



中国认可
国际互认
检测
TESTING
CNAS L0095

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No.: RZUN012025-0418

检测报告

TEST REPORT

UN38.3

NAME OF SAMPLE:

Rechargeable Li-ion Battery Pack

产品名称:

可充式锂离子电池组

CLIENT:

Brightway Innovation Intelligent Technology
(Suzhou) Co., Ltd.

委托单位:

坦途创新智能科技（苏州）有限公司

CLASSIFICATION OF TEST:

Commission Test

检测类别:

委托测试

威凯检测技术有限公司
CVC Testing Technology Co., Ltd.

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Name of samples: Rechargeable Li-ion Battery Pack 样品名称:可充式锂离子电池组	Type/Model: 型号规格: T2504-B61A 21,6V 2,55Ah 55,08Wh
Color: Blue 样品颜色:蓝色	Physical shape:Prismatic 样品形状:棱柱形
Commissioned by: Brightway Innovation Intelligent Technology (Suzhou) Co., Ltd. 委托单位: 坦途创新智能科技(苏州)有限公司	Commissioner address:Building A2, Shangjinwan Headquarters Economic Park, No.2288, Wuzhong Avenue, Wuzhong Economic Development Zone, Suzhou Jiangsu P.R. China 委托单位地址:苏州吴中经济开发区吴中大道 2288 号尚金湾总部经济园 A2 幢
Manufacturer: Yiyang Corun Battery Co.,Ltd. 制造商: 益阳科力远电池有限责任公司	Manufacturer address:No.189 YuXingShan Road, YiYang City, Hunan Province, China 制造商地址: 湖南省益阳市鱼形山路 189 号
Factory: Yiyang Corun Battery Co.,Ltd. 生产厂: 益阳科力远电池有限责任公司	Factory address: No.189 YuXingShan Road, YiYang City, Hunan Province, China 生产厂地址: 湖南省益阳市鱼形山路 189 号
Classification of test: Commission Test 检测类别: 委托测试	Quantity of sample: 8 battery packs, 30 cells 样品数量: 8 个电池组, 30 个电芯
Tested according to: 测试标准: ST/SG/AC.10/11/Rev.8/ Section 38.3	Sample identification: 样品标识序号:b1#~b8#, c1#~c30#
Receiving date: 接样日期: 2025-06-03	Means of receiving: Submitted by commissioner 接样方式: 委托单位送样
Completing date: 完成日期: 2025-07-02	Test item: 8 items 测试项目: 8 项
Test conclusion: 检测结论: The Rechargeable Li-ion Batteries Pack submitted by Brightway Innovation Intelligent Technology (Suzhou) Co., Ltd. are tested according to Section 38.3 of the Eighth revised edition of the Manual of Tests and Criteria (ST/SG/AC.10/11/Rev.8/Section 38.3). The test items are full items. The test results comply with the relevant requirements of the standard. 由坦途创新智能科技(苏州)有限公司送检的可充式锂离子电池组, 依据联合国《试验和标准手册》第八修订版第 38.3 节进行检测, 试验为全项目, 试验结果符合标准相关要求。 Seal of CVC CVC 盖章 Date of issue: 签发日期: 2025-07-07	

Title: Manager
批准人职务: 经理

Approved by: Zhang Siyao Reviewed by: Zheng Feida Tested by: Deng Junzhao

批 准: Zhang siyao 审 核: Zheng Feida 检 测: Deng Junzhao

Description and illustration of the sample:

样品说明及描述:

The sample's status is good

样品状况良好。

The battery (T2504-B61A) is composed of cells (N18650CH), and the connection mode is: 6S1P

电池组 (T2504-B61A) 由电芯 (N18650CH) 组成, 连接方式为: 6S1P

Cell Dimensions/电芯尺寸: $\phi 18\text{mm} \times 65\text{mm}$

Watt-hour rating of each battery/ 单个电池组的瓦时数: 55,08Wh

Test item 试验项目	Sample No. 样品编号	State 状态	Remark 备注
T.1~T.5	b1#~b4#	at first cycle, in fully charged states 第一个交替充电放电周期完全充电状态	-
	b5#~b8#	after 25 cycles ending in fully charged states 第 25 个交替充电放电周期完全充电状态	-
T.6	c1#~c5#	at first cycle at 50% of the design rated capacity 第一个交替充电放电周期充电到设计额定容量的 50%	-
	c6#~c10#	after 25 cycles ending at 50% of the design rated capacity 第 25 个交替充电放电周期充电到设计额定容量的 50%	
T.7	b1#~b4#	at first cycle, in fully charged states 第一个交替充电放电周期完全充电状态	using undamaged samples previously used in tests T.1 to T.5 使用试验 T.1 至 T.5 未损坏的样品
	b5#~b8#	after 25 cycles ending in fully charged states 第 25 个交替充电放电周期完全充电状态	
T.8	c11#~c20#	at first cycle, in fully discharged states 第一个交替充电放电周期完全放电状态	-
	c21#~c30#	after 25 cycles ending in fully discharged states 第 25 个交替充电放电周期完全放电状态	-

The test objects of T.1~T.5 and T.7 are battery packs, and the sample numbers are b1#~b8#

T.1~T.5、T.7 的测试对象为电池组, 样品编号为 b1#~b8#。

The test objects of T.6 and T.8 are component cells, and the sample numbers are c1#~c30#

T.6、T.8 的测试对象为组成电芯, 样品编号为 c1#~c30#。

Description of the sampling procedure:

取样程序的说明:

/

Description of the deviation from the standard, if any:

试验结果不符合标准项的说明:

/

Remarks:

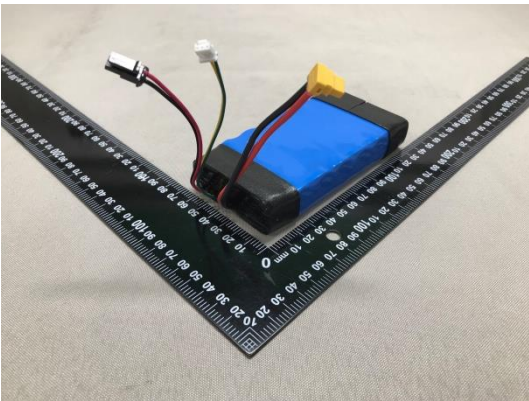
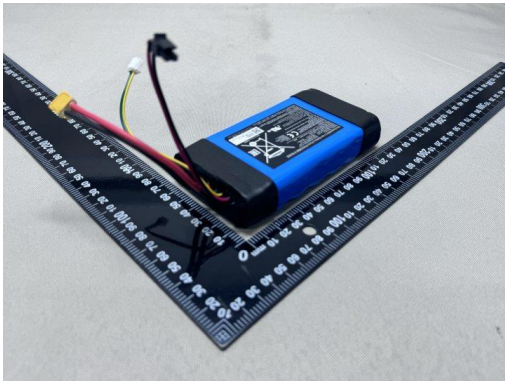
备注:

Throughout this report a comma is used as the decimal separator.

本报告中以逗号代替小数点。

Photos of Samples and Labels/样品照片及标识

Battery/电池 (T2504-B61A 21,6V 2,55Ah 55,08Wh)



Photos of Samples and Labels/样品照片及标识

Component Cell/内部电芯 (N18650CH 3,6V 2,6Ah 9Wh)

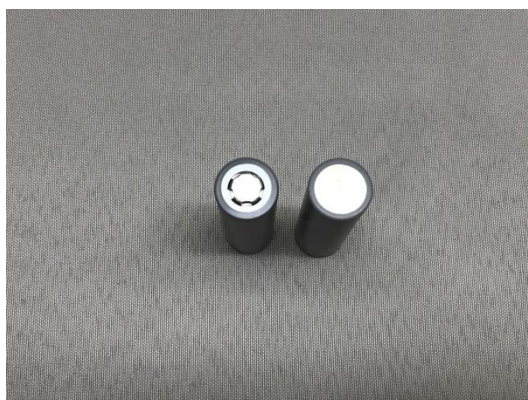
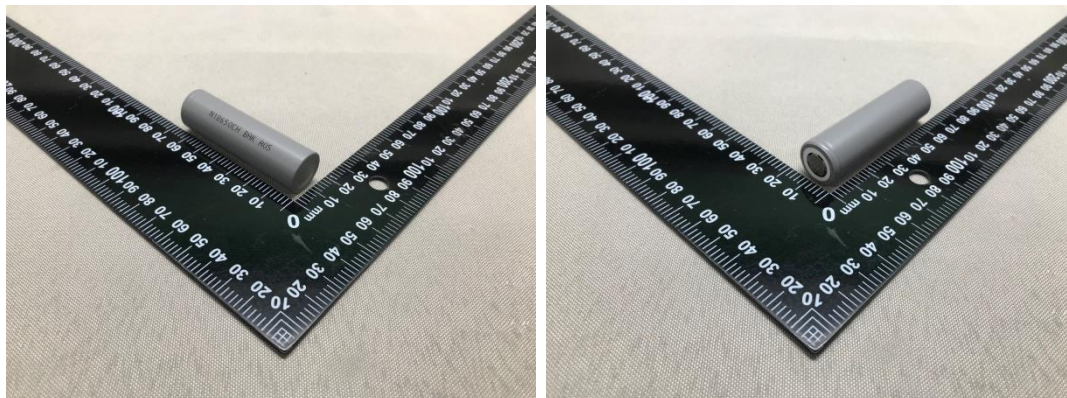


Table1: T1~T5 / 表 1. 试验 1~试验 5

Sample No. 样品号	Mass prior to test / 试验前质量(g)	OCV prior to test / 试验前电压(V)	Test T.1: Altitude simulation/ 试验 T.1: 高度模拟		Test T.2: Thermal test/ 试验 T.2: 温度试验		Test T.3: Vibration/ 试验 T.3: 振动		Test T.4: Shock/ 试验 T.4: 冲击		Test T.5: External Short Circuit/ 试验 T.5 外部短路
			Mass Loss(%) 质量损失(%)	OCV Retention Ratio(%) 电压保留比(%)	Mass Loss(%) 质量损失(%)	OCV Retention Ratio(%) 电压保留比(%)	Mass Loss(%) 质量损失(%)	OCV Retention Ratio(%) 电压保留比(%)	Mass Loss(%) 质量损失(%)	OCV Retention Ratio(%) 电压保留比(%)	Temp. (°C) 温度 (°C)
b1#	344,05	25,067	0,002	100,00	0,063	98,93	0,000	100,00	0,000	99,96	57,1
b2#	344,65	25,071	0,002	100,00	0,072	98,90	0,000	100,00	0,000	100,00	57,0
b3#	343,94	25,063	0,005	100,00	0,069	98,91	0,000	100,00	0,000	100,00	57,2
b4#	344,16	25,049	0,002	99,99	0,052	98,94	0,000	100,00	0,000	100,00	57,1
b5#	343,95	25,048	0,000	99,99	0,084	98,94	0,000	100,00	0,000	100,00	57,2
b6#	344,66	25,062	0,005	100,00	0,075	98,91	0,000	100,00	0,000	100,00	57,0
b7#	344,15	25,070	0,005	100,00	0,072	98,90	0,000	100,00	0,000	100,00	56,9
b8#	344,12	25,066	0,000	99,99	0,081	98,90	0,000	100,00	0,000	100,00	57,1

Table2: Impact / 表 2: 撞击											
Test T.6: Impact/试验 T.6: 撞击	Sample No. 样品号	c1#	c2#	c3#	c4#	c5#	c6#	c7#	c8#	c9#	c10#
	OCV prior to test / 试验前电压 (V)	3,682	3,681	3,681	3,682	3,682	3,682	3,678	3,682	3,681	3,681
	Temp. (°C) 温度 (°C)	24,1	26,0	26,9	27,0	26,4	27,6	87,3	31,9	26,6	23,6

Table3: Overcharge Test of batteries/ 表 3 过度充电									
Test T.7: Overcharge / 试验 T.7: 过度 充电	Sample No. 样品号	b1#	b2#	b3#	b4#	b5#	b6#	b7#	b8#
	OCV prior to test /试验前电压 (V)	25,066	25,065	25,066	25,059	25,064	25,067	25,061	25,059

Table 4: Forced discharge / 表 4. 强制放电											
Test T.8: Forced discharge / 试验 T.8: 强制放电	Sample No. 样品号	c11#	c12#	c13#	c14#	c15#	c16#	c17#	c18#	c19#	c20#
	OCV prior to test / 试验前电压(V)	2,765	2,766	2,803	2,815	2,805	2,779	2,784	2,780	2,789	2,791
	Sample No. 样品号	c21#	c22#	c23#	c24#	c25#	c26#	c27#	c28#	c29#	c30#
	OCV prior to test / 试验前电压(V)	2,802	2,807	2,803	2,779	2,784	2,782	2,790	2,788	2,801	2,803

注 意 事 项 Important

1. 报告无检测单位印章无效。
The test report is invalid without the seal of CVC.
2. 未经本试验室书面同意，不得部分地复制本报告。
Nobody is allowed to photocopy or partly photocopy this test report without written permission of CVC.
3. 本报告无批准人、审核人及检测人签名无效。
The test report is invalid without the signatures of Ratifier, Reviewer and Testing engineer.
4. 本报告涂改无效。
The test report is invalid if altered,
5. 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 CVC within 15 days.
6. 本报告仅对送检样品负责。
The test report is valid for the tested samples only.
7. 判定栏中“-”表示“不需要判定”，“P”表示“通过”，“F”表示“不通过”，“N/A”表示“不适用”。
As for the Verdict, “-” means “no need for judgement”, “P” means “pass”, “F” means “fail” and “N/A” means “not applicable”.

****报告中未加 CMA 标志时，检测数据和结果仅供科研、教学或内部质量控制之用。****
The test data and test results given in this test report should only be used for purposes of scientific research, teaching and internal quality control when the CMA symbol is not presented.

地 址： 广东省广州市科学城开泰大道天泰一路 3 号

广东省广州市黄埔区光谱东路 179 号百事高智慧园 D 栋（测试地点）

Lab Address: No.3, Tiantai 1st Road, Kaitai Avenue, Science City, Guangzhou, Guangdong, China.

Testing Location: Building D, BASIGO INTELLIGENT, No.179, Guangpu East Road, Huangpu District, Guangzhou, P. R. China.

电 话(Tel): 020 32293888

邮政编码(Post Code): 510663

传 真(FAX): 020 32293889

E-mail: office@cvc.org.cn

<http://www.cvc.org.cn>