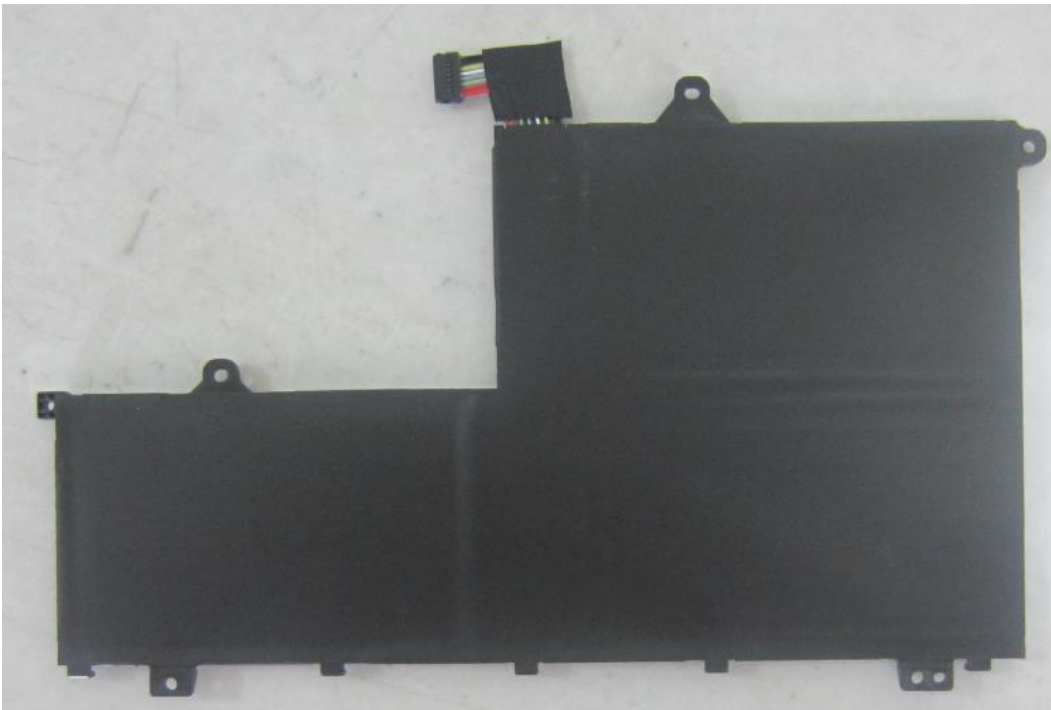
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Control Number:ELEU-1910003

9. Test Sample:



From No: EW01-3051-D

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