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CNAS L13807

Report No.: CMC240923033

UN38.3 TEST REPORT

UN38.3 检测报告

Report No.:

报告编号:

CMC240923033

Name of Goods:

物品名称:

Modular Power Station

模块化移动电源

Model:

型号:

VOLTA PRO

Type:

规格:

50.4V 176.4Ah 8890.56Wh

Client:

委托单位:

SWIT Electronics Co., Ltd.

南京奥视威电子科技股份有限公司

Classification

of test:

检测类别:

Commission Test

委托测试

Tested by:

主检人:

Meiko Ma 马方威

Approved by:

批准人:

Dong Le 何立

Inspected by:

审核人:

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CMC 印章:



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TEST REPORT 检测报告

Name of Goods 物品名称	Modular Power Station 模块化移动电源		Model 型号	VOLTA PRO	
Commissioner 委托单位	SWIT Electronics Co., Ltd. 南京奥视威电子科技有限公司				
Commissioner's Address 委托单位地址	10 Heng Tong Road, Xin'gang Nanjing Economic and Technological Development Zone Nanjing 210038, P.R. China 江苏省南京市经济技术开发区恒通大道 10 号				
Manufacturer 制造商	SWIT Electronics Co., Ltd. 南京奥视威电子科技有限公司				
Manufacturer's Address 制造商地址	10 Heng Tong Road, Xin'gang Nanjing Economic and Technological Development Zone Nanjing 210038, P.R. China 江苏省南京市经济技术开发区恒通大道 10 号				
Manufacturer's Contact Telephone 制造商联系电话	+86-15599032767		E-mail 邮箱	tech@softorange.cn	
			Web 网址	http://swit.cc	
Trade Mark/ identification 商标/识别码	SWIT	Shape 形状	Cuboid 长方体	Size 尺寸 (L×W×T)	(598.0×400.0 ×290.0)mm
Nominal Voltage 标称电压	50.4V	Charge Voltage 充电电压	58.8V	Rated Capacity 额定容量	176.4Ah
Battery Module Model 电池模组型号	VA2250	Battery Module Nominal Voltage 电池模组标称电压	50.4V	Battery Module Rated Capacity 电池模组额定容量	44.1Ah
Module Number 模组数量	4PCS (1S4P)	--	--	--	--
Cell Model 电芯型号	INR21700-50 G	Cell Rated Capacity 电芯额定容量	4.9Ah	Cell Nominal Voltage 电芯标称电压	3.6V
Cells Number 电芯数量	504PCS	Sample Receiving Date 样品接收日期	2024.10.08	Testing Date 测试日期	2024.10.08 — 2024.10.22
Test conclusion 检测结论	The sample has passed the test items of UNITED NATIONS “Manual of Tests and Criteria” ST/SG/AC.10/11/Rev.7/ Amend.1 Subsection 38.3 经测试，该样品符合联合国《试验和标准手册》（第 7 修订版 修正 1）38.3 标准要求。				

Test Standard 检测标准

UN "Manual of Tests and Criteria" ST/SG/AC.10/11/Rev.7/Amend.1 Subsection 38.3

联合国《试验和标准手册》（第7修订版 修正1）38.3 节

BXXX is used as the sample number of batteries:

SN240923033B001.

BXXX 代表电池包样板编号:

Test items 测试项目		Overcharge, Short circuit, Over discharge between the batteries. 过度充电、短路、电池组之间过度放电。			
Remark 备注		The lithium battery cluster (the assembled battery) was rated a Watt-hour more than 6200W and formed by electrically connected modules, the modules are of the types proven to meet the requirements of each applicable test in the UN Manual of Tests and Criteria, Part III, sub-section 38.3. (Test Report No.: CMC240923034). 该锂离子电池簇（集成电池组）的额定瓦特-小时数超过 6200Wh，由若干锂电池组以电路连接而成，锂电池组已通过 UN38.3 测试（报告编号：CMC240923034）。			
No. 序号	Test item 检测项目	Stand requirement or the clause number of standard 标准要求或标准条款号	Test result 测试结果	Test conclusion 本项结论	Remark 备注
1	Overcharge 过度充电	UN "Manual of Tests and Criteria" ST/SG/AC.10/11/Rev.7/Amend.1 section 38.3(g) 联合国《试验和标准手册》 （第7修订版 修正1） 第38.3节(g)	See Appendix 1 见附表1	Passed 合格	--
2	Short circuits 短路		See Appendix 1 见附表1	Passed 合格	--
3	Over discharge between the batteries 电池组之间过度放电		See Appendix 1 见附表1	Passed 合格	--
Test environment Condition 测试环境		Ambient temperature: 25°C ± 5°C, Ambient humidity: 45%-75% 环境温度: 25°C ± 5°C; 环境湿度: 45%-75%			

Clause 条款	Requirement + Test 要求+测试方法
38.3.3(f)	<p>When testing a battery assembly in which the aggregate lithium content of all anodes when fully charged, is not more than 500g, or in the case of a lithium battery, with a Watt-hour rating of not more than 6200Wh, that is assembled from batteries that have passed all applicable tests, one assembled battery in a fully charged state shall be tested under tests T3, T4 and T5, and in addition, test T7 in the case of a rechargeable battery.</p> <p>当试验集成电池时，如果集成电池在完全充电时所有阳极的合计锂含量不大于 500g，或在锂离子电池组的情况下，额定瓦特-小时不超过 6200Wh 时，并且是用通过所有试验的电池集合而成的，须对一个完全充电状态的集成电池做试验 T.3、T.4 和 T5，另外，如果是可充电电池，则还需进行 T.7 试验。</p>
38.3.3(g)	<p>When batteries that have passed all applicable tests are electrically connected to form battery in which the aggregate lithium content of all anodes, when fully charged more than 500g, or in the case of a lithium ion battery, with a Watt-hour rating of more than 6200Wh, the assembled battery does not need to be tested if the assembled battery is of a type that has been verified as preventing:</p> <ul style="list-style-type: none">- Overcharge;- Short circuits; and- Over discharge between the batteries. <p>对于已通过所有适用试验的若干电池组成的集成电池，如在完全充电时所有阳极的总锂含量超过 500g，或在锂离子电池的情况下，如额定的瓦特-小时数超过 6200Wh 时，当集成电池如经过验证属于可防止下列情况，即无需进行试验：</p> <ul style="list-style-type: none">- 过度充电；- 短路；和- 电池之间的过放电。

附表1
Appendix 1

Sample status 样品状态	one functional assembled battery; 一个功能正常的集成电池组;	
Test item 检测项目	Requirement of test 测试要求	Test result 测试结果
Overcharge 过度充电	Verify overcharge protection according to the manufacturer's charging method. 按照制造商规定的充电方法,验证过度充电保护功能。	Pass 合格
Short circuits 短路	Fully charged according to the charging method specified by the manufacturer. The battery shall be subjected to a short circuit condition with a total external resistance of less than 0.1 ohm. Verify short circuit protection. 按照制造商规定的充电方法充满电,使电池组经受总外电阻小于0.1Ω的短路条件,验证短路保护功能。	Pass 合格
Over discharge between the batteries 电池组之间过度放电	Verify over discharge protection according to the manufacturer's discharging method. 按照制造商规定的放电方法,验证过度放电保护功能。	Pass 合格

Photos of Samples 样品照片



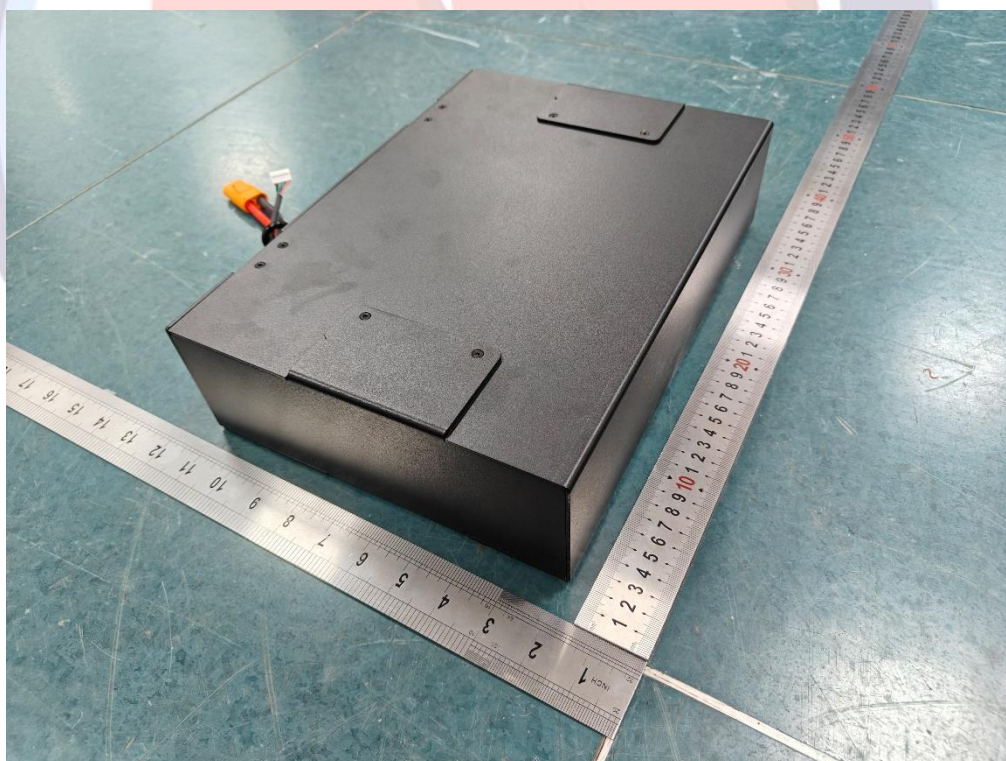
Picture 1. Front view of battery
图片 1. 电池组前视图



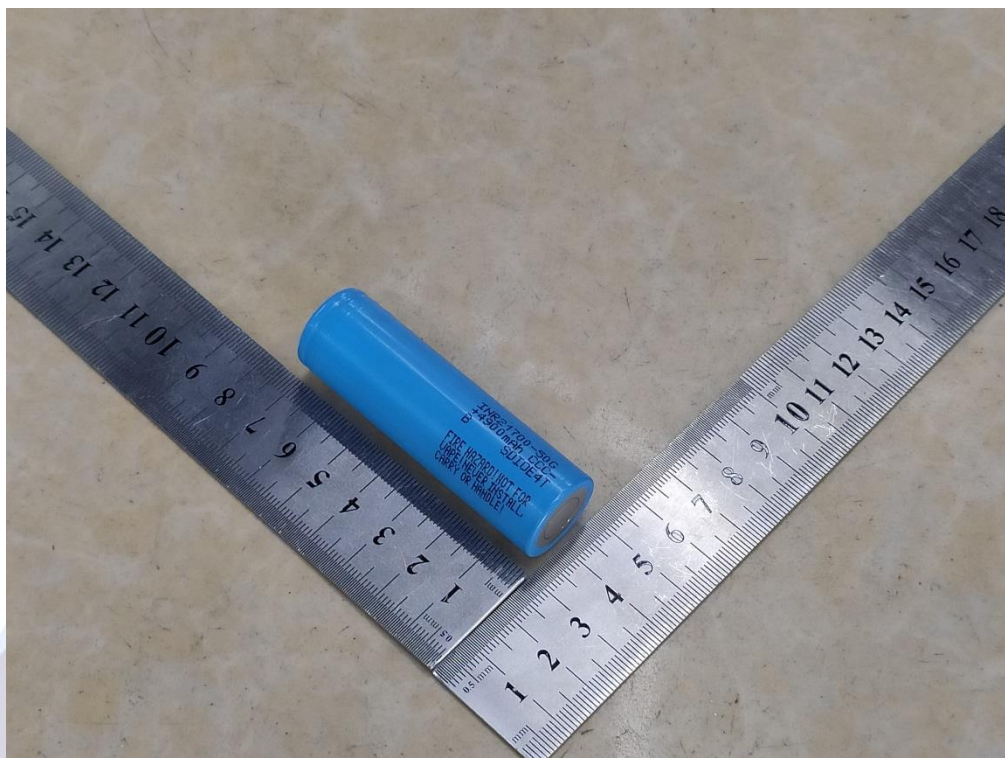
Picture 2. Back view of battery
图片 2. 电池组后视图



Picture 3. Front view of battery
图片 3. 电池组前视图



Picture 4. Back view of battery
图片 4. 电池组后视图



Picture 5. Front view of cell
图片 5. 电池前视图



Picture 6. Label view
图片 6. 标签视图

Important 注意事项

1. The test report is invalid if it is not affixed the official seal of the laboratory to it.
检测报告无本实验室公章（或检验检测专用章）无效。
2. Copies of the test report without the official seal of the laboratory are invalid.
复制检测报告未重新加盖本实验室公章(或检验检测专用章)无效。
3. It is forbidden to copy the test report partially without the written approval of the laboratory.
未经本实验室书面批准不得部分复制检测报告。
4. The test report is invalid without the signatures of Approver, Reviewer and Testing engineer.
检测报告无检测、审核、批准人签名无效。
5. The test report is invalid if it is blotted out.
检测报告涂改无效。
6. Objections to the test report must be submitted to CMC Testing International (Shenzhen) Co., Ltd. within 15 days.
对检测报告若有异议，应于收到报告之日起十五天内向众检检验认证（深圳）有限公司提出。
7. The test report is valid for the tested samples only.
本检测报告仅对检测样品负责。
8. As for the Verdict, "--" means "no need for judgment", "P" means "pass", "F" means "fail" and "N/A" means "not applicable".
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”。

*** End of Report ***

*** 报告结束 ***

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