





报告编号(Report No.): S-17120023

检验报告 TEST REPORT

NAME OF SAMPLE: Rechargeable Li-Polymer Battery pack

产品名称: 锂离子可充式电池组/锂电池

CLIENT: Sunwoda Electronic Co., Ltd. 委托单位: 欣旺达电子股份有限公司

CLASSIFICATION OF TEST: Commission test

检验类别: 委托测试





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Applicant information

Applicant information 申请资料					
Name of samples: 样品名称:	Rechargeable Li-Polymer Battery pack 锂离子可充式电池组/锂电池				
Type/ Model: 型号规格:	L17D2PF1 7.68V 3805mAh/29Wh(MIN) 3910mAh/30Wh(TYP)				
Lithium content:: 锂含量:					
Trade mark: 商标:					
Commission by: 委托单位:	Sunwoda Electronic Co., Ltd. 欣旺达电子股份有限公司				
Commissioner address: 委托单位地址:	Floor 1,A,B,D District of Floor 2 and Floor 3 to 9 of Comprehensive Building, No.2 Yihe Road, Shilong Community, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, P.R. China 中国广东省深圳市宝安区石岩街道石龙社区颐和路2号综合楼1楼、2楼A-B区、2楼D区3-9楼				
Factory: 生产厂:	Sunwoda Electronic Co., Ltd. Sixth Branch 欣旺达电子股份有限公司第六分公司				
Factory address: 生产厂地址:	Northeast of Intersection of Keyu Road and Tongguan Road, Gongming Street, Guangming New District, Shenzhen City, Guangdong Province, P.R. China 中国广东省深圳市光明新区公明街道科裕路与同观大道交汇处东北				
Appearance: 样品外观颜色:	Black 黑色				
Sample status: 样品状态:	Good 完好				
Package of goods: 样品外包装:	Carton 纸箱				
Quantity of sample: 样品数量:	41pcs				
Sample identification: 样品标识序号:	b1#~b16# c1#~c25#				
Receiving date: 接样日期 :	2017-12-04				
Completing date: 测试完成日期:	2017-12-19				

Conclusion/结论:

The submitted samples comply with the requirements of UNITED NATIONS Section 38.3 Of The Sixth Revised Edition Of The Recommendations On The Transport Of Dange Coods, Manual Of Test And Criteria(ST/SG/AC.10/11/Rev.6 Section 38.3)

样品符合联合国《关于危险货物运输的建议书试验和标准手册》第六修订

Seal/检验专用

Date of issue

Approved: Reviewed:

t准: 夏城 审核: 汤俊

测试:

Tested:

阳子



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深圳普瑞赛思检测技术有限公司

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Test Conclusion测试结论								
No.	Name of test		Test result	Conclusion	Remarks			
序号	测试项目名称		测试结果	本项结论	备注			
1	Altitude simulation 高度模拟		See Appendix 1	Р				
2	Thermal test 温度试验		See Appendix 2	Р				
3	Vibration 振动	The submitted samples comply with the	See Appendix 3	Р				
4	Shock 冲击	requirements of UNITED NATIONS Section 38.3 Of The Sixth Revised Edition Of The Recommendations On	See Appendix 4	Р				
5	External Short-circuit 外部短路	The Transport Of Dangerous Goods, Manual Of Test And Criteria(ST/SG/AC.10/11/ Rev.6 Section 38.3) 样品符合联合国《关于危险	See Appendix 5	Р				
6	Crush 挤压	货物运输的建议书 试验和标准手册》第六修订版第 38.3节的要求。	See Appendix 6	Р				
Ů	Impact 撞击		See Appendix 6	N/A				
7	Overcharge 过度充电		See Appendix 7	Р				
8	Forced discharge 强制放电		See Appendix 8	Р				



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Photos of samples and markings





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Photos of samples and markings

样品及标识照片

Cell (605490 3.84V 14.6Wh)







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			App	endix 1					
			附	表 1					
Test Items 测试项目	i Allitude simulation								
侧\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	高度模拟								
1.1	Test proced测试步骤	Test procedure 测试步骤							
	Test cells and batteries shall be stored at a pressure of 11.6kPa or less for at least six hours at ambient temperature (20±5℃). 试验电池芯和电池在环境温度(20±5℃)下,储存在小于等于11.6kPa的压力下至少六小时。								
1.2	Sample sta 样品状态 b1#~b4# #		n fully charged	states:					
		在第一个循环		siaics,					
			s ending in fully f环完全充电;	/ charged state	es;				
1.3	Result 测试结果								
Sample No. 样品编号	Before Te	est测试前	After Tes	st测试后	(M<1a: 0.5% 剩余 [‡]		Test result 测试结果		
	Mass 样品质量 (g)	Voltage 开路电压 (V)	Mass 样品质量(g)	Voltage 开路电压 (V)	1g≤M≤75g: 0.2% M>75g: 0.1%)	(≥90%)			
b1#	149.92	8.375	149.92	8.371	0.000	99.95	0		
b2#	150.19	8.404	150.19	8.401	0.000	99.96	0		
b3#	150.40	8.419	150.39	8.415	0.007	99.95	0		
b4#	150.28	8.408	150.28	8.404	0.000	99.95	0		
b5#	150.54	8.388	150.54	8.384	0.000	99.95	0		
b6#	150.13	8.381	150.13	8.378	0.000	99.96	0		
b7#	150.21	8.376	150.21	8.372	0.000	99.95	0		
b8#	150.13	8.409	150.13	8.406	0.000	99.96	0		

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



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Appendix 2								
附表 2								
Test Items 测试项目	Thermal test 温度测试							
1.1	Test proced 测试步骤	lure						
	Test cells and batteries are to be stored for at least six hours at a test temperature equal to $72\pm2^{\circ}\mathbb{C}$, followed by storage for at least six hours at a test temperature equal to $-40\pm2^{\circ}\mathbb{C}$, The maximum time interval between test temperature extremes in 30 minutes, This procedure is to be repeated until 10 total cycles are complete, after which all test cells and batteries are to be stored for 24 hours at ambient temperature ($20\pm5^{\circ}\mathbb{C}$). 将电芯和电池在温度为 $72\pm2^{\circ}\mathbb{C}$ 的条件下贮存不少于6个小时,然后,在温度- $40\pm2^{\circ}\mathbb{C}$ 条件下贮存不少于6个小时,两个温度间的间隔最长为 30 min,重复操作上述步骤直到 10 次,然后,将其在环境温度为 $20\pm5^{\circ}\mathbb{C}$ 的条件下放置 24 个小时。							
1.2		tus at first cycle in 在第一个循环		ed states;				
	b5# ~ b8#, a		s ending in f	ully charged	states;			
1.3	Result 测试结果							
Sample No. 样品编号	Before Te		After Te	st测试后	Mass loss 质量损失	Residual OCV	Test result	
11 11 11 11	Mass 样品质量 (g)	Voltage 开路电压 (V)	Mass 样品质量 (g)	Voltage 开路电压 (V)	(M<1g: 0.5% 1g≤M≤75g: 0.2% M>75g: 0.1%)	剩余电压 (≥90%)	测试结果	
b1#	149.92	8.371	149.90	8.243	0.013	98.47	0	
b2#	150.19	8.401	150.18	8.264	0.007	98.37	0	
b3#	150.39	8.415	150.38	8.275	0.007	98.34	0	
b4#	150.28	8.404	150.27	8.267	0.007	98.37	0	
b5#	150.54	8.384	150.53	8.263	0.007	98.56	0	
b6#	150.13	8.378	150.12	8.231	0.007	98.25	0	
b7#	150.21	8.372	150.20	8.235	0.007	98.36	0	
b8#	150.13	8.406	150.12	8.241	0.007	98.04	0	

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



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Appendix 3

		Appendix 3					
ı		附表 3					
Test Items 测试项目	Vibration 振动						
1.1	Test procedure 测试步骤						
	cells in such a manner as wave form with a logarith minutes, This cycle shall perpendicular mounting p 将电芯和电池牢固地安装	te在振动台的台面上,然后。 7Hz为一个循环,一个循环持	oration, The vibration nd 200 Hz and back total of 3 hours for e 开始振动。振动以』	n shall be a sind to 7 Hz travers each of three mi E弦波形式,以	usoidal sed in 15 utually 7Hz增加至		
1.2	Sample status 样品状态						
1	b1#~b4#, at first cycle in fully charged states; b1#~b4#, 在第一个循环完全充电;						
l	b5#~b8#, after 50 cycle b5#~b8#, 在第五十个循	s ending in fully charged sta 环完全充电;	ites;				
1.3	Result 测试结果						
Sample No.			Mass loss	Residual	Test		

	例以归未						
Sample No. 样品编号	Before Test测试前		After Test测试后		Mass loss 质量损失 (M<1g: 0.5%	Residual OCV 剩余电压	Test result 测试结果
	Mass 样品质量 (g)	Voltage 开路电压 (V)	Mass 样品质量 (g)	Voltage 开路电压 (V)	1g≤M≤75g: 0.2% M>75g: 0.1%)	(≥90%)	
b1#	149.90	8.243	149.90	8.240	0.000	99.96	0
b2#	150.18	8.264	150.18	8.262	0.000	99.98	0
b3#	150.38	8.275	150.37	8.272	0.007	99.96	0
b4#	150.27	8.267	150.27	8.265	0.000	99.98	0
b5#	150.53	8.263	150.53	8.260	0.000	99.96	0
b6#	150.12	8.231	150.12	8.229	0.000	99.98	0
b7#	150.20	8.235	150.20	8.232	0.000	99.96	0
b8#	150.12	8.241	150.12	8.238	0.000	99.96	0

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



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Appendix 4							
			附是	表 4			
Test Items 测试项目	Shock 冲击						
1.1	Test procedure 测试步骤	2					
	Test cells and batteries shall be secured to the testing machine, and each cell shall be subjected to a half-sine shock of peak acceleration of 150gn and pulse duration of 6 milliseconds. Large cells may be subjected to a half-sine shock of peak acceleration of 50gn and pulse duration of 11 milliseconds. Small batteries shall be subjected to a half-sine shock of peak acceleration of 150gn (or Acceleration(gn)= √ (max), which is smaller) and pulse duration of 6 milliseconds, large batteries shall be subjected to a half-sine of peak acceleration of 50gn (or Acceleration(gn)= √ (max), which is smaller) and pulse duration of 11 milliseconds. Each cell or battery shall be subjected to three shocks in the positive direction followed by three shocks in the negative direction of three mutually perpendicular mounting positions of the cell or battery for a total of 18 shocks 以稳固的托架固定住每个电芯和电池样品的全部配件表面。对每个电芯以峰值为150gn的半正弦的加速度撞击,脉冲持续6毫秒,大型电芯须经受最大加速度50gn和脉冲持续时间11毫秒的半正弦波冲击。对每个电池以峰值为150gn(或与√(max)中的较小值)的半正弦的加速度撞击,脉冲持续6毫秒,大型电池组须经受最大加速度50gn(或与√(max)中的较小值)和脉冲持续时间11毫秒的半正弦波冲击。每个电池或绝受最大加速度50gn(或与√(max)中的较小值)和脉冲持续时间11毫秒的半正弦波冲击。每个电池或电池组须在三个互相垂直的电池安装方位的正方向经受三次冲击,接着在反方向经受三次冲击,总共经受18次冲击。						
1.2	Sample state 样品状态						
	b1# ~ b4#, 7	t first cycle in fr 主第一个循环完 fter 50 cycles e	全充电; ending in fully		es;		
1.3	D5# ~ D8#, 在 Result 测试结果	主第五十个循环	·元至允电; 				
Sample No. 样品编号	Before To	est测试前	After Tes	<u>.</u>	Mass loss 质量损失 (M<1g: 0.5%	Residual OCV 剩余电压 (≥90%)	Test result 测试结果
	Mass 样品质量 (g)	Voltage 开路电压 (V)	Mass 样品质量 (g)	Voltage 开路电压 (V)	1g≤M≤75g: 0.2% M>75g: 0.1%)	(23070)	
b1#	149.90	8.240	149.90	8.238	0.000	99.98	0
b2#	150.18	8.262	150.18	8.260	0.000	99.98	0
b3#	150.37	8.272	150.37	8.270	0.000	99.98	0
b4#	150.27	8.265	150.27	8.264	0.000	99.99	0
b5#	150.53	8.260	150.53	8.260	0.000	100.00	0
b6#	150.12	8.229	150.12	8.228	0.000	99.99	0
b7#	150.20	8.232	150.20	8.230	0.000	99.98	0
b8#	150.12	8.238	150.12	8.236	0.000	99.98	0
Note: L-Leak	age, V -Venting	g, D -Disassem	ıbly, R -Ruptur	e, F -Fire, O -	No leakage, no vent	ing, no disas	sembly, no

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



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		Appendix 5						
-	<u> </u>							
Test Items 测试项目	上xternal short 外部短路	External short circuit 外部短路						
1.1	Test procedu 测试步骤	Test procedure						
	temperature recondition with condition is condition is condition is confident to be concluded 保持试验环境流下,将其正负权	tery to be tested shall be temperature stabilized eaches 57±4℃ and then the cell or battery shall a total external resistance of less than 0.1 ohm ntinued for at least one hour after the cell or battery must be observed to 57±4℃, the cell or battery must be observed to ded. 温度稳定在57±4℃,以使电芯或电池样品外表温及用小于0.1欧姆的线路短接,待电芯或电池的外电芯或电池必须进一步观察6个小时才能下结论。	l be subjected to a sho at 57±4℃, This short ttery external case ten for a further six hour fo 温度达到57±4℃,然后 表温度恢复到57±4℃	ort circuit circuit nperature or the test ,在此温质				
1.2	样品状态 b1#~b4#, at	Sample status 样品状态 b1#~b4#, at first cycle in fully charged states;						
	b1# ~ b4#, 在第一个循环完全充电; b5# ~ b8#, after 50 cycles ending in fully charged states; b5# ~ b8#, 在第五十个循环完全充电;							
1.3	Result 测试结果							
	nple No. 品编号	Max. External Temperature 样品表面最高温度 (℃)	Test result 测试结果	Remar 备注				
	b1#	57.8	0					
I	b2#	57.5	0					
ļ	b3#	57.9	0					
1	b4#	58.1	0					
	b5#	57.6	0					
	b6#	57.4	0					
	b7#	57.6	0					
b8# 57.7 O								

Over temperature

注: D- 解体; R- 破裂; F- 起火; OT- 超过170℃; O- 无解体、无破裂、无起火、不超过170℃



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	Appendix 6
Toot Itomo	附表 6
Test Items	Crush 挤压/Impact 撞击
测试项目	
1.1	Test procedure
	测试步骤
	Crush 挤压
	A cell or component cell is to be crushed between two flat surfaces. The crushing is
	to be gradual with a speed of approximately 1.5 cm/s at the first point of contact. The
	crushing is to be continued until the first of the three options below is reached.
	(a) The applied force reaches 13kN±0.78kN;
	(b) The voltage of the cell drops by at least 100 mV; or(c) The cell is deformed by 50% or more of its original thickness.
	Once the maximum pressure has been obtained, the voltage drops by 100mV or
	more, or the cell is deformed by at least 50% of its original thickness, the pressure
	shall be released.
	电池芯或组成电池芯在两个平面间挤压。挤压在第一个接触点以约1.5cm/s 的速度慢慢
	进行,直到下面三个选项之一达到为止:
	(a)作用力达到 13kN±0.78kN;
	(b)电池芯电压降至少达到100mV;
	(c)电池厚度和最初比较变形至少50%。
	一旦达到最大压力,电压降超过100 mV或者电池芯变形超过50%,压力应该解除。
	Impact 撞击
	(applicable to cylindrical cells not less than 18mm in diameter) The sample cell or component cell is to be placed on a flat smooth surface. A 15.8
	mm ± 0.1 mm diameter, at least 6 cm long, or the longest dimension of the cell,
	whichever is greater, Type 316 stainless steel bar is to be placed across the centre
	of the sample. A 9.1 kg \pm 0.1 kg mass is to be dropped from a height of 61 \pm 2.5 cm
	at the intersection of the bar and sample in a controlled manner using a near
	Frictionless, vertical sliding track or channel with minimal drag on the falling mass.
	The vertical track or channel used to guide the falling mass shall be oriented 90
	degrees from the horizontal supporting surface.
	The test sample is to be impacted with its longitudinal axis parallel to the flat surface
	and perpendicular to the longitudinal axis of the 15.8 mm \pm 0.1 mm diameter curved
	surface lying across the centre of the test sample. Each sample is to be subjected to
	only a single impact.



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	Appendix	6				
Test Items	附表 6					
测试项目	Crush 挤压/Impact 撞击					
1X3 W(-X, L)	Cells and component cells meet thi	s requirement if their extern	ial temperature does			
	not exceed 170°C and there is no c	•	·			
	six hours after this test.	induction and the line duri	ng are teet and main.			
	(适用于直径不小于18毫米的圆柱形	电池)将电池或元件电池样	品平放在一个平面上,			
	其纵轴平行于测试台面年,将一直径	为15.8 mm ± 0.1 mm的316	型不锈钢棒横放在电池			
	中心位置。然后,将一质量为 9.1 kg	g ± 0.1 kg的物体从61±2.5 cl	m的高度落向样品。样			
	品在进行试验时,其外表温度应不起	超过170℃。且试验结束后6~	个小时之内,样品应无			
	解体、无起火现象发生。					
1.2	Sample status					
	样品状态					
	c1#~c5#, at first cycle at 50% of the design rated capacity; c1#~c5#, 在第一个循环50%的额定容量;					
1.3	Result					
	测试结果					
Sample No.	Max. External Temperature	Test result	Remark			
样品编号	样品表面最高温度	测试结果	备注			
	(℃)					
c1#	24.0	o				
c2#	23.9	0				
c3#	24.4	0				
c4#	24.2	0				
c5#	23.8	0				

Note: ${\bf D}$ -Disassembly, ${\bf R}$ -Rupture, ${\bf F}$ -Fire, ${\bf OT}$ -Over Temperature, ${\bf O}$ - no disassembly, no fire, no Over temperature

注: D- 解体; R- 破裂; F - 起火; OT- 超过170℃; O-无解体、无起火、不超过170℃



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	Appendix 附表 7	1	
Test Items 测试项目	Overcharge 过度充电		
1.1	Test procedure 测试步骤		
	When the manufacturer's recommended voltage of the test shall be the lesser of 22V, whichever is less. When the manu 18V, the charging voltage of the test shall current is 2 times of the maximum charg 如果厂家推荐的充电电压不超过18V,本电压或者是22V,取其中较小者。如果厂的厂家标定最大充电电压。充电电流为厂	two times the maximum chafacturer's recommended charbe 1.2 times maximum charging current recommended b测试的最小充电电压应该是该	rige voltage of the or rge voltage is more the rge voltage. The charge by the manufacturer。 两倍的厂家标定最大 充电电压应该为 1.
1.2	Sample status 样品状态		
	1604.6404 左答,众循环与众方由		
1.3	b9# ~ b12#, 在第一个循环完全充电; b13# ~ b16#, after 50 cycles ending in fi b13# ~ b16#, 在第五十个循环完全充电; Result		
1.3 Sample No. 样品编号	b13# ~ b16#, after 50 cycles ending in fi b13# ~ b16#, 在第五十个循环完全充电;		Remark 备注
Sample No.	b13#~b16#, after 50 cycles ending in fob13#~b16#, 在第五十个循环完全充电; Result 测试结果 Voltage Before test(V)	Test result	
Sample No. 样品编号	b13#~b16#, after 50 cycles ending in fob13#~b16#, 在第五十个循环完全充电; Result 测试结果 Voltage Before test(V) 测试前开路电压(V)	Test result 测试结果	
Sample No. 样品编号 b9#	b13#~b16#, after 50 cycles ending in fob13#~b16#, 在第五十个循环完全充电; Result 测试结果 Voltage Before test(V) 测试前开路电压(V) 8.378	Test result 测试结果 O	
Sample No. 样品编号 b9# b10#	b13#~b16#, after 50 cycles ending in for b13#~b16#, 在第五十个循环完全充电; Result 测试结果 Voltage Before test(V) 测试前开路电压(V) 8.378 8.395	Test result 测试结果 O	
Sample No. 样品编号 b9# b10# b11#	b13#~b16#, after 50 cycles ending in fob13#~b16#, 在第五十个循环完全充电; Result 测试结果 Voltage Before test(V) 测试前开路电压(V) 8.378 8.395 8.415	Test result 测试结果 O O	
Sample No. 样品编号 b9# b10# b11# b12#	b13#~b16#, after 50 cycles ending in fob13#~b16#, 在第五十个循环完全充电; Result 测试结果 Voltage Before test(V) 测试前开路电压(V) 8.378 8.395 8.415 8.387	Test result 测试结果 O O	
Sample No. 样品编号 b9# b10# b11# b12# b13#	b13#~b16#, after 50 cycles ending in for b13#~b16#, 在第五十个循环完全充电; Result 测试结果 Voltage Before test(V) 测试前开路电压(V) 8.378 8.395 8.415 8.387 8.380	Test result 测试结果 O O O	

注: D- 解体; F - 起火; O-无解体、无起火。



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			ndix 8 表 8	-		
Test Items 测试项目	Forced discharge 强制放电	• • • •	,			
1.1	Test procedure 测试步骤					
	Each cell shall be forced discharged at ambient temperature by connecting it in series with a 12V D. C, power supply at an initial current equal to the maximum discharge current specified the manufacturer The specified discharge current is to be obtained by connecting a resistive load of the appropriate size and rating in series with the test cell, Each cell shall be forced discharged for a time interval(in hours) equal to its rated capacity divided by the initial test current(in ampere). 在20±5℃的环境温度下,将单个电芯连接在12V的直流电源上进行强制放电,此直流电源提供每个电芯初始电流为制造厂指定的最大放电电流,放电时间为额定容量除以初始电流。					
1.2	Sample status 样品状态					
	c6#~c15#, 在第	一个循环完全的				
	c16#~c25#, afte c16#~c25#, 在身		ding in fully dischargo 全放电;	ed states;		
1.3	测试结果					
Sample No. 样品编号	Voltage Before test 测试前开路电压 (V)	Test result 测试结果	Sample No. 样品编号	Voltage Before test 测试前开路电压 (V)	Test result 测试结果	
c6#	3.416	0	c16#	3.411	0	
c7#	3.421	0	c17#	3.437	0	
c8#	3.426	0	c18#	3.416	0	
c9#	3.416	0	c19#	3.420	0	
c10#	3.414	0	c20#	3.430	0	
c11#	3.429	0	c21#	3.413	0	
c12#	3.413	0	c22#	3.416	0	
c13#	3.413	0	c23#	3.408	0	
c14#	3.433	0	c24#	3.421	0	
c15#	3.415	0	c25#	3.431	0	

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

注: D- 解体; F - 起火; O-无解体、无起火。



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注意事项

Attention

1. 本报告无检测单位"检验专用章"无效。

The test report is invalid without the official stamp of the lab.

2. 未经本实验室书面同意,不得部分地复制本报告。
Nobody is allowed to photocopy or partly photocopy this report without written

permission of the lab.

3. 本报告无批准人、审核人签名无效。

The test report is invalid without the signature of ratifier, reviewer.

4. 本报告涂改无效。

The test report is invalid if altered.

- 5. 如果报告中部分项目相对于测试依据有偏离的,将在当前测试项目中予以说明。 If any test method is deviation from the designated test method, must be commented in the test data sheet.
- 6. 对检测报告若有异议,应于收到报告之日起十五天内向检测单位提出。 Objections to the test report must be submitted to lab within 15 days.
- 7. 本报告仅对送检样品负责。

The test report is valid for the tested sample only.

8. 本检测结果中"N/A"表示"不适用","P"表示"通过","F"表示"不通过"。 As for the test result "N/A" means "Not Applicable", "P" means "Pass" and "F" means "Fail".

深圳普瑞赛思检测技术有限公司

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报告结束 ***END***