

560-BATT LITHIUM-ION BATTERY PACK TEST SUMMARY
 IN ACCORDANCE WITH SUB-SECTION 38.3 OF
 MANUAL OF TESTS AND CRITERIA

BATTERY TRANSPORTATION INFORMATION

Name of Model and Product manufacturer. Item Number: 560-BATT Item Description: Lithium Ion Battery Pack. Bayco Products Inc. 1640 Sanden Blvd. Wylie Tx, 75098		Battery contract manufacturer's contact information. Electrochem Automation (Shanghai) Co., LTD. No. 5788 Huaxia (W) Rd. Pudong, Shanghai, P.R. China 201204	
Name of Test Laboratory. VKAN Certification and Testing Co. LTD. No. 3, Tiantaiyi Road, Kaitai Science City, Guangzhou P.R. China		Test Report Identification No. RZUN2016-2118	Date of Test Report 05/25/2016
Description: Battery Pack for Flash\Work Light Cell Type: ICR18650-26 V/Capacity/W/H rating: 3.7V / 2600mAh /9.62Wh Battery Weight: 0.047 Kgm		List of tests conducted and results (ie: pass/fail). Test T.1: Altitude Simulation : P Test T.2: Thermal Test : P Test T.3: Vibration : P Test T.4: Shock : P Test T.5: External Short Circuit: P Test T.6: Impact/Crush: P/na Test T7: Overcharge : P Test T.8: Forced Discharge : P Comments: N/A	
Testing Requirements: The Rechargeable lithium Batteries supplied by BAYCO PRODUCTS INC are tested according to Section 38.3 of the Fifth Revised Edition of the Recommendations on the Transport of Dangerous Goods, manual of Test and Criteria (ST/SG/AC.10/11/Rev.5/Amend .2/Section 38.3). The results comply with the relevant requirements of the standard.			
Reference to assembled battery testing: Section 38.3	Reference to the revised edition of the manual of Tests and Criteria: Section 38.3 of the Fifth Revised Edition of the Recommendations on the Transport of Dangerous Goods, manual of Test and Criteria (ST/SG/AC.10/11/Rev.5/Amend .2/Section 38.3).	For air transport only does the battery comply with the 30% State of Charge: Y	
PRODUCT CLASSIFICATION FOR TRANSPORT (According to UN – DGP)			
UN Classification: UN 3481		Proper Shipping Name: Lithium Ion Batteries (Contained in equipment)	
Signature & Title: James Conner Engineer <i>James Conner</i>		This document remains valid as long as no changes, modifications or additions are made to the model(s) described in this document, after being transported from the manufacturing facility. The model(s) has (have) been classified according to the applicable transport regulations and the UN Manual of Tests and Criteria as of the date of the certification. The model(s) must be packaged, labelled, and documented according to the country and other international regulations for transportation.	
Date: 8/7/2019			



中国认可
检测
TESTING
CNAS L0748



170014233963



NO.1121040718

检 测 报 告

Test Report

样品名称： 充电锂电池组 560-BATT 3.7V 2600mAh

Name of Sample: Lithium Battery Pack 560-BATT 3.7V 2600mAh

委托单位： 全能电池（上海）有限公司

Consignor: ELECTROCHEM AUTOMATION(SHANGHAI)CO.,LTD



上海化工院检测有限公司

Shanghai Institute of Chemical Industry Testing Co., Ltd.



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上海化工院检测有限公司 检测报告

Shanghai Institute of Chemical Industry
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样品名称 Name of Sample	中文 Chinese	充电锂电池组 560-BATT 3.7V 2600mAh		
	英文 English	Lithium Battery Pack 560-BATT 3.7V 2600mAh		
样品编号 Sample No.	1121040718			
委托单位 Consignor	全能电池(上海)有限公司 ELECTROCHEM AUTOMATION(SHANGHAI)CO.,LTD			
生产单位 Manufacturer	全能电池(上海)有限公司 ELECTROCHEM AUTOMATION(SHANGHAI)CO.,LTD			
检测方法 Test method	联合国《关于危险货物运输的建议书 试验和标准手册》 ST/SG/AC.10/11/Rev.6 Amend.1 38.3 UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS" Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6 Amend.1 Section 38.3			
判定标准 Criterion	联合国《关于危险货物运输的建议书 试验和标准手册》 ST/SG/AC.10/11/Rev.6 Amend.1 38.3 UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS" Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6 Amend.1 Section 38.3			
样品外观 Appearance	绿色 圆柱型塑料薄膜外壳 Green Cylinder plastics film shell			
样品接受日期 Accepted Date	2021-04-30	检测起迄日期 Test Date	2021-05-17 ~ 2021-06-08	
检测项目 Test Items	高度模拟;热测试;振动;冲击;外短路;撞击;过充电;强制放电 Altitude simulation,Thermal test,Vibration,Shock,External short circuit,Impact,Overcharge,Forced discharge			
检测结论 Conclusion	经检测,该样品符合联合国《关于危险货物运输的建议书 试验和标准手册》ST/SG/AC.10/11/Rev.6 Amend.1 38.3标准要求。 The sample has passed the test items of UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS" Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6 Amend.1 38.3 生效日期(Date): 2021-06-09			
备注 Comment	可充电单电芯电池Rechargeable Single Cell Battery./			
委托单位地址 Consignor Address	/		邮政编码 Post Code	/

批准
Approver:
职务
Title:

王军

副总工程师(Vice chief engineer)

审核
Checker:

高平

编制
Compiler:

傅佳



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上海化工院检测有限公司 检测报告

Shanghai Institute of Chemical Industry
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序号 No.	检测项目名称 Name of Test Items	标准要求或标准条款号 Standard requirement or The Clause Number of Standard	检测结果 Test Result	本项结论 Conclusion	备注 Remark	
1	高度模拟 Altitude simulation	联合国《关于危险货物运输的建议书 试验和标准手册》ST/SG/AC.10/11/Rev.6 Amend.1 38.3 试验T.1 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6 Amend.1 Section 38.3 Test T.1	见附表 1 See Appendix 1	合格 Passed	/	
2	热测试 Thermal test	联合国《关于危险货物运输的建议书 试验和标准手册》ST/SG/AC.10/11/Rev.6 Amend.1 38.3 试验T.2 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6 Amend.1 Section 38.3 Test T.2	见附表 2 See Appendix 2	合格 Passed	/	
3	振动 Vibration	联合国《关于危险货物运输的建议书 试验和标准手册》ST/SG/AC.10/11/Rev.6 Amend.1 38.3 试验T.3 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6 Amend.1 Section 38.3 Test T.3	见附表 3 See Appendix 3	合格 Passed	/	
4	冲击 Shock	联合国《关于危险货物运输的建议书 试验和标准手册》ST/SG/AC.10/11/Rev.6 Amend.1 38.3 试验T.4 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6 Amend.1 Section 38.3 Test T.4	见附表 4 See Appendix 4	合格 Passed	/	
5	外短路 External short circuit	联合国《关于危险货物运输的建议书 试验和标准手册》ST/SG/AC.10/11/Rev.6 Amend.1 38.3 试验T.5 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6 Amend.1 Section 38.3 Test T.5	见附表 5 See Appendix 5	合格 Passed	/	
6	撞击 Impact	联合国《关于危险货物运输的建议书 试验和标准手册》ST/SG/AC.10/11/Rev.6 Amend.1 38.3 试验T.6 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6 Amend.1 Section 38.3 Test T.6	见附表 6 See Appendix 6	合格 Passed	/	
7	过充电 Overcharge	联合国《关于危险货物运输的建议书 试验和标准手册》ST/SG/AC.10/11/Rev.6 Amend.1 38.3 试验T.7 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6 Amend.1 Section 38.3 Test T.7	见附表 7 See Appendix 7	合格 Passed	/	
8	强制放电 Forced discharge	联合国《关于危险货物运输的建议书 试验和标准手册》ST/SG/AC.10/11/Rev.6 Amend.1 38.3 试验T.8 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6 Amend.1 Section 38.3 Test T.8	见附表 8 See Appendix 8	合格 Passed	/	
检测环境条件 Test Environment Condition		环境温度:21℃-23℃;环境湿度:/% Ambient temperature:21℃-23℃;Ambient humidity:/%				
分包检验情况 Subcontracted Test Condition		检测项目 Test Item	/			
		分包实验室 Subcontracted Laboratory	名称 Name	/	邮编 Post Code	/
		地址 Address	/	电话 Tel	/	



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**上海化工院检测有限公司
检测报告-附表1**

Shanghai Institute of Chemical Industry
Testing Co., Ltd. Test Report—Appendix 1

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序号 No.	1	检测项目名称 Name of Test Items		高度模拟 Altitude simulation				
		试验前 Before		试验后 After		质量损失 Mass Loss /%	剩余电压 Residual OCV /%	其他 现象 Other Event
样品 编号 Sample No.	样品状态 Sample Status	质量 Mass /g	开路电压 OCV /V	质量 Mass /g	开路电压 OCV /V			
001	1CYC完全充电 1CYC Fully charged	45.6276	4.16	45.6286	4.16	0.00	100.00	O
002	1CYC完全充电 1CYC Fully charged	45.5308	4.16	45.5311	4.16	0.00	100.00	O
003	1CYC完全充电 1CYC Fully charged	45.6384	4.16	45.6393	4.16	0.00	100.00	O
004	1CYC完全充电 1CYC Fully charged	45.6482	4.16	45.6463	4.16	0.00	100.00	O
005	1CYC完全充电 1CYC Fully charged	45.5135	4.16	45.5151	4.16	0.00	100.00	O
006	25CYC完全充电 25CYC Fully charged	45.7871	4.16	45.7872	4.16	0.00	100.00	O
007	25CYC完全充电 25CYC Fully charged	45.5619	4.16	45.5624	4.16	0.00	100.00	O
008	25CYC完全充电 25CYC Fully charged	45.6689	4.16	45.6685	4.16	0.00	100.00	O
009	25CYC完全充电 25CYC Fully charged	45.6128	4.16	45.6144	4.16	0.00	100.00	O
010	25CYC完全充电 25CYC Fully charged	45.7323	4.16	45.7321	4.16	0.00	100.00	O
以下空白	This space intentionally left blank							
备注: L-泄漏 V-漏气 D-解体 R-破裂 F-起火 O-无泄漏、无漏气、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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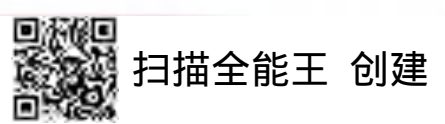
检测报告-附表2

Shanghai Institute of Chemical Industry
Testing Co., Ltd. Test Report—Appendix 2

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序号 No.	2	检测项目名称 Name of Test Items		热测试 Thermal test				
		试验前 Before		试验后 After		质量损失 Mass Loss /%	剩余电压 Residual OCV /%	其他 现象 Other Event
样品 编号 Sample No.	样品状态 Sample Status	质量 Mass /g	开路电压 OCV /V	质量 Mass /g	开路电压 OCV /V			
001	1CYC完全充电 1CYC Fully charged	45.6286	4.16	45.6344	4.11	0.00	98.80	0
002	1CYC完全充电 1CYC Fully charged	45.5311	4.16	45.5369	4.11	0.00	98.80	0
003	1CYC完全充电 1CYC Fully charged	45.6393	4.16	45.6455	4.11	0.00	98.80	0
004	1CYC完全充电 1CYC Fully charged	45.6463	4.16	45.6543	4.11	0.00	98.80	0
005	1CYC完全充电 1CYC Fully charged	45.5151	4.16	45.5196	4.11	0.00	98.80	0
006	25CYC完全充电 25CYC Fully charged	45.7872	4.16	45.7929	4.11	0.00	98.80	0
007	25CYC完全充电 25CYC Fully charged	45.5624	4.16	45.5688	4.11	0.00	98.80	0
008	25CYC完全充电 25CYC Fully charged	45.6685	4.16	45.6750	4.11	0.00	98.80	0
009	25CYC完全充电 25CYC Fully charged	45.6144	4.16	45.6200	4.11	0.00	98.80	0
010	25CYC完全充电 25CYC Fully charged	45.7321	4.16	45.7383	4.11	0.00	98.80	0
以下空白	This space intentionally left blank							
备注: L-泄漏 V-漏气 D-解体 R-破裂 F-起火 0-无泄漏、无漏气、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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 检测报告-附表8
 Shanghai Institute of Chemical Industry
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序号 No.	8	检测项目名称 Name of Test Items	强制放电 Forced discharge
样品编号 Sample No.	样品状态 Sample Status	其他现象 Other Event	
029	1CYC完全放电 1CYC Fully discharged		0
030	1CYC完全放电 1CYC Fully discharged		0
031	1CYC完全放电 1CYC Fully discharged		0
032	1CYC完全放电 1CYC Fully discharged		0
033	1CYC完全放电 1CYC Fully discharged		0
034	1CYC完全放电 1CYC Fully discharged		0
035	1CYC完全放电 1CYC Fully discharged		0
036	1CYC完全放电 1CYC Fully discharged		0
037	1CYC完全放电 1CYC Fully discharged		0
038	1CYC完全放电 1CYC Fully discharged		0
039	25CYC完全放电 25CYC Fully discharged		0
040	25CYC完全放电 25CYC Fully discharged		0
041	25CYC完全放电 25CYC Fully discharged		0
042	25CYC完全放电 25CYC Fully discharged		0
043	25CYC完全放电 25CYC Fully discharged		0
044	25CYC完全放电 25CYC Fully discharged		0
045	25CYC完全放电 25CYC Fully discharged		0
046	25CYC完全放电 25CYC Fully discharged		0
047	25CYC完全放电 25CYC Fully discharged		0
048	25CYC完全放电 25CYC Fully discharged		0
备注: D-解体 F-起火 0-无解体、无起火。 Note: D-Disassembly F-Fire O-No Disassembly & No Fire.			



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报告结束

