


1.0 Products covered by this Test Summary

Model Number	Description	Notes
APCRBC174-LI	APC Lithium Ion Replacement Battery Cartridge	

			Battery pack is a manufactured article consisting of a plastic and metal sealed case containing electronics and cylindrical lithium-ion battery/cells. Solid.
---	--	--	---

1.1 Batteries in Products

#	Model Number	Description	Notes
1	APCRBC174-LI, 911-9023	Li-Ion Battery Pack ; 48 VDC; 432 Wh	
2	APCRBC174-LI-1, SE2101, 911-9023	Li-Ion Battery Pack ; 48 VDC; 432 Wh	

1.2 Cells in Batteries

#	Model Number	Description	Notes
3	26650PFS	Lithium-ion Cell; 3.2Vdc ; 3000mAh	
4	IFR26650	Lithium-ion Cell; 3.2Vdc ; 3000mAh	

2.0 Manufacturers of Cells/Batteries

2.1 Battery Maker #1

Name	Address	Phone	Website
------	---------	-------	---------

SHENZHEN ACE BATTERY CO.,LTD DAPENG BRANCH	101/Room 101, Building B05, BAK Industrial Park, No. 119-2 Kuipeng Road, Kuixin Zone, Kuichong Street, Dapeng District, Shenzhen, Guangdong Province 518119, P.R.China	+86-755- 86541827	www.acebattery.com
--	---	----------------------	--------------------

2.1 Battery Maker #2

Name	Address	Phone	Website
C-TECH. United Corporation	5F., No.669, Zhongzheng Road, Xinzhuang District, New Taipei City 24257, Taiwan	886-2-2901-6600	ww.c-techone.com/

2.1 Cell Maker #3

Name	Address	Phone	Website
DALIAN CBAK POWER BATTERY CO.,LTD	No. 11, Meigui Street, Huayuankou Economic Zone, Dalian, Liaoning, 116450 CHINA	0086-0411- 39185968	www.cbak.com.cn

2.1 Cell Maker #4

Name	Address	Phone	Website
O'CELL New Energy Technology CO., LTD	Osai Technology Industrial Park, No. 1, Yayuan Road, Xiaoting District, Yichang City, Hubei Province	0717-6344848	www.ocelltech.cn/

3.0 Test Laboratories of Cells / Batteries

3.1 Test for Battery #1

Name		Address	Phone	Website
Precise Testing & Certification(Guangdong) Co., Ltd.		Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China.	0769-38808222	www.ptc-testing.com
Test ID No:	PTC21051204001S-LD01			
Date:	2020-05-20			
NOTES: The samples has passed the test items of Manual of Tests and Criteria (ST/SG/AC.10/11/Rev.6/Amend.1), Part III sub-section 38.3.				

	Lithium Ion Cell
XXX	Lithium Ion Battery

	Lithium Metal Cell
	Lithium Metal Battery

3.1 Test for Battery #2

Name		Address	Phone	Website
AnTek Certification Inc.		7F, No.351, Yangguang St. Taipei, 11491 Taiwan	+886-2-8752-3779	www.atclab.com.tw
Test ID No:	TW2210098-001			
Date:	2022-11-07			
NOTES: The samples has passed the test items of Manual of Tests and Criteria (ST/SG/AC.10/11/Rev.7/Amend.1), Part III sub-section 38.3.				

	Lithium Ion Cell
XXX	Lithium Ion Battery

	Lithium Metal Cell
	Lithium Metal Battery

4.0 Parameters of Cells/Batteries

4.1 Battery #1

Parameters	Cell#3 (26650PFS)	Battery#1
Mass (Kg)	0.088	3.96
Lithium ion Indicate watt-hour rating (Wh)	9.6	432
Lithium metal Indicate lithium metal content in gram (g)	N/A	N/A

Physical Description of Cells / Batteries

APCRBC174-LI, 911-9023

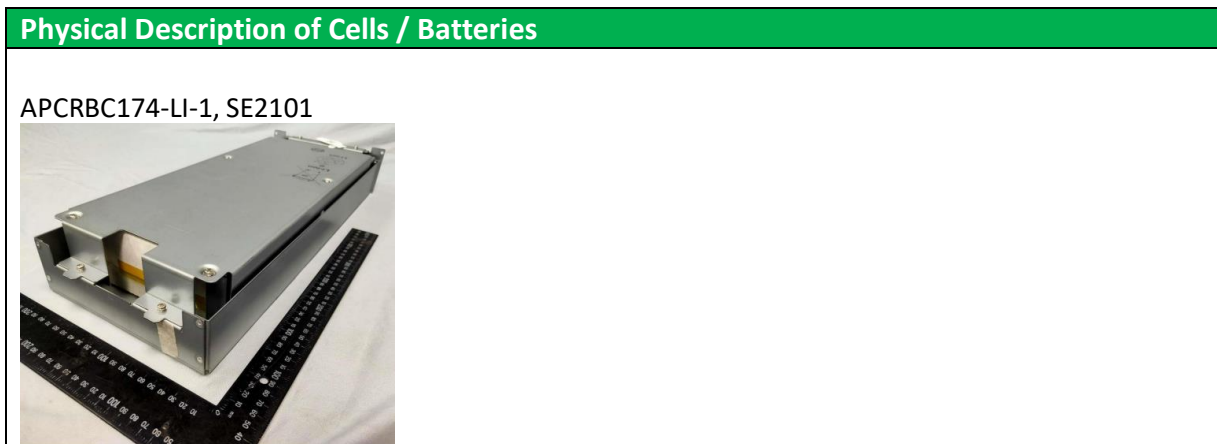


APCRBC174-LI,911-9023 Label

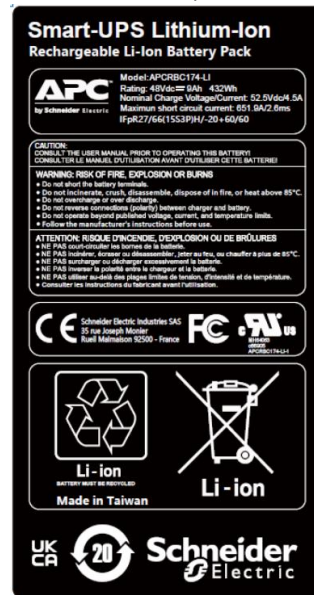


4.1 Battery #2

Parameters	Cell#4 (IFR26650)	Battery#2
Mass (Kg)	0.082	3.69
Lithium ion Indicate watt-hour rating (Wh)	9.6	432
Lithium metal Indicate lithium metal content in gram (g)	N/A	N/A



APCRBC174-LI,SE2101 Label



Cell (Cell #4)

IFR26650



5.0 List of tests conducted and results

Test	Pass	Fail	N/A
T1 – Altitude simulation	X		
T2 – Thermal Tests	X		
T3 – Vibration	X		
T4 – Shock	X		
T5 – External Short Circuit	X		
T6 – Impact	X		
T7 – Overcharge	X		
T8 – Forced Discharge	X		

6.0 UN38.3 Test Conformation for the Cells inside the battery:

	Cell UN 38.3 Test Confirmed (Yes or No)
When no separate document for the cells is provided, this confirms that the cells inside the battery have successfully passed the UN 38.3 test. In this case under section 5.0 the T7 and T8 must be marked as “passed” and here under section 6.0 “Cell UN 38.3 Test confirmed” needs to be Yes.	YES

7.0 Reference to assembled battery testing requirements

	Not Applicable
	XXX

8.0 Reference to the edition on the Manual of Tests and Criteria applied

ST/SG/AC.10/11/Rev.6/Amend.1 and ST/SG/AC.10/11/Rev.7/Amend.1 Recommendations on the Transport of Dangerous Goods: Manual of Tests and Criteria, Part III, Sub-Section 38.3 Lithium metal and lithium ion batteries United Nations
--

9.0 Manufacture of the cell / battery is in accordance with quality management system as required by the regulations:

Schneider Electric certifies that all articles described in this Test Survey are in compliance with all applicable Schneider Electric Product Specifications, Manufacturing Processes, Quality Control Testing, Quality Plan per ISO9001: 2015, and Environmental guidelines.

10.0 Certification

Company: Schneider Electric – Secure Power Division

Signature:



Authorized representative:

Raymond P. Lizotte, Jr.
Director, Sustainability Office
EMAIL: raymond.lizotte@SE.com
Phone: +1 978-691-1468

Date of compilation: October 13, 2023

Place of expertise: Schneider Electric Andover R&D Center
Andover, MA 01810
United States



Company Seal

11.0 Attachments

Images of Test Report Identifiers



LITHIUM ION BATTERY SAFETY TESTING REPORT

Applicant:	American Power Conversion Holdings Inc., Taiwan Branch 5F., No.189, Sec. 2, JIuzong Rd., Neihu District, Taipei City 11494, Taiwan Tel: +886-2-6611-7221 ; E-mail: ken.hsieh@se.com Website: www.apc.com/
Manufacturer:	C-TECH UNITED CORP. 5F, N0.669, Zhongzheng Rd., Xinzhuang District, New Taipei City, Taiwan
Product:	Rechargeable Li-Ion Battery Pack
Model:	APCRBC174-LI
Rating:	48 Vdc, 9 Ah, 432 Wh
Test method & Criterion	UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS" Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7
Appearance	Metal shell
Verification Issuing Office	AnTek Certification Inc. 7F, No.351, Yangguang St. Taipei, 11491 Taiwan Tel: +886-2-8752-3779; Website: www.atclab.com.tw; E-mail: atc@atclab.com.tw
Date Received	Apr. 21, 2022
Test Performed Date:	Aug. 08, 2022 – Oct. 20, 2022
Conclusion:	The sample has passed the test items of UN 38.3
Date of Issued:	Nov. 07, 2022
Comment:	Internal cell source: O'CELL / IFR26650 3.0Ah

						报告编号/ Report No.: PTC21051204001S-LD01					
样品名称 Sample Name		可充电锂离子电组 Rechargeable Li-Ion Battery Pack				样品型号 Sample Model		APCRBC174-L1			
委托单位 Consignor		American Power Conversion Holdings Inc., Taiwan Branch									
生产单位 Manufacturer		深圳市安仕新能源科技有限公司大鹏分公司 SHENZHEN ACE BATTERY CO.,LTD DAPENG BRANCH									
标称电压 Normal Voltage		48V		额定容量 Rated Capacity		9Ah 432Wh		充电限制电压 Limited Charge Voltage		54V	
充电电流 Charge Current		1.8A		最大连续充电电流 Max Continuous Charge		120A		充电截止电流 End Charge Current		180mA	
终止电压 Cut-off Voltage		36V		最大放电电流 Max Discharge Current		4.5A		电芯额定容量 Cell Rated Capacity		3000mAh	
内含电芯个数 Cells Number		45Pcs		电芯型号 Cell Model		26650PFS		商标 Trademark		/	
样品外观 Appearance		长方形电池, 尺寸: 517.4*189.3*77.7 (mm) Rechargeable battery, size: 517.4*189.3*77.7 (mm)									
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书 试验和标准手册》 ST/SG/AC.10/11/Rev.6/Amend 1, 38.3 UNITED NATIONS "Recommendations in the TRANSPORT OF DANGEROUS GOODS" Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6/Amend 1, 38.3									
样品接收日期 Accepted date		2021.04.28				测试起讫日期 Test date		2021.04.28-2021.05.20			
测试项目 Test items		高度模拟、温度试验、振动、冲击、外部短路、撞击、过度充电、强制放电。 Altitude simulation, Thermal test, Vibration, Shock, External short circuit, Impact, Overcharge, Forced discharge.									
测试结论 Conclusion		Test conclusion: 检验结论: The Rechargeable Li-Ion Battery Pack submitted by American Power Conversion Holdings Inc., Taiwan Branch 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.6/Amend 1, 38.3). 由 American Power Conversion Holdings Inc., Taiwan Branch 送检的可充电锂离子电池符合联合国《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 进行检测。 Test result: Pass 检验结果: 通过									
签发日期(Issue date): 2021.05.20											
测试工程师 Compiler:		赖从波		项目工程师 Checker:		黄宏基		批准 Approver:		赖从波	