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Add: Tower B, No.66 Huacheng Avenue, Zhujiang Xincheng, Tianhe District, Guangzhou, China

Website: www.iqtc.cn Postcode: 510623 01052100002847-1(E)

2021-06-20 Date:

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UN38.3 报告 **UN38.3 Test Report**

样品名称:

Sample Name: **Energy Storage Module**

委托单位: 华为技术有限公司

Applicant: Huawei Technologies Co., Ltd



MDADY5X4OQ



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检测证书 TEST REPORT

	I LOTINET		
样品名称 Sample Name	储能模组 Energy Storage Module	JANGLHO	G. S. C.
型号 Model	LUNA2000-5-E0	G. Alle	- OCY CELTY CHAROLO
委托单位 Applicant	华为技术有限公司 Huawei Technologies Co., Ltd		
委托单位地址 Applicant Address	广东省深圳市龙岗区坂田华为基地 Huawei Base, Bantian Longgang Dist	rict Shenzhen, P.R	. China
生产单位 Manufacture	比亚迪股份有限公司 BYD Company Limited.	, USTOMS	THOU CUE
生产单位地址 Manufacture Address	深圳市大鹏新区葵涌街道延安路 1-Yan An Road No.1, Kuichong, DaPen		19, P.R. China
样品外观与性状 Appearance & Odor	白色金属外壳 White metal shell	A.	A CEMIE
测试方法和判定标准 Test method and criterion	联合国《关于危险货物运输的建议·UNITED NATIONS "Recommendation Manual of Tests and Criteria ST/SG/A	ons on the TRAN	SPORT OF DANGEROUS GOODS'
接样时间 Accepted date	2021-05-25	测试日期 Test date	2021-05-25~2021-06-20
测试项目 Test items	高度模拟、温度试验、振动、冲击Altitude simulation, Thermal test, Vibrorced discharge.		
结论 Conclusion	经测试,该样品符合联合国《关ST/SG/AC.10/11/Rev.7, 38.3 标准要证The sample has passed the test iter TRANSPORT OF DANGEROU ST/SG/AC.10/11/Rev.7, 38.3.	求。 ms of UNITED 1	
备注 Remark	1. 随附 UN38.3 试验概要(编号: (Attached with UN38.3 test summar		

Approver: 74 6 36

Appraiser:

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电池组信息:

The batteries information:

电池类型 Battery type	锂离子电池 Lithium ion batteries	标称电压 Nominal Voltage	385V
额定容量 Rated Capacity	102Ah	总能量 Total Energy	5kWh
充电限制电压 Limited Charge Voltage	435V	标准充电电流 Standard Charge Current	6.5A
最大充电电流 Maximum Charge Current	10A	充电截止电流 Charge Cut-off Current	2A
标准放电电流 Standard discharge Current	6.5A	最大放电电流 Maximum Discharge Current	6.5A
放电截止电压 Discharge Cut-off Voltage	350V	尺寸 Overall Dimensions (W×D×H)	670 ± 1mm(W)*360 ± 0.6mm(D)150 ± 0.5mm(H)
电芯数量 Cell Quantity	16 PCS	重量 Mass	50kg
电芯容量 Cell Capacity	102Ah	电芯型号 Cell Model	LF100L
电芯生产单位 Manufacturer of cell	ghr. ci. the thind loc	惠州亿纬锂能股份有限公EVE Energy Co., Ltd.	THE LOWER WHEN

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序号 No.	测试项目名称 Name of test	Stand requirement	或标准条款号 or the clause number of tandard	测试结果 Test result	本项结论 Test conclusion	备注 Remark
1	高度模拟 Altitude simulation	和标准手册》UN	货物运输的建议书 试验 N Manual of Tests and C.10/11/Rev.7, 38.3 试验	l NM 表 I	合格 Passed	/_0
2	温度试验 Thermal test	和标准手册》UN	货物运输的建议书 试验 N Manual of Tests and C.10/11/Rev.7, 38.3 试验	I ^{児門衣 2}	合格 Passed	/
3	振动 Vibration	和标准手册》UN	货物运输的建议书 试验 N Manual of Tests and C.10/11/Rev.7, 38.3 试验	I N的表 3	合格 Passed	CLIO,
4	冲击 Shock	和标准手册》UN	货物运输的建议书 试验 N Manual of Tests and C.10/11/Rev.7, 38.3 试验	l ^{児附表 4}	合格 Passed	OS (FILM)
5	外部短路 External short circuit	和标准手册》UI	货物运输的建议书 试验 N Manual of Tests and C.10/11/Rev.7, 38.3 试验	l ^{见附表 5}	合格 Passed	/ die
6	挤压 Crush	和标准手册》UI	货物运输的建议书 试验 N Manual of Tests and 1.10/11/Rev.7, 38.3 试验	I ^{児門衣り}	合格 Passed	/
7	过度充电 Overcharge	和标准手册》UN	货物运输的建议书 试验 N Manual of Tests and C.10/11/Rev.7, 38.3 试验	1	合格 Passed	8 1
8	强制放电 Forced discharge	和标准手册》UN	货物运输的建议书 试验 N Manual of Tests and C.10/11/Rev.7, 38.3 试验	1	合格 Passed	STREET, THE
Test e	测试环境 environment condition		下境温度:20℃-25℃; ^耳 temperature: 20℃-25℃,			
~C	of CELL SHIPOLO	测试项目 Test items	EDISTR. 15	ONE /	brog.	CUANCIA
Subco	分包测试情况 ontracted test condition	分包实验室 Subcontracted	名称 Name	1 WATER	邮编 Post code	/
		Laboratory	地址 Address	/	电话 Tel	13

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序号 No.		表 1 endix 1		则试项目名称 Name of test		高度模拟 Altitude simula	
标准要求 Requirement of Standard 样品状态 Sample status	池组应无重量在试验后的开组除外)。 Test cells and temperature 20 venting, no disbattery after te requirement re b1#~b2#: 第-b1#~b2#: 第:b3#~b4#: 第:	损失、无渗漏、路电压不少于。 batteries shall be 0±5℃. Cells and cassembly, no rup sting is not less to	无排气、无 stored at a pro- batteries meet pture and no fi than 90% of its is not applical en be 地; charged states; 全充电的电别	解体、无破裂和 试验前电压的 essure of 11.6kF this requirement re and if the ope is voltage immediate to test cells a	和无燃烧,差90%(完全放 Pa or less for nt if there is r en circuit vol liately prior t	字放至少 6h。试验 并且每个试验电光 效电状态的试验电 at least six hours a no mass loss, no lea tage of each test c o this procedure." at fully discharge	也或电池组 已池或电池 at ambient eakage, no ell or The
	05π~04π. an	ci 25 cycles chu	ing in runy ch	arged states.			
举 兄维号	150	Before Before	- 1/2	f After	质量损失	剩余电压	测计社里
样品编号 Sample No.	150	1100	- 1/2	7.0	质量损失 Mass loss (%)	剩余电压 Residual OCV(%)	测试结果 Test resul
Y	测试前电池质量	Before 开路电压	测试)	后 After 开路电压	Mass loss	Residual	
Sample No.	测试前 电池质量 m _l (kg)	Before 开路电压 v1(v)	测试) 电池质量 m ₂ (kg)	后 After 开路电压 v ₂ (v)	Mass loss (%)	Residual OCV(%)	Test resul
Sample No.	测试前 电池质量 m _l (kg) 50.25	Before 开路电压 v1(v) 396.1	测试) 电池质量 m ₂ (kg) 50.25	后 After 开路电压 v ₂ (v) 396.1	Mass loss (%) 0.00	Residual OCV(%)	Test resul

注: L-泄漏; V-排气; D-解体; R-破裂; F-起火; O-无泄漏、无排气、 无解体、无破裂、无起火。 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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序号 No.		表 2 ndix 2		试项目名称 ame of test	37	温度试验 Thermal to	
标准要求 Requirement of Standard	下存放至少 12 验电池或电池 无排气、无解 其在进行这一 Test large cells 72±2℃, follow maximum time repeated 10 tim temperature (20 no venting, no obattery after tes	或电池组在试验h。两个极端试组在环境温度 2体、无破裂和无试验前电压的 9 and batteries are ed by storage for interval between es, after which a 0±5℃). Cells and disassembly, no ting is not less thating to voltage	验温度之间的 20±5℃下存放 50%(完全放 e to be stored for at least 12 hon test temperated that test cells and d batteries meet rupture and not han 90% of its	b最大时间间隔 24h。试验电汽 每个试验电池或 电状态的试验 for at least 12 hours at a test ten ure extremes is d batteries are to this requirement of fire and if the voltage immed	B为 30min。 重 地或电池组应 战电池组在试 电池或电池组 purs at a test to perature equa 30 minutes. To be stored for ent if there is open circuit voi iately prior to	重复10次,早无重量损失、 无重量损失、 验后的开路电 1除外)。 emperature equal to -40±2℃. This procedure r 24 hours at a no mass loss, a lotage of each this procedure	再将所有试 无渗漏、 出压不少于 ual to The is to be mbient no leakage, test cell or e. The
样品状态 Sample status	b1#~b2#: firs b3#~b4#: 第二	-个循环完全充 t cycle in fully c -十五个循环完 er 25 cycles endi	harged states; 全充电的电池		en eg	Klift Chil	OLOGYCELMIN
兴口炉 已	测试前	Before	测试局	ấ After	质量损失	剩余电压	河北外田
样品编号 Sample No.	电池质量 m _I (kg)	开路电压 V ₁ (v)	电池质量 m ₂ (kg)	开路电压 V2(V)	Mass loss (%)	Residual OCV(%)	测试结果 Test result
b1#	50.25	396.1	50.25	396.0	0.00	99.97	O
1/2		010	ć.		0		
b2#	50.20	396.0	50.20	396.0	0.00	100.00	0
b2# b3#	, age T	18012	50.20	396.0	0.00	100.00	

注: L-泄漏; V-排气; D-解体; R-破裂; F-起火; O-无泄漏、无排气、 无解体、无破裂、无起火。 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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序号 No.		表 3 endix 3		试项目名称 ame of test)°	振动 Vibratio	on
标准要求 Requirement of Standard	1gn 的最大加速速度达到 2gn(的电池或电池, 损失、无渗漏电压不少于其 The large Cells distorting the cosinusoidal wave until 18Hz is re frequency incre of 2gn is then m times for a total of the direction requirement if t if the open circu	速度,直到 18Hz。 频率约为 25Hz 组安装方向的每 、无排气、无解 在进行这一试验 and batteries ar ells in such a ma eform with a log cached. The amp eased until a pea naintained until l of 3 hours for of s of vibration me there is no mass uit voltage of ea	表或通过夹具安。然后将振幅保)、将最大加速度 等个方向重复进 等体、无破裂和 验前电压的 90% er firmly secured anner as to faithfing garithmic sweep blitude is then man k acceleration of the frequency is each of three mu- ust be perpendiculoss, no leakage ach test cell or ba	持在 0.8mm(总保持在 2g _n 直到行 12 次,一共无燃烧,并且每(完全放电状to the platformully transmit the from 7Hz to a printained at 0.8n f 2g _n occurs (appincreased to 200 tually perpendicular to the termin, no venting, no ttery after testin	編移 1.6mr 則頻率增加到 振动 3h。该 上个试验电池 态的the vibration. eak accelera nm (1.6mm proximately DHz. This cy cular mounti inal face. Ce disassembly g is not less	m),并增加频率 到 200Hz。对 到 式验电池或电注 地或电池组在设 池或电池组解 tion machine w The vibration so tion of 1g _n is n total excursion 25Hz). A peak cle shall be rep ng positions of ells and batteries of, no rupture ar than 90% of it	直到最大加 三个互相垂直 地组应无重量 式验后的开路 对thout hall be a naintained) and the acceleration peated 12 I the cell. One is meet this ad no fire and s voltage
		ior to this proce fully discharged		ement relating to	o voltage is i	not applicable	to test cells
样品状态 Sample status	and batteries at b1#~b2#: 第一 b1#~b2#: firs b3#~b4#: 第二	fully discharged 一个循环完全充 t cycle in fully o 二十五个循环完	d states. 电的电池;	54 CENTRE	o voltage is i	not applicable	to test cells
Sample status	and batteries at b1#~b2#: 第一 b1#~b2#: firs b3#~b4#: 第二	fully discharged 一个循环完全充 it cycle in fully of 二十五个循环完 er 25 cycles end	电的电池; charged states; 全充电的电池。	ged states.	OHNOLOGY ONE	DISTRICT THE H	CUSTOME DE
Sample	and batteries at b1#~b2#: 第一 b1#~b2#: firs b3#~b4#: 第二 b3#~b4#: afte	fully discharged 一个循环完全充 it cycle in fully of 二十五个循环完 er 25 cycles end	电的电池; charged states; 全充电的电池。	ged states.	质量损失 Mass loss (%)	剩余电压 Residual OCV(%)	测试结果 Test result
Sample status 样品编号	and batteries at b1#~b2#: 第一 b1#~b2#: firs b3#~b4#: 第二 b3#~b4#: afte	fully discharged 一个循环完全充 it cycle in fully of the company of the cycles end Before 开路电压	电的电池; charged states; 全充电的电池。 ing in fully charg 测试后 电池质量	ged states. After 开路电压	质量损失 Mass loss	剩余电压 Residual	测试结果
Sample status 样品编号 Sample No.	and batteries at b1#~b2#: 第一 b1#~b2#: 第二 b3#~b4#: 第二 b3#~b4#: afte 测试前 电池质量 m1(kg)	fully discharged 一个循环完全充 t cycle in fully c 二十五个循环完 er 25 cycles end Before	电的电池; charged states; 全充电的电池。 ing in fully charge 测试后 电池质量 m ₂ (kg)	ged states. After 开路电压 V2(v)	质量损失 Mass loss (%)	剩余电压 Residual OCV(%)	测试结果 Test result
Sample status 样品编号 Sample No.	and batteries at b1#~b2#: 第一 b1#~b2#: firs b3#~b4#: 第二 b3#~b4#: afte 测试前 电池质量 m1(kg)	fully discharged 一个循环完全充 t cycle in fully c 二十五个循环完 er 25 cycles end Before 开路电压 v1(v) 396.0	电的电池; charged states; 全充电的电池。 ing in fully charged 测试后 电池质量 m ₂ (kg) 50.25	ged states. After 开路电压 v ₂ (v) 396.0	质量损失 Mass loss (%)	剩余电压 Residual OCV(%)	测试结果 Test result O

注: L-泄漏; V-排气; D-解体; R-破裂; F-起火; O-无泄漏、无排气、 无解体、无破裂、无起火。 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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at o	140	A		012	20	.00	1 Pull
序号 No.		表 4 endix 4		则试项目名称 Name of test	CAL	冲击 Shock	67
标准要求 Requirement of Standard	gn= √(30000 / n 其正负极各冲- 解体、无破裂和 验前电压的 90 Test cells and b support all mou shock of peak a milliseconds. E by three shocks or battery for a leakage, no ven cell or battery a	mass) 中較小者 击 3 次,共冲 中无燃烧,并且 % (完全放电 atteries shall be nting surfaces of cceleration of 5 ach cell or batte in the negative total of 18 shoot ting, no disasse fter testing is nating to voltage	的正弦波冲击 击 18次。各试 上每个试验电池 状态的试验电 e secured to the of each test batt 50gn or accelera ery shall be sub edirection of the eks. Cells and b embly, no ruptu ot less than 90% is not applicable.	,脉冲持续时 验电池或电池 或电池组在设 池或电池组除 testing machin tery. Each Large tion $(g_n) = \sqrt{30}$ jected to three ree mutually po atteries meet the re and no fire a 6 of its voltage	ne by means of a ge batteries shall 2000 / mass) and shocks in the poterpendicular mo- nis requirement is	个相互垂直的失、无渗漏、压不少于其在 rigid mount w be subjected t ad pulse durationsitive direction unting position of there is no m ircuit voltage of ior to this production	轴向分别对无排气、无进行这一试 which will o a half-sine on of 11 in followed is of the cell is ass loss, no of each test redure. The
样品状态 Sample status	b1#~b2#: 第一 b1#~b2#: firs b3#~b4#: 第二 b3#~b4#: afte	t cycle in fully 二十五个循环完	charged states;		ECHIOLOGY CO.	TRICT TECHNO	OME DETR
样品编号	测试前	Before	测试局	f After	质量损失	剩余电压	测试结果
Sample No.	电池质量 m _l (kg)	开路电压 V _I (v)	电池质量 m ₂ (kg)	开路电压 V2(V)	Mass loss (%)	Residual OCV(%)	Test result
b1#	50.25	396.0	50.25	396.0	0.00	100.00	0
b2#	50.20	396.0	50.20	396.0	0.00	100.00	O
b3#	50.07	396.0	50.07	396.0	0.00	100.00	o O
b4#	50.11	396.0	50.11	396.0	0.00	100.00	0

注: L-泄漏; V-排气; D-解体; R-破裂; F-起火; O-无泄漏、无排气、 无解体、无破裂、无起火。 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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序号 No.	附表 5 Appendix 5	测试项目名称 Name of test	外部短路 External short circuit
标准要求 Requirement o Standard	待试验电池或电池组的外壳温度小于 0.1Ω 的短路条件,当电池或再观察电池或电池组 6h 才结束设6h 内应无解体、无破裂和无燃烧The cell or battery to be tested shall freaches 57±4℃ and then the cell or external resistance of less than 0.1 cleast one hour after the cell or battery must be observed for a furth this requirement if their external terrupture and no fire within six hours	成电池组外壳温度回到 57±4℃点式验。电池或电池组的外壳温度点。 I be temperature stabilized so that the properties of the properties of the subjected to a subject of the short circuit the external case temperature has the six hours for the test to be comperature does not exceed 170℃	后继续至少 1h,然后短路断开, 应不超过 170℃,并且试验后 t its external case temperature hort circuit condition with a total condition is continued for at returned to 57±4℃. The cell or acluded. Cells and batteries meet
)		<u> </u>	ČV.
样品状态 Sample status	b1#~b2#: 第一个循环完全充电的 b1#~b2#: first cycle in fully charg b3#~b4#: 第二十五个循环完全充 b3#~b4#: after 25 cycles ending i	ged states; 它电的电池。	
C-0-1	b1#~b2#: first cycle in fully charg b3#~b4#: 第二十五个循环完全充	ged states; 它电的电池。 in fully charged states. 测试结果	ト 会社 Remark
Sample status 样品编号	b1#~b2#: first cycle in fully charg b3#~b4#: 第二十五个循环完全充 b3#~b4#: after 25 cycles ending i 样品表面最高温度	ged states; 它电的电池。 in fully charged states. 测试结果	ト 会社 Remark
Kample status 样品编号 Sample No.	b1#~b2#: first cycle in fully charg b3#~b4#: 第二十五个循环完全充 b3#~b4#: after 25 cycles ending in 样品表面最高温度 Max External Temperature(ged states; 它电的电池。 in fully charged states. (°C) 测试结果 Test resul	A 分 从 Remark
样品编号 Sample No. b1#	b1#~b2#: first cycle in fully charge b3#~b4#: 第二十五个循环完全充b3#~b4#: after 25 cycles ending in 样品表面最高温度 Max External Temperature(ged states; 它电的电池。 in fully charged states. (°C) 测试结果 Test resul	A 分 从 Remark

注: D-解体; R-破裂; F-起火; O-无解体、无破裂、无起火。 Note: D-Disassembly, R-Rupture, F-Fire, O-No Disassembly, No Rupture & No Fire.

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序号 No.	附表 6 Appendix		ISTO	测试项目名称 Name of test	Salan	挤压 Crush	8
io, siglone	(适用于棱柱形、将电池或元件电池; 为 1.5cm/s。挤压持(a)施加的力量达到	放在两个平 续进行,直	面之间挤原 1到出现以	玉,挤压力度:	逐渐加大,在第	百一个接触点上的	内速度大组
	(b)电池的电压下降 (c)电池变形量达原 棱柱形或袋装电池	至少 100 毫 始厚度的 50 应从最宽的	:伏; 或 0%或以上 一面施压。	纽扣/硬币电		長面施压。圆柱3	 10
标准要求 Requirement	与纵轴垂直的方向 试验电池或电池组 无解体、无破裂、	的组成电芯				程中和试验后(5小时内
of Standard	Crush (applicable to diameter): A cell or gradual with a speed continued until the f (a)The applied force (b)The voltage of the (c)The cell is deform	component of of approximiting of the the reaches 13ke cell drops	cell is to be nately 1.5c ree options N±0.78kN by at least	crushed between/s at the first below is reach; 100mV; or	een two flat surf point of contact and.	aces. The crushin	g is to be
	Once the maximum cell is deformed by a Each test cell or com this requirement if the no fire during the test.	pressure has at least 50% aponent cell aeir external	been obtai of its origin is to be sub temperatur	ned, the voltage nal thickness, to ejected to one of the does not exc	ge drops by at le the pressure shal crush only. Cells	l be released. s and component	cells mee
样品状态 Sample status	C1#~C5#: 第一个 C1#~C5#: first cyc C6#~C10#: 第二十 C6#~C10#: after 2	cle at 50% of 五个循环 5	f the design 50%的额定	rated capacity		CUANCTHOS	
样品编号 Sample No.	样品表面最高温度 Max External Temperature(℃)	测试结果 Test result	备注	样品编号 Sample No.	样品表面最高 Max Extern Temperature(al M 以 结 未	
C1#	25.2	0	/	C6#	25.2	O	/<
C2#	25.3	<i>(</i> 0	10	C7#	25.3	Ф о	STREE!
C3#	25.3	0		C8#	25.2	О	/
C4#	25.2	0	/	C9#	25.2	О О	-UP/GI
C5#	25.4	0	E PINE	C10#	25.3	0	/

注: D-解体; R-破裂; F-起火; O-无解体、无破裂、无起火。

Note: D-Disassembly, R-Rupture, F-Fire, O-No Disassembly, No Rupture & No Fire.

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序号 No.	附表 7 Appendix 7	测试项目名称 Name of test	过度充电 Overcharge
ZOZI 10.	- C	100	CA ²
~~		最大连续充电电流的两倍, 试验	
16	CAV	大于 18V 时,试验的最小电压	玉应是电池组最大充电电压的两
XOM.	倍或 22V 两者中的较少者。		
C) S	(b)制造商建议的充电电压大	大于18V时,试验的最小电压应	是最大充电电压的1.2倍。
,00	可再充电电池组在环境温度下	试验 24h。试样在试验后7天内	应无解体和无燃烧。
标准要求		e the manufacturer's recommended	d maximum continuous charge
Requirement	current. The minimum voltage of		5
of Standard		ommended charge voltage is not n sser of two times the maximum ch	
A COLOR	22V.	sser of two times the maximum cr	large voltage of the battery of
CET		ommended charge voltage is more	e than 18V, the minimum voltage
6	of the test shall be 1.2 times the r		THOU , SIMI S
2			on of the test shall be 24 hours.
alc'		s requirement if there is no disas	ssembly and no fire within seven
5	days of the test. b1#~b2#: 第一个循环完全充电	2 44 to 34	
样品状态	b1#~b2#: 第一个循环元全允里 b1#~b2#: first cycle in fully ch		
Sample	b3#~b4#: 第二十五个循环完全	enged states,	
status	b3#~b4#: after 25 cycles ending		
样品编号	测试结果	Z C M	备注
Sample No.	Test result	NO THEORY	Remark
	Z 6	-11110	500
b1#	10.0	ALC: ARE	Mp /
~	The state of the s	(5°)	50
b2#	0	, on the	30 / MGV
CHILD		110	ENP.
b3#	03	Mar Mar	10
20	50° 150° -	11,0	
b4#	0 m	20,	18- 1
. 6			£, 0,

注: D-解体; R-破裂; F-起火; O-无解体、无破裂、无起火。

Note: D-Disassembly, R-Rupture, F-Fire, O-No Disassembly, No Rupture & No Fire.

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序号 No.	附表 8 Appendix 8	30572	测试项目名和 Name of tes		强制放电 Forced discharge
标准要求 Requirement of Standard	定的最大放电电流的燃烧。 Each cell shall be for D.C. power supply a manufacturer. The spappropriate size and interval (in hours) eq	的条件下强制 ced discharge t an initial cur pecified discharating in serie ual to its rate	d at ambient tempera rent equal to the max arge current is to be o s with the test cell. Ead d capacity divided by	再充电电池在试验后 ture by connecting it imum discharge curr btained by connectin ach cell shall be force the initial test curren	
样品状态 Sample status	C11#~C20#:第一/ C11#~C20#: first cyc C21#~C30#:第二- C21#~C30#: after 25	cle in fully dis 十五个循环完	scharged states; 全放电的电芯。	GUANETHOU	ener defini
样品编号 Sample No.	测试结果 Test result	备注 Remark	样品编号 Sample No.	测试结果 Test result	备注 Remark
C11#	О	P	C21#	0	
C12#	0	d 600 /	C22#	0	5 15 ONE
C13#	1 0 W	1	C23#	O O	1019
C14#	0	NA PER	C24#	0	MARCH /
C15#	0	TOMPS /	C25#	Section O	18
C16#	0 NO	1	C26#	0	- CF7
C17#	OCA	9	C27#	0	
C18#	O	} /	C28#	0	15th
C19#	O CO	1,0	C29#	O	10 MS /
C20#	0	- ZST	C30#	0	John / Well

注: D-解体; R-破裂; F-起火; O-无解体、无破裂、无起火。

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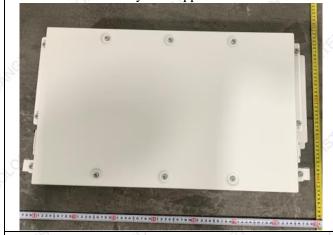
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样品图片

Photo of the sample

电池正面外观

Battery front appearance



电池侧面外观

Battery side appearance



电池侧面外观

Battery side appearance



电池铭牌(含 Wh) Battery nameplate (With Wh)

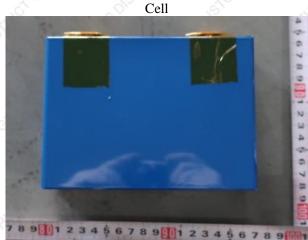
Model: LUNA2000-5-E0 Name: Energy Storage Module HUAWEI

Battery Type: LI-ion
Battery Energy: 5 kWh
Input/Output: == 350 - 435 V; 7.5 A; 2.5 kW
Max Output Current: 10 A
Protective Class: I
Battery Interface: Isolated
Enclosure Type: IP66
Weight: 50 kg
Operatin

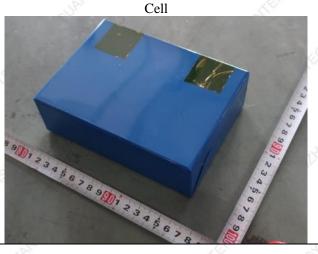
Operating Temperature Range: - 20 - +55 ℃

华为技术有限公司 HUAWEI TECHNOLOGIES CO., LTD. 中国制造 MADE IN CHINA HQ of Huawei, Bantian, Longgang District, Shenzhen, 518129, P.R.C

电芯



电芯



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Inspection Address: Room C102, No.1 Nanxiangzhi Road, Science City, Guangzhou, Guangdong, China (Light Industry Testing Laboratory in Science City)

电话(Tel): 020-38669019-811

电子邮箱(E-mail): battery@iqtcnet.cn; itl@iqtcnet.cn

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