

UN38.3 Test Report

UN38.3 测试报告

样品名称

可充电电池组 Rechargeable Li-ion Battery Pack
ACER, AP23A7L, 11.25V, TYP 4715mAh/ 53Wh/ Rated

Sample name:

4620mAh/ 52Wh/ HIGHPOWER/ 208(g)

委托单位

新普科技股份有限公司
SIMPLO TECHNOLOGY CO., LTD.

Consignor:

报告版本:

V01

Version of Test Report

批准 Approved By	审核 Checked By	编制 Prepared By
经理 Manager	授权签字人 Authorized Signatory	测试工程师 Test Engineer
		

新普科技股份有限公司

Simplo Technology Co., Ltd.

地址：新竹县湖口乡八德路2段471号

471 Pa Teh Rd, Sec 2 Hu Kou, Hsinchu Hsien, 303 Taiwan

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

Email : Test_Lab@simplo.com.twWebsite : <http://www.simplo.com.tw/>

Form NO. W11-002-B06

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样品名称 Sample name	可充电电池组 Rechargeable Li-ion Battery Pack ACER, AP23A7L, 11.25V, TYP 4715mAh/ 53Wh/ Rated 4620mAh/ 52Wh/ HIGHPOWER/ 208(g)		
委托单位 Consignor	新普科技股份有限公司 SIMPLO TECHNOLOGY CO., LTD.		
生产单位 Manufacturer	新普科技（重庆）有限公司 SIMPLO TECHNOLOGY (CHONGQING) INC		
检测方法/判定标准 Test method/Criterion	联合国《标准与试验手册》ST/SG/AC.10/11/Rev7 and Amend 1, section 38.3 Recommendations on the TRANSPORT OF DANGEROUS GOODS, Manual of the Tests and Criteria, Seventh revised edition, and Amend 1, section 38.3		
样品外观 Appearance	黑色塑料外壳。 Black Plastic film shell.		
样品接受日期 Accepted Date	Cell 2023/08/14	检测起迄日期 Test Date	Cell Test Duration: 2023/08/14~2023/08/23
	Pack 2023/08/21		Pack Test Duration: 2023/08/21~2023/09/06
检测项目 Test Items	高度模拟；热测试；振动；冲击；外短路；挤压；过充电；强制放电； Altitude Simulation；Thermal Test；Vibration；Shock；External Short Circuit； Crush；Overcharge；Forced Discharge；		
检测结论 Conclusion	经检测，该样品试验符合联合国《标准与试验手册》ST/SG/AC.10/11/Rev7 and Amend 1, section 38.3 标准要求。 The test results complied with the requirements of “Recommendations on the TRANSPORT OF DANGEROUS GOODS, Manual of the Tests and Criteria, Seventh revised edition, and Amend 1” , section 38.3		
备注 Remarks	可充电电池组 Rechargeable Li-ion Battery Pack		

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报告版本清单 List of report version		
版本 Version	修改内容 Modify content	生效日 Issue date
01	First publish	2023/09/11
以下空白	Blank below	

序号 No.	检测项目 Test items	标准要求或标准条款号 Standard requirement or the clause number of the standard	检测结果 Test results	本项结论 Conclusion	备注 Remarks
1	高度模拟 Altitude Simulation	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev7 and Amend 1, section 38.3 试验 T1 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev7 and Amend 1, section 38.3 Test T1	见附表 1 See Appendix 1	合格 Pass	
2	热测试 Thermal Test	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev7 and Amend 1, section 38.3 试验 T2 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev7 and Amend 1, section 38.3 Test T2	见附表 2 See Appendix 2	合格 Pass	
3	振动 Vibration	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev7 and Amend 1, section 38.3 试验 T3 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev7 and Amend 1, section 38.3 Test T3	见附表 3 See Appendix 3	合格 Pass	
4	冲击 Shock	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev7 and Amend 1, section 38.3 试验 T4 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev7 and Amend 1, section 38.3 Test T4	见附表 4 See Appendix 4	合格 Pass	

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5	外短路 External Short Circuit	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev7 and Amend 1, section 38.3 試驗 T5 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev7 and Amend 1, section 38.3 Test T5	见附表 5 See Appendix 5	合格 Pass	
6-1	撞击 Impact	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev7 and Amend 1, section 38.3 試驗 T6 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev7 and Amend 1, section 38.3 Test T6	见附表 6-1 See Appendix 6-1	N/A	
6-2	挤压 Crush	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev7 and Amend 1, section 38.3 試驗 T6 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev7 and Amend 1, section 38.3 Test T6	见附表 6-2 See Appendix 6-2	合格 Pass	
7	过充电 Overcharge	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev7 and Amend 1, section 38.3 試驗 T7 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev7 and Amend 1, section 38.3 Test T7	见附表 7 See Appendix 7	合格 Pass	
8	强制放电 Forced Discharge	联合国《标准与试验手册》 ST/SG/AC.10/11/Rev7 and Amend 1, section 38.3 試驗 T8 UN Manual of the Tests and Criteria, ST/SG/AC.10/11/Rev7 and Amend 1, section 38.3 Test T8	见附表 8 See Appendix 8	合格 Pass	
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检测环境条件 Test environment condition	环境温度：23.6°C~25.7°C；环境湿度：34%~41%。 Ambient temperature：23.6°C~25.7°C；Ambient humidity：34%~31%。
报告声明 Report statement	测试结果包含符合基于 ST/SG/AC.10/11/Rev7 and Amend 1, section 38.3 标准的决策规则的声明。 The test results contain statement of conformity with the decision rules which are based on the standards ST/SG/AC.10/11/Rev7 and Amend 1, section 38.3.
	本试验结果基于标准未规定、客户无需求，不对测量不确定度进行评定。 This test result does not evaluate the measurement uncertainty based on the fact that the standard is not specified and the customer has no demand.
	本报告中呈现的测试结果仅与测试项目/样品有关。 The test results presented in this report relate only to the test items/samples.

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附表 1 Appendix 1

序号 No.	1	检测项目 Test items			高度模拟 Altitude Simulation			
试样 编号 Sample No.	样品状态 Sample Status	开路电压 OCV/V		剩余 电压 Residual OCV	质量 Mass/g		质量 损失 Mass loss	其他现象 Other Event
		试验前 Before	试验后 After		试验前 Before	试验后 After		
01	1 Cycle 完全充电 1 Cycle Fully charged	12.805	12.797	99.94%	206.657	206.650	0.00%	O
02	1 Cycle 完全充电 1 Cycle Fully charged	12.802	12.794	99.94%	207.060	207.055	0.00%	O
03	1 Cycle 完全充电 1 Cycle Fully charged	12.793	12.779	99.89%	207.545	207.539	0.00%	O
04	1 Cycle 完全充电 1 Cycle Fully charged	12.794	12.785	99.93%	206.904	206.898	0.00%	O
05	25 Cycle 完全充电 25 Cycles Fully charged	12.799	12.790	99.93%	206.884	206.879	0.00%	O
06	25 Cycle 完全充电 25 Cycles Fully charged	12.736	12.731	99.96%	207.230	207.225	0.00%	O
07	25 Cycle 完全充电 25 Cycles Fully charged	12.801	12.791	99.92%	206.869	206.863	0.00%	O
08	25 Cycle 完全充电 25 Cycles Fully charged	12.800	12.792	99.94%	207.083	207.077	0.00%	O
以下 空白	Blank below							

注：L-泄漏, V-泄气, D-解体, R-破裂, F-起火, O-无泄漏、无泄气、无解体、无破裂且无起火。

Note: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire, O-No leakage, no venting, no disassembly, no rupture and no fire.

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附表 2 Appendix 2

序号 No.	2	检测项目 Test items			热测试 Thermal Test			
试样 编号 Sample No.	样品状态 Sample Status	开路电压 OCV/V		剩余 电压 Residual OCV	质量 Mass/g		质量 损失 Mass loss	其他现象 Other Event
		试验前 Before	试验后 After		试验前 Before	试验后 After		
01	1 Cycle 完全充电 1 Cycle Fully charged	12.797	12.440	97.21%	206.650	206.636	0.01%	O
02	1 Cycle 完全充电 1 Cycle Fully charged	12.794	12.438	97.22%	207.055	207.041	0.01%	O
03	1 Cycle 完全充电 1 Cycle Fully charged	12.779	12.422	97.21%	207.539	207.515	0.01%	O
04	1 Cycle 完全充电 1 Cycle Fully charged	12.785	12.434	97.25%	206.898	206.886	0.01%	O
05	25 Cycle 完全充电 25 Cycles Fully charged	12.790	12.440	97.26%	206.879	206.857	0.01%	O
06	25 Cycle 完全充电 25 Cycles Fully charged	12.731	12.431	97.64%	207.225	207.208	0.01%	O
07	25 Cycle 完全充电 25 Cycles Fully charged	12.791	12.445	97.29%	206.863	206.846	0.01%	O
08	25 Cycle 完全充电 25 Cycles Fully charged	12.792	12.441	97.26%	207.077	207.059	0.01%	O
以下 空白	Blank below							

注：L-泄漏, V-泄气, D-解体, R-破裂, F-起火, O-无泄漏、无泄气、无解体、无破裂且无起火。

Note: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire, O-No leakage, no venting, no disassembly, no rupture and no fire.

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附表 3 Appendix 3

序号 No.	3	检测项目 Test items			振动 Vibration			
试样 编号 Sample No.	样品状态 Sample Status	开路电压 OCV/V		剩余 电压 Residual OCV	质量 Mass/g		质量 损失 Mass loss	其他现象 Other Event
		试验前 Before	试验后 After		试验前 Before	试验后 After		
01	1 Cycle 完全充电 1 Cycle Fully charged	12.440	12.401	99.69%	206.636	206.622	0.01%	O
02	1 Cycle 完全充电 1 Cycle Fully charged	12.438	12.389	99.61%	207.041	207.028	0.01%	O
03	1 Cycle 完全充电 1 Cycle Fully charged	12.422	12.383	99.69%	207.515	207.506	0.00%	O
04	1 Cycle 完全充电 1 Cycle Fully charged	12.434	12.383	99.59%	206.886	206.871	0.01%	O
05	25 Cycle 完全充电 25 Cycles Fully charged	12.440	12.396	99.65%	206.857	206.845	0.01%	O
06	25 Cycle 完全充电 25 Cycles Fully charged	12.431	12.383	99.61%	207.208	207.199	0.00%	O
07	25 Cycle 完全充电 25 Cycles Fully charged	12.445	12.407	99.69%	206.846	206.834	0.01%	O
08	25 Cycle 完全充电 25 Cycles Fully charged	12.441	12.395	99.63%	207.059	207.045	0.01%	O
以下 空白	Blank below							

注：L-泄漏, V-泄气, D-解体, R-破裂, F-起火, O-无泄漏、无泄气、无解体、无破裂且无起火。

Note: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire, O-No leakage, no venting, no disassembly, no rupture and no fire.

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附表 4 Appendix 4

序号 No.	4	检测项目 Test items			冲击 Shock			
试样 编号 Sample No.	样品状态 Sample Status	开路电压 OCV/V		剩余 电压 Residual OCV	质量 Mass/g		质量 损失 Mass loss	其他现象 Other Event
		试验前 Before	试验后 After		试验前 Before	试验后 After		
01	1 Cycle 完全充电 1 Cycle Fully charged	12.401	12.396	99.96%	206.622	206.620	0.00%	O
02	1 Cycle 完全充电 1 Cycle Fully charged	12.389	12.385	99.97%	207.028	207.024	0.00%	O
03	1 Cycle 完全充电 1 Cycle Fully charged	12.383	12.379	99.97%	207.506	207.501	0.00%	O
04	1 Cycle 完全充电 1 Cycle Fully charged	12.383	12.381	99.98%	206.871	206.868	0.00%	O
05	25 Cycle 完全充电 25 Cycles Fully charged	12.396	12.393	99.98%	206.845	206.840	0.00%	O
06	25 Cycle 完全充电 25 Cycles Fully charged	12.383	12.377	99.95%	207.199	207.196	0.00%	O
07	25 Cycle 完全充电 25 Cycles Fully charged	12.407	12.402	99.96%	206.834	206.830	0.00%	O
08	25 Cycle 完全充电 25 Cycles Fully charged	12.395	12.391	99.97%	207.045	207.041	0.00%	O
以下 空白	Blank below							

注：L-泄漏, V-泄气, D-解体, R-破裂, F-起火, O-无泄漏、无泄气、无解体、无破裂且无起火。

Note: L-Leakage, V-Venting, D-Disassembly, R-Rupture, F-Fire, O-No leakage, no venting, no disassembly, no rupture and no fire.

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附表 5 Appendix 5

序号 No.	5	检测项目 Test items	外短路 External Short Circuit
试样 编号 Sample No.	样品状态 Sample Status	表面最高温度 Max. External Temperature/°C	其他现象 Other Event
01	1 Cycle 完全充电 1 Cycle Fully charged	59.4	O
02	1 Cycle 完全充电 1 Cycle Fully charged	59.3	O
03	1 Cycle 完全充电 1 Cycle Fully charged	59.2	O
04	1 Cycle 完全充电 1 Cycle Fully charged	59.0	O
05	25 Cycle 完全充电 25 Cycles Fully charged	59.1	O
06	25 Cycle 完全充电 25 Cycles Fully charged	59.5	O
07	25 Cycle 完全充电 25 Cycles Fully charged	59.3	O
08	25 Cycle 完全充电 25 Cycles Fully charged	59.2	O
以下 空白	Blank below		
注： D-解体, R-破裂, F-起火, O-无解体、无破裂且无起火 Note: D-Disassembly, R-Rupture, F-Fire, O-No disassembly, no rupture and no fire.			

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附表 6-1 Appendix 6-1

序号 No.	6-1	检测项目 Test items	撞击 Impact
试样编号 Sample No.	样品状态 Sample Status	表面最高温度 Max. External Temperature/°C	其他现象 Other Event
01 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	N/A	N/A
02 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	N/A	N/A
03 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	N/A	N/A
04 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	N/A	N/A
05 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	N/A	N/A
06 C	25 Cycle 50% 容量 25 Cycles 50% Capacity	N/A	N/A
07 C	25 Cycle 50% 容量 25 Cycles 50% Capacity	N/A	N/A
08 C	25 Cycle 50% 容量 25 Cycles 50% Capacity	N/A	N/A
09 C	25 Cycle 50% 容量 25 Cycles 50% Capacity	N/A	N/A
10 C	25 Cycle 50% 容量 25 Cycles 50% Capacity	N/A	N/A
以下 空白	Blank below		
注： D-解体, F-起火, O-无解体且无起火。 Note: D-Disassembly, F-Fire, O-No disassembly and no fire.			

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附表 6-2 Appendix 6-2

序号 No.	6-2	检测项目 Test items	挤压 Crush
试样编号 Sample No.	样品状态 Sample Status	表面最高温度 Max. External Temperature/°C	其他现象 Other Event
01 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	25.1	O
02 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	25.0	O
03 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	24.8	O
04 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	25.3	O
05 C	1 Cycle 50% 容量 1 Cycle 50% Capacity	26.3	O
06 C	25 Cycle 50% 容量 25 Cycles 50% Capacity	24.8	O
07 C	25 Cycle 50% 容量 25 Cycles 50% Capacity	24.8	O
08 C	25 Cycle 50% 容量 25 Cycles 50% Capacity	24.8	O
09 C	25 Cycle 50% 容量 25 Cycles 50% Capacity	25.1	O
10 C	25 Cycle 50% 容量 25 Cycles 50% Capacity	24.9	O
以下 空白	Blank below		
注： D-解体, F-起火, O-无解体且无起火 Note: D-Disassembly, F-Fire, O-No disassembly and no fire.			

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附表 7 Appendix 7

序号 No.	7	检测项目 Test items	过充电 Overcharge
试样编号 Sample No.	样品状态 Sample Status	其他现象 Other Event	
09	1 Cycle 完全充电 1 Cycle Fully charged	O	
10	1 Cycle 完全充电 1 Cycle Fully charged	O	
11	1 Cycle 完全充电 1 Cycle Fully charged	O	
12	1 Cycle 完全充电 1 Cycle Fully charged	O	
13	25 Cycle 完全充电 25 Cycles Fully charged	O	
14	25 Cycle 完全充电 25 Cycles Fully charged	O	
15	25 Cycle 完全充电 25 Cycles Fully charged	O	
16	25 Cycle 完全充电 25 Cycles Fully charged	O	
以下 空白	Blank below		
注： D-解体, F-起火, O-无解体且无起火 Note: D-Disassembly, F-Fire, O-No disassembly and no fire.			

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附表 8 Appendix 8

序号 No.	8	检测项目 Test items	强制放电 Forced Discharge
试样编号 Sample No.	样品状态 Sample Status	其他现象 Other Event	
11 C	1 Cycle 完全放电 1 Cycle Fully Discharged	O	
12 C	1 Cycle 完全放电 1 Cycle Fully Discharged	O	
13 C	1 Cycle 完全放电 1 Cycle Fully Discharged	O	
14 C	1 Cycle 完全放电 1 Cycle Fully Discharged	O	
15 C	1 Cycle 完全放电 1 Cycle Fully Discharged	O	
16 C	1 Cycle 完全放电 1 Cycle Fully Discharged	O	
17 C	1 Cycle 完全放电 1 Cycle Fully Discharged	O	
18 C	1 Cycle 完全放电 1 Cycle Fully Discharged	O	
19 C	1 Cycle 完全放电 1 Cycle Fully Discharged	O	
20 C	1 Cycle 完全放电 1 Cycle Fully Discharged	O	
21 C	25 Cycle 完全放电 25 Cycles Fully Discharged	O	
22 C	25 Cycle 完全放电 25 Cycles Fully Discharged	O	
23 C	25 Cycle 完全放电 25 Cycles Fully Discharged	O	
24 C	25 Cycle 完全放电 25 Cycles Fully Discharged	O	
25 C	25 Cycle 完全放电 25 Cycles Fully Discharged	O	
26 C	25 Cycle 完全放电 25 Cycles Fully Discharged	O	
27 C	25 Cycle 完全放电 25 Cycles Fully Discharged	O	
28 C	25 Cycle 完全放电 25 Cycles Fully Discharged	O	
29 C	25 Cycle 完全放电 25 Cycles Fully Discharged	O	
30 C	25 Cycle 完全放电 25 Cycles Fully Discharged	O	
以下空白	Blank below		

注： D-解体, F-起火, O-无解体且无起火

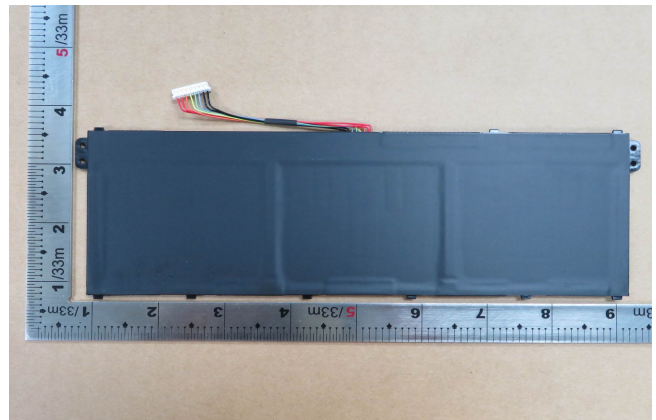
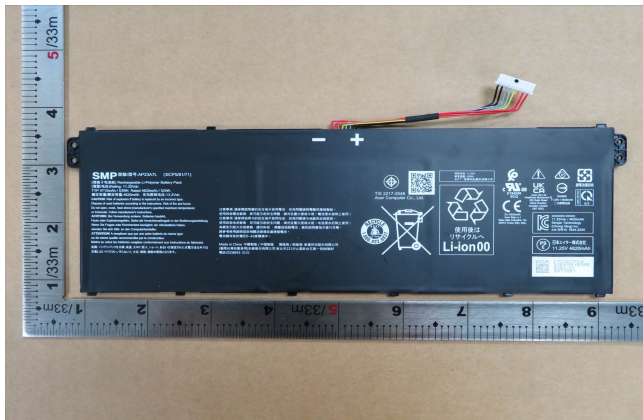
Note: D-Disassembly, F-Fire, O-No disassembly and no fire.

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待测物照片 Sample Pictures:



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儀器清冊 Test Equipment List:

 **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: 2023-09-11

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 0~7A	SMP	2023/1/17	2024/2/17	
V	ML-762	Learning	715C	0~18V 0~7A	SMP	2023/1/4	2024/2/4	
V	ML-763	Learning	715C	0~18V 0~7A	SMP	2023/1/17	2024/2/17	
	ML-925	Learning	750C8	20~60V 0~30A	SMP	2023/1/4	2024/2/4	
V	ML-1139	Learning	L720-191212-D	0~18V 0~12A	SMP	2023/1/4	2024/2/4	
T.1 Altitude Simulation								
V	ML-522	Altitude	SVT-120	kPa:0~95	HSIN JIANG	2023/5/31	2024/6/30	
V	ML-257	Multimeter	34401A	DCV : 0.1,1,10,100,1000V; DCI : 0.01,0.1,1,2,3A	Agilent	2023/1/17	2024/2/17	
V	ML-995	Electronic Balance	UX1020H	0.1-200 gf(TAF) 0.1-1000 gf	SHIMADZU	2023/1/4	2024/2/4	
	ML-1035	Electronic Balance	JWI-700W	0.01~30kg	JADEVER	2023/5/31	2024/6/30	
V	ML-550	Data Logger	313	15~35 °C; 30~80 %RH	CENTER	2023/7/30	2024/8/30	
V	ML-964	Barometric Air Pressure	MP55	750 to 1095 mbar	KIMO	2023/6/7	2024/7/7	
T.2 Thermal Test								
V	ML-789	Thermal Shock	GTST-080-65-AW	T:-40 to 100°C	GF	2023/1/4	2024/2/4	
V	ML-257	Multimeter	34401A	DCV : 0.1,1,10,100,1000V; DCI : 0.01,0.1,1,2,3A	Agilent	2023/1/17	2024/2/17	
V	ML-995	Electronic Balance	UX1020H	0.1-200 gf(TAF) 0.1-1000 gf	SHIMADZU	2023/1/4	2024/2/4	
	ML-1035	Electronic Balance	JWI-700W	0.01~30kg	JADEVER	2023/5/31	2024/6/30	
V	ML-551	Data Logger	313	15~35 °C; 30~80 %RH	CENTER	2023/7/30	2024/8/30	
T.3 Vibration								
V	ML-233	Vibration	KD-9363-EM-300F2K-30N80	F:2~2000Hz G:0.2~8G	King Design	2023/7/24	2024/8/24	
V	ML-257	Multimeter	34401A	DCV : 0.1,1,10,100,1000V; DCI : 0.01,0.1,1,2,3A	Agilent	2023/1/17	2024/2/17	
V	ML-995	Electronic Balance	UX1020H	0.1-200 gf(TAF) 0.1-1000 gf	SHIMADZU	2023/1/4	2024/2/4	
	ML-1035	Electronic Balance	JWI-700W	0.01~30kg	JADEVER	2023/5/31	2024/6/30	
V	ML-1152	Data Logger	LR-8514	15~35 °C; 30~80 %RH	HIOKI	2023/4/21	2024/5/21	
T.4 Shock								
V	ML-056	Shock	DP-1200-25	G:10~500G	King Design	2023/7/24	2024/8/24	
V	ML-257	Multimeter	34401A	DCV : 0.1,1,10,100,1000V; DCI : 0.01,0.1,1,2,3A	Agilent	2023/1/17	2024/2/17	
V	ML-995	Electronic Balance	UX1020H	0.1-200 gf(TAF) 0.1-1000 gf	SHIMADZU	2023/1/4	2024/2/4	
	ML-1035	Electronic Balance	JWI-700W	0.01~30kg	JADEVER	2023/5/31	2024/6/30	
V	ML-551	Data Logger	313	15~35 °C; 30~80 %RH	CENTER	2023/7/30	2024/8/30	
T.5 External Short Circuit								
V	ML-894	Battery Hitester	BT3562	10mΩ ~ 3kΩ 0-59V	HIOKI	2023/4/14	2024/5/14	
V	ML-257	Multimeter	34401A	DCV : 0.1,1,10,100,1000V; DCI : 0.01,0.1,1,2,3A	Agilent	2023/1/17	2024/2/17	
V	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, 0 to 200°C	Yokogawa	2023/6/30	2024/7/30	
V	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, 0 to 200°C	Yokogawa	2023/6/30	2024/7/30	
	ML-1153	Data Acquisition	LR-8450	1-100 Vdc, 0 to 500°C	HIOKI	2023/4/27	2024/5/27	
V	ML-521	Oven	9031	30~70 °C	YEOW LONG	2023/8/21	2024/9/21	
	ML-1023	Oven	GCT-125-20-TR-SP	-20~100 °C	GF	2023/7/25	2024/8/25	
V	ML-1083	Data Logger	1161	15~35 °C; 30~80 %RH	TES	2022/9/14	2023/10/14	

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Test Instruments Reference List

Used	Instrument ID	Instrument Name	Type	Range of use	Manufacturer	Calibration Date Last	Calibration Date Next	Remarks
T.6 Impact / Crush								
V	ML-458	Data Acquisition	XL122-D	1-50 Vdc, 0 to 200°C	Yokogawa	2023/4/21	2024/5/21	
	ML-1153	Data Acquisition	LR-8450	1-100 Vdc, 0 to 500°C	HIOKI	2023/4/27	2024/5/27	
	ML-1016	Impact Tester	KD-2054E	9.1kg 15.8mm H:610mm	King Design	2023/3/23	2024/4/23	
	ML-553	Crush Tester	BCT-01	1.32~10.2 ton Speed : 10, 15, 20mm/s	Simplo	2023/3/23	2024/4/23	
V	ML-866	Crush Tester	M0654	1327kg 15mm 2-5 Vdc, 10 to 200°C	JYI SHENG	2023/3/23	2024/4/23	
V	ML-1083	Data Logger	1161	15~35 °C; 30~80 %RH	TES	2022/9/14	2023/10/14	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, 0 to 200°C	Yokogawa	2023/7/30	2024/8/30	
T.7 Overcharge								
	ML-482	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2023/4/21	2024/5/21	
	ML-489	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2023/4/21	2024/5/21	
	ML-904	Programmable DC Source	DS10014-MO	1-100Vdc, 0.3-14.4A	B&K Precision	2023/4/21	2024/5/21	
	ML-487	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2023/4/21	2024/5/21	
	ML-488	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2023/4/21	2024/5/21	
	ML-490	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2023/5/24	2024/6/24	
V	ML-1083	Data Logger	1161	15~35 °C; 30~80 %RH	TES	2022/9/14	2023/10/14	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, 0 to 200°C	Yokogawa	2023/6/30	2024/7/30	
	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, 0 to 200°C	Yokogawa	2023/6/30	2024/7/30	
V	ML-918	Overcharge & Forced discharge tester	T901	Charge: 0.2~29.4Vdc, 0.2~18A Discharge: 3~19.5Vdc 0.1~11A	SMP	2023/4/21	2024/5/21	
T.8 Forced Discharge								
	ML-894	Battery Hitester	BT3562	10mΩ ~ 3kΩ 0-59V	HIOKI	2023/4/14	2024/5/14	
	ML-132	Electronic Load	3311C	60V,60A, 300W	Prodigit	2023/1/16	2024/2/16	
	ML-133	Electronic Load	3311C	60V,60A, 300W	Prodigit	2023/1/16	2024/2/16	
	ML-136	Electronic Load	3311C	60V,60A, 300W	Prodigit	2023/1/16	2024/2/16	
	ML-192	Electronic Load	3311C	60V,60A, 300W	Prodigit	2023/1/16	2024/2/16	
	ML-269	Electronic Load	3311C	60V,60A, 300W	Prodigit	2023/1/16	2024/2/16	
	ML-532	DC Electronic Load	33511-01	120V, 99.64A	Prodigit	2023/5/24	2024/6/24	
	ML-482	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2023/4/21	2024/5/21	
	ML-489	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2023/4/21	2024/5/21	
	ML-904	Programmable DC Source	DS10014-MO	1-100Vdc, 0.3-14.4A	B&K Precision	2023/4/21	2024/5/21	
	ML-487	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2023/4/21	2024/5/21	
	ML-488	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2023/4/21	2024/5/21	
	ML-490	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2023/5/24	2024/6/24	
V	ML-1083	Data Logger	1161	15~35 °C; 30~80 %RH	TES	2022/9/14	2023/10/14	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, 0 to 200°C	Yokogawa	2023/6/30	2024/7/30	
	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, 0 to 200°C	Yokogawa	2023/6/30	2024/7/30	
V	ML-918	Overcharge & Forced discharge tester	T901	Charge: 0.2~29.4Vdc, 0.2~18A Discharge: 3~19.5Vdc 0.1~11A	SMP	2023/4/21	2024/5/21	
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.								

****报告结束 End of Test Report****

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