中国认可
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CNAS L5772

UN38.3 测试报告

UN38.3 Test Report

报告编号 Report No.	PTC25092514001B-LD01
样品名称及型号	可充电锂离子电池系统 PrimePower--109kWh
Sample Name &Model	RECHARGEABLE LI-ION BATTERY SYSTEM PrimePower--109kWh
委托单位	锦浪储能有限公司
Consignor	Ginlong Energy Storage Co., Ltd.

精准通检测认证（广东）有限公司

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制造商地址 Manufacturer's address	浙江省宁波市象山县东陈乡滨海工业园金通路 57 号 315712 No.57 Jintong Road, Binhai lndustrial Park, DongChen, Xiangshan, 315712 Ningbo, Zhejiang, PEOPLE'S REPUBLIC OF CHINA
生产厂 Manufacturer	福建时代星云科技有限公司 Contemporary Nebula Technology Energy Co., Ltd
生产厂地址 Manufacturer's address	福建省福州市马尾区兴业西路 33 号（自贸试验区内） No. 33 Xingyexi Road, Mawei District, Fuzhou City, Fujian Province 电话/Tel: 15059489355　　邮箱/Mail: wei00896.lin@cntepower.com 网址/Website: www.cntepower.com
样品名称 Sample Name	可充电锂离子电池系统 RECHARGEABLE LI-ION BATTERY SYSTEM
样品型号 Sample Model	PrimePower--109kWh
样品外观 Appearance	白色近长方体，尺寸: 950*1356.8*2070mm White almost Cuboid, size: 950*1356.8*2070mm
测试方法和判定标准 Test method and criterion	联合国《试验和标准手册》（第七修订版修正 1）38.3 节 UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 Amend.1/Subsection 38.3
样品接收日期 Accepted date	2025.08.19
测试起讫日期 Test date	2025.08.20～2025.09.25
测试项目 Test items	过度充电、短路、电池组之间过度放电。 Overcharge, Short circuit, Over discharge between the batteries
测试结论 Conclusion	检验结论 Test conclusion： 由锦浪储能有限公司送检的可充电锂离子电池系统，根据联合国《试验和标准手册》（第七修订版修正 1）38.3 节进行检测。 The RECHARGEABLE LI-ION BATTERY SYSTEM submitted by Ginlong Energy Storage Co., Ltd. are tested according to UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 Amend.1/Subsection 38.3. 检验结果：通过 Test result: Pass　　签发日期(Issue date)：2025.09.26
备注 Remark	该可充电锂离子电池系统的额定能量超过 6200Wh，由 7 个锂离子电池模组以电路连接而成，锂离子电池模组已通过 UN38.3 测试（报告编号：PTC25092514002B-LD01）。 The RECHARGEABLE LI-ION BATTERY SYSTEM was rated energy more than 6200W and formed by electrically conected 7 pcs modules, the LITHIUM ION BATTERIES MODULE 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.: PTC25092514002B-LD01).

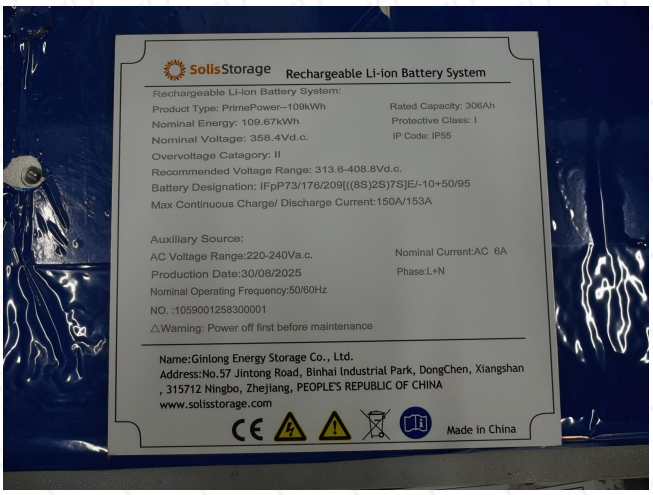
主检 Tested by:		审核 Checked by:		批准 Approved by:	

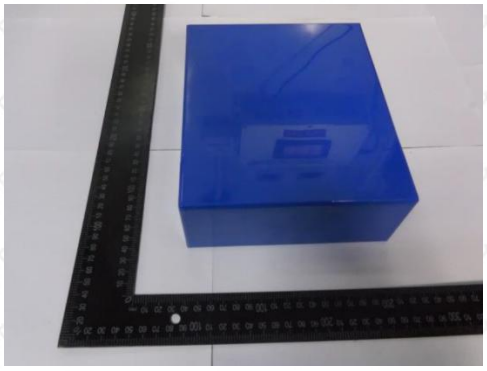
参数信息 Parameter information	
产品 Product	电池 Battery
型号 Model	PrimePower--109kWh
标称电压 Nominal Voltage	358.4V
额定容量 Rated Capacity	306Ah (109.67kWh)
充电限制电压 Limited Charge Voltage	408.8V
标准充电电流 Standard Charge Current	150A
标准放电电流 Standard Discharge Current	153A
最大充电电流 Max Charge Current	150A
最大放电电流 Max Discharge Current	153A
充电截止电流 End Charge Current	15.3A
终止电压 Cut-off Voltage	280V
质量 Mass	1400kg
电池组组合方式 Battery Pack Combination	该可充电锂离子电池系统由 7 个锂离子电池模组组成， 1 个锂离子电池模组由 16 个电芯（16S1P）组成， 总共 112 个锂离子电池组

序号 No.	测试项目名称 Name of test	标准要求或标准条款号 Standard requirement or the clause number of standard	测试结果 Test result	本项结论 Test conclusion	备注 Remarks
1	过度充电 Overcharge	联合国《试验和标准手册》（第七修订版修正 1）38.3.3(g) UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 Amend.1/Subsection 38.3.3(g)	见附表 1 See Appendix 1	合格 Passed	/
2	短路 Short circuit	联合国《试验和标准手册》（第七修订版修正 1）38.3.3(g) UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 Amend.1/Subsection 38.3.3(g)	见附表 1 See Appendix 1	合格 Passed	/
3	电池组之间过度放电 Over discharge between the batteries	联合国《试验和标准手册》（第七修订版修正 1）38.3.3(g) UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 Amend.1/Subsection 38.3.3(g)	见附表 1 See Appendix 1	合格 Passed	/
测试环境条件 Test environment condition		环境温度：20℃-25℃；环境湿度：45%-75% Ambient temperature: 20℃-25℃; Ambient humidity: 45%-75%			

附 表 1 Appendix 1		
样品状态 Sample status	Pack 1#：一个功能正常的锂离子动力电池系统； Pack 1#：One functional Li-ion Battery System;	
测试项目名称 Name of test	测试要求 Requirement of test	测试结果 Test result
过度充电 Overcharge	按照制造商规定的充电方法,验证过度充电保护功能。 Verify overcharge protection according to the manufacturer's charging method.	Pass
短路 Short circuit	按照制造商规定的充电放电充满电，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。 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.	Pass
电池组之间过度放电 Over discharge between the batteries	按照制造商规定的放电方法，验证过度放电保护功能。 Verify over discharge protection according to the manufacturer's discharging method.	Pass

样 品 图 片 Sample Photo





注意事项

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本报告书无批准人、审核人、及主检人签名无效。

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6. The test report is valid for the tested samples only.

本报告仅对本次测试样品有效。

7. The Chinese contents in this report are only for reference.

本报告中的中文内容仅供参考。

8. Objections to the test report must be submitted to PTC within 15 days.

对报告书若有异议，应于收到报告之日起 15 天内向本公司提出。

End of report