

Celxpert(kunshan)Energy Co.,Ltd

Battery Pack UN38.3 Test Report

Customer: **Lenovo**

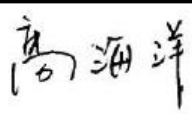
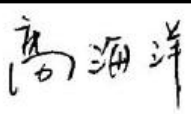
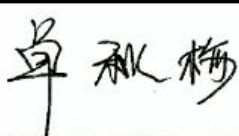
Model: **L18C3PD2**

Rating: **11.52V**

Capacity: **Typical:4950mAh/57Wh**

Retad :4830mAh/55Wh

IssueDate:Apr.08.2019

Approved By	Checked By	Prepared By
		
Section manager	Section manager	Engineer





UN38.3 试验概要

UN38.3 Test Summary



811900100329878

单位信息 Company information			
委托单位 Consignor	加百裕(昆山)电子有限公司 Celxpert (Kunshan) Energy Co.,Ltd 江苏省昆山市玉山镇汉浦路1111号 NO.1111, Hanpu Road, Yushan Town, Kunshan City, Jiangsu Province, P.R. China 0512-57775999-8239 frank_gao@cn.celxpert.com www.celxpert.com.tw		
生产单位 Manufacturer	加百裕(昆山)电子有限公司 Celxpert (Kunshan) Energy Co.,Ltd 江苏省昆山市玉山镇汉浦路1111号 NO.1111, Hanpu Road, Yushan Town, Kunshan City, Jiangsu Province, P.R. China 0512-57775999-8239 frank_gao@cn.celxpert.com www.celxpert.com.tw		
测试单位 Test lab	加百裕(昆山)电子有限公司 Celxpert (Kunshan) Energy Co.,Ltd 江苏省昆山市玉山镇汉浦路1111号 NO.1111, Hanpu Road, Yushan Town, Kunshan City, Jiangsu Province, P.R. China 0512-57775999-8239 frank_gao@cn.celxpert.com www.celxpert.com.tw		
电池信息 Battery information			
名称 Name	二次锂电池组/锂电池/锂离子电池/锂离子电池组/充电电池/锂电池组/可充电式锂离子电池组 Rechargeable Li-ion battery	品牌 Brand	Lenovo
型号 Type	L18C3PD2	原始测试型号 Original tested type	/
标称电压(V) Nominal voltage	11.52	容量/能量 Capacity/energy	4830mAh 55Wh
描述 Description	可充电锂离子电池组 Rechargeable Li-ion battery	锂含量(g) Li content	/
质量(kg) Mass	0.227	外观 Appearance	黑色塑胶及塑料薄膜外壳 black plastics cement and plastic film shell
测试信息 Test information			
原报告编号 Original test report No.	CPK-Lab-UN383PACK19010-A	测试报告日期 Date of test report	2019-04-08
测试标准 Test standard	联合国《关于危险货物运输的建议书 试验和标准手册》第38.3章 UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS" Manual of Tests and Criteria 38.3 ST/SG/AC.10/11/Rev.6/Amend.1		
T.1 高度模拟 Altitude simulation	合格 Passed	T.2 温度测试 Thermal test	合格 Passed
T.3 振动测试 Vibration	合格 Passed	T.4 冲击测试 Shock	合格 Passed
T.5 外部短路 External short circuit	合格 Passed	T.6 挤压 Crush	合格 Passed
T.7 过度充电 Overcharge	合格 Passed	T.8 强制放电 Forced discharge	合格 Passed
38.3.3 (f)	/	38.3.3 (g)	/



1.Standard

UN38.3S-T/SG/AC.10/11/Rev.6/Amend.1

2.Sample Description

Model Name	L18C3PD2	Pack Configuration	3S1P
Sample type	Pack 16pcs/Cell 30pcs	Use	NB
Cell Factory/Model	ATL 478769 4950mAh	Battery weight	227.31g
Factory Address	NO.1111, Hanpu Road, Yushan Town, Kunshan City, Jiangsu Province, P.R. China	Laboratory Address:	NO.1111, Hanpu Road, Yushan Town, Kunshan City, Jiangsu Province, P.R. China
Factory Name:	Celxpert (kunshan) Energy,Ltd	Laboratory Name:	CPK LAB
Factory TEL	+86-512-57775999	Laboratory Tel:	+86-512-57775999
Factory E-mail:	Frank_Gao@cn.celxpert.com	Laboratory E-mail:	Frank_Gao@cn.celxpert.com
Factory Web:	www.celxpert.com.tw	Laboratory Web:	www.celxpert.com.tw
Client Date	2019/03/18	Completing Data	2019/04/04

3. Test items and quantity

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| T.1. ☒ Altitude simulation | T.5. ☒ External short circuit |
| T.2. ☒ Thermal test | T.6. ☐ Impact / ☒ Crush |
| T.3. ☒ Vibration | T.7. ☒ Overcharge |
| T.4. ☒ Shock | T.8. ☒ Forced discharge |

summary table of required test for rechargeable cells and batteries

		T.1	T.2	T.3	T.4	T.5	T.6	T.7	T.8	SUM
Cell	First cycle,50% charged state						5			30
	25th cycle,50% charged state						5			
	First cycle, fully discharged state								10	
	25th cycle, fully discharged state								10	
<12kg Small batteries	First cycle, fully charged state	4						4		16
	25th cycle, fully charged state	4						4		
>12kg Large batteries	First cycle, fully charged state	2						2		8
	25th cycle, fully charged state	2						2		