

UN38.3 检测报告

UN38.3 TEST REPORT

委托单位名称 Client Name	大秦数字能源技术股份有限公司 DYNESS DIGITAL ENERGY TECHNOLOGY CO., LTD.
产品名称 Name of product	可充电锂离子电池系统 Rechargeable Li-ion Battery System
制造厂商 Manufacturer	广东大秦数字能源技术有限公司 Guangdong Daqin Digital Energy Technology Co., Ltd.
商标型号 Trade mark & model	DH200F-C260
检测类别 Test sort	委托试验 Safety Entrust Test



中检集团南方测试股份有限公司

CCIC Southern Testing Co., Ltd.

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Address: Electronic Testing Building, No.43, Shahe Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China

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报告查询邮箱/Report query E-Mail: manager@ccic-set.com

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中检集团南方测试股份有限公司

CCIC Southern Testing CO., Ltd.

检测报告

TEST REPORT

样品名称 Name of sample	可充电锂离子电池系统 Rechargeable Li-ion Battery System		商标 Trade mark	--	
制造厂商 Manufacturer	广东大秦数字能源技术有限公司 Guangdong Daqin Digital Energy Technology Co., Ltd.		型号规格 Model/Type	DH200F-C260 (内部模组型号: HV64314F) (内部电池单体型号: LP71173207-314Ah)	
委托单位及地址 Client/Address	大秦数字能源技术股份有限公司 DYNESS DIGITAL ENERGY TECHNOLOGY CO., LTD. 江苏省苏州市吴中区城南街道南湖路 56-58 号融新产业园二期 1#2#整栋、3#楼 7F-8F Building 1&2, 7th - 8th Floors, Building 3, No. 56-58 Nanhua Road, Chengnan Subdistrict, Wuzhong District, Suzhou City, Jiangsu Province		取样方式 Sampling method	委托单位送样 Sent by client	
送检日期 Application date	2026.03.17		检测日期 Test Date	2026.03.18-2026.03.20	
样品数量 Quantity of samples	1 个储能系统 1 Energy storage system		检验环境 Environment condition	20±5℃ ≤75%RH	
标称电压 Nominal voltage (cell/module/system)	3.2V/64V/ 832V	充电限制电压 Limited Charge Voltage (cell/module/system)	3.65V/73V/ 936V	额定能量/ 容量 Rate Energy/ Capacity (cell/module/system)	1004.8Wh/314Ah 20.096kWh/314Ah 261kWh/314Ah
标准充电电流 Standard charge Current (cell/module/system)	157A/157A/ 157A	最大充电电流 Max. Charge Current (cell/module/system)	314A/200A/ 180A	充电截止 电流 End Charge Current (cell/module)	15.7A
放电截止电压 Cut-off Voltage (cell/module/system)	2.5V/54V/ 754V	最大放电电流 Max Discharge Current (cell/module/system)	314A/200A/ 180A	电池数量 Component cells Number	260PCS (20S1P)*13
外观 Appearance	白色长方体 White Cuboid	尺寸 size	2000*1346* 2200mm	质量 Mass	大约 2900kg
检测活动地点 Testing location		广东省东莞市洪梅镇望沙路洪梅段 125 号 1 号楼 Building 1, No. 125, Hongmei Section, Wangsha Road, Hongmei Town, Dongguan City, Guangdong Province			
检验项目(Test item): UN38.3.3(g): 电池组件保护功能验证 Verification of the assembled battery's protection equipment (过度充电 Overcharge、短路 Short circuits、电池组之间过度放电 Over discharge between the batteries)					
检测依据(Reference documents): 联合国《试验和标准手册》第八修订版第 38.3 节 ST/SG/AC.10/11/Rev.8 UN38.3 UNITED NATIONS Manual of Tests and Criteria (ST/SG/AC.10/11/Rev.8 Section 38.3)					

检测概况(Summary):

对电池或电池组进行了 38.3.4.1 至 38.3.4.8 项试验, 试验 38.3.4.1 至 38.3.4.5 按顺序进行, 使用相同电池或电池组, 试验 38.3.4.6 至 38.3.4.8 使用未另外试验过的电池或电池组。

Each Cell/battery type is subjected to tests 38.3.4.1 to 38.3.4.8, Tests 38.3.4.1 to 38.3.4.5 are conducted in sequence on the same Cells/batteries, Tests 38.3.4.6 to 38.3.4.8 are conducted using not otherwise tested Cells/batteries.

$$\text{质量损失 Mass loss}\%=(M_1-M_2)/M_1\times 100$$

式中: M_1 是实验前的质量, M_2 是试验后的质量, 如果质量损失不超过表 38.3.1 所列的数值, 视为“无质量损失”。

Where M_1 is the mass before the test and M_2 is the mass after the test. When mass loss does not exceed the values in Table 38.3.1, it shall be considered as "no mass loss".

Mass M of cell or battery	Mass loss limit
$M < 1\text{g}$	0.5%
$1\text{g} \leq M \leq 75\text{g}$	0.2%
$M > 75\text{g}$	0.1%

试验 38.3.4.1 至 38.3.4.4 如果电池组无渗漏、无排气、无解体、无破裂和无起火, 并且每个试验电池组在试验后的开路电压不小于其在进行这一试验前电压的 90%则认为符合要求。

In test 38.3.4.1 to 38.3.4.4 batteries meet this requirement if there is no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test battery after testing is not less than 90% of its voltage immediately prior to this procedure.

备注 (Remark):

可充电锂离子电池系统(DH200F-C260 832V 314Ah 261kWh), 超过 6.2kWh, 由 13 个型号为 HV64314F (64V 314Ah 20.096kWh) 的磷酸铁锂电池组串联而成。该电池组件内部电池组已通过 UN38.3 测试, 报告编号为 SET-20251206W32948;

Rechargeable Li-ion Battery System(DH200F-C260 832V 314Ah 261kWh), with an energy capacity exceeding 6.2kWh, is composed of 13 LFP Lithium Ion Battery of model HV64314F (64V 314Ah 20.096kWh) connected in series.

针对可充电锂离子电池系统, 对其内部是否装有能够防止过度充电、短路、电池组之间过度放电的装置进行验证, 样品编号: 20260306W09664 -S1。

A verification was conducted on the Rechargeable Li-ion Battery System to confirm whether it is internally equipped with protective devices against overcharge, short circuits and over discharge between the batteries.



检测结论(Test conclusion): 测试样品符合联合国《试验和标准手册》第八修订版第 38.3 节 ST/SG/AC.10/11/Rev.8 UN38.3。 The test samples comply with UNITED NATIONS <i>Manual of Tests and Criteria</i> (ST/SG/AC.10/11/Rev.8 Section 38.3) . (检测单位盖章 stamp) 签发日期: 2026 年 05 月 09 日			
检 测: Tested by		日期 Date	2026 年 05 月 09 日
审 核: Reviewed by		日期 Date	2026 年 05 月 09 日
批 准: Approved by		日期 Date	2026 年 05 月 09 日



测试结果 Test results:

38.3.3(g) 电池组件保护功能验证 Verification of the assembled battery's protection equipment

过度充电 Overcharge

测试方法 Test method:

按照制造商推荐的电流对电池组件进行恒流充电;

The assembled battery is charged using the current specified by the manufacturer;

观察电池组件的保护功能是否动作。

The protective device shall be observed whether it works

短路 Short circuits

测试方法 Test method:

按照与制造商商定的短路内阻用连接线短路电池组件的正负极

The assembled battery is subjected to one short circuit condition with a external resistance agreed with the manufacturer;

观察电池组件的保护功能是否动作。

The protective device shall be observed whether it works.

电池组之间过度放电 Over discharge between the batteries

测试方法 Test method:

按照制造商推荐的电流对电池组件进行恒流放电;

The assembled battery is discharged using the current specified by the manufacturer;

观察电池组件的保护功能是否动作。

The protective device shall be observed whether it works.

要求 Requirement:

电池组件应装有相应的保护装置。

Equipped with a protective device

测试数据如下表 Test Date showed in table below;

样品编号	试验项目 Test Item	试验参数 Test Parameter	判定 Status
20260306W 09664 -S1	过度充电 Overcharge	充电电流: 157A	PASS
	短路 Short circuits	短路电阻: 5.5mΩ	PASS
	电池组之间过度放电 Over discharge between the batteries	放电电流: 157A	PASS

样品照片 Photo document



图片 Photo 1



图片 Photo 2

样品照片 Photo document



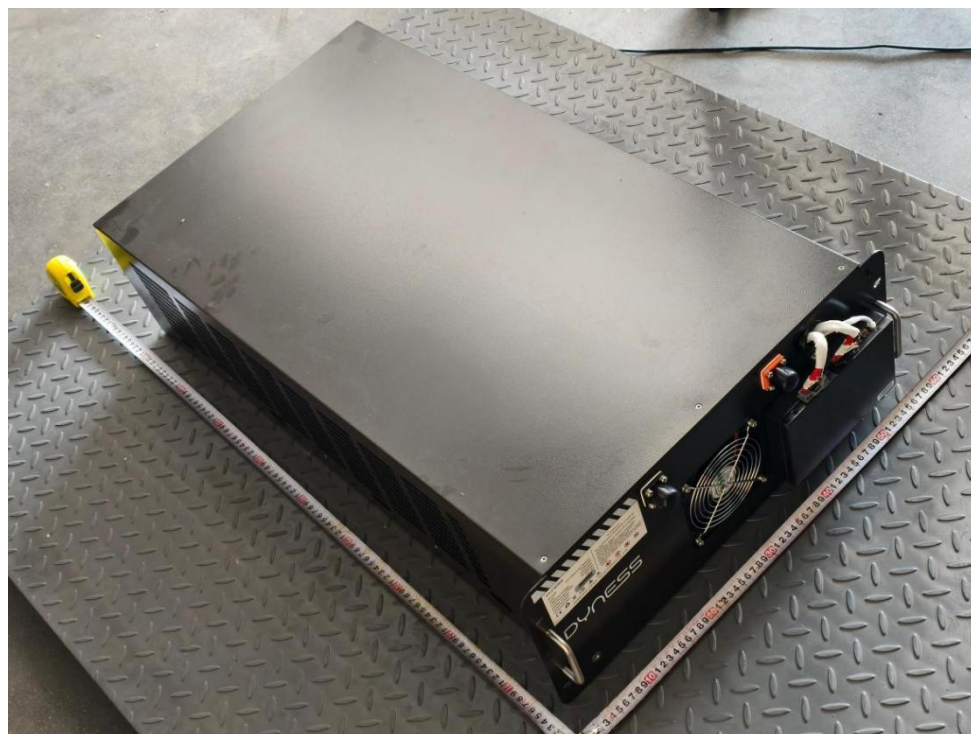
图片 Photo 3



图片 Photo 4

DYNES		IFpP72/175/208/[(20S)13S]M/-20+50/95 NO:	
Model	☐ DH200F-C260		
Product	Rechargeable Li-ion Battery System		
Battery Parameter			
Battery Type	LiFePO ₄		
Nominal Capacity	314Ah		
DC Nominal Voltage	832Vdc		
DC Voltage Range	754~936Vdc		
Max.Charging/Discharging Current	180A		
Nominal Energy	261kWh		
System			
Dimention(W*D*H)	2000*1346*2200mm		
Weight	2900±100kg		
Operating Temperature	-20℃~50℃		
Protective Class	I		
Ingress Protective	IP55		
		CE       	
www.dyness.com ynness Digital Energy Technology Co., LTD. Made in China			

图片 Photo 5

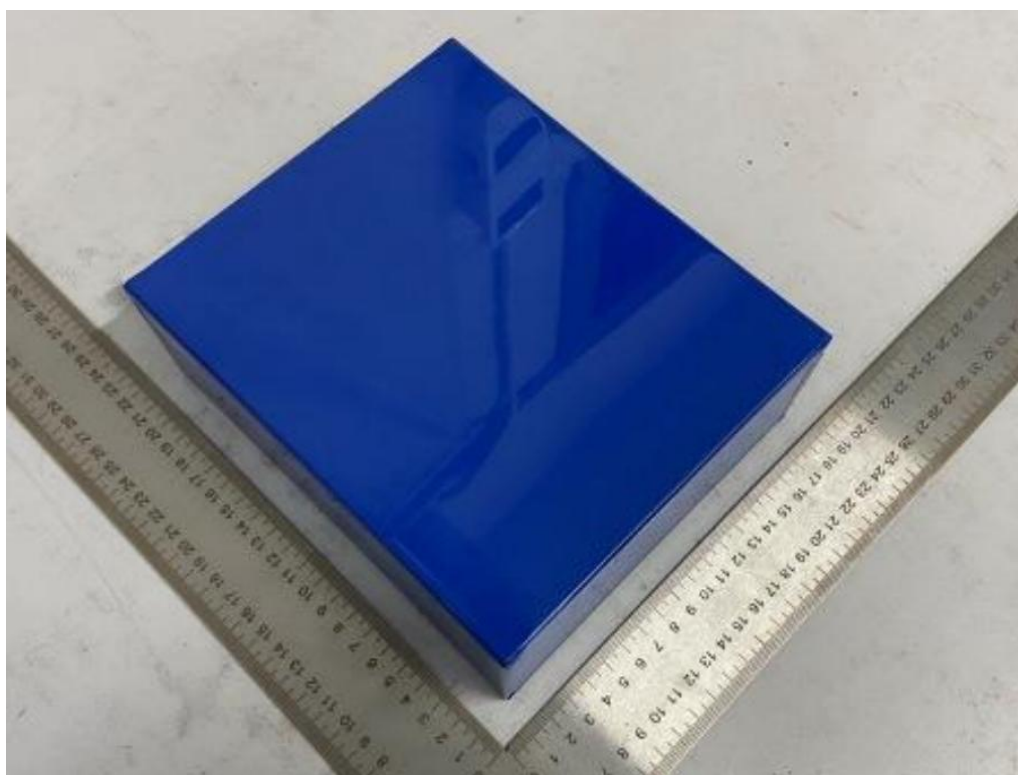


图片 Photo 6

样品照片 Photo document



图片 Photo 7



图片 Photo 8

试验仪器设备清单

序号	名称	型号	编号	校准有效期至	本次使用(√)
1	星云动力电池组工况模拟测试系统	NEH600100060002-V004	B241200022	2027/01/11	√
2	手持式数字万用表	U1241C	A211003881	2026/10/22	√
3	电池短路试验机	RJD-DL-RT-15000A	A220603923	2026/05/25	√
4	直流低电阻测试仪	PH2512	C240800763	2026/08/19	√

注：以上仪器设备在计量检定周期内。

***** 报告结束 END OF REPORT *****



声明

STATEMENT

1. 报告未加盖“检验检测专用章”无效。

The test report is invalid without stamp of laboratory.

2. 报告无检测、批准人员签字无效。

The test report is invalid without signature of person(s) testing and authorizing.

3. 报告涂改无效。

The test report is invalid if erased and corrected.

4. 报告中的检测数据及结果仅适用于受测样品。

The test data and results presented in the report are applicable only to the tested samples.

5. “☆”项目未通过 CNAS 认可。

“☆” item to be outside the scope of authorized by CNAS.

6. 未加盖资质认定标志的报告，不具有对社会的证明作用。

The report without the“CMA”stamp shall not have a certifying effect on the society.

7. 未经本实验室书面同意，不得部分地复制本报告。

The test report shall not be reproduced except in full, without written approval of the laboratory.

8. 如对本报告有异议，可在收到报告后 15 天内向本单位申诉，逾期不予受理。

If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

9. 委托送检的样品信息由委托方提供，本实验室不对其真实性及完整性负责。

The information of the samples submitted for testing on commission is provided by the client. This laboratory assumes no responsibility for the authenticity and completeness of such information.