



中国认可
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检测
TESTING
CNAS L13261

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Report No.: KS2509S4620B01

UN38.3 Test Report

Samples Name Liquid-Cooled Energy Storage Cabinet

样品名称 液冷储能柜

Model

型号

OLP_EB_V1332_E418_LO01

Applicant

委托单位

Shenzhen OLiPower Energy and Automation Technology Co.,Ltd

深圳市欧力普能源与自动化技术有限公司



广东科正技术服务有限公司
KSIGN(Guangdong) Testing Co., Ltd.

TRF No. UN38.3 Rev.8-R4

West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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General Information 基本资料			
Sample Name 样品名称	Liquid-Cooled Energy Storage Cabinet 液冷储能柜	Model Name 型号	OLP_EB_V1332_E418_LO01
Battery Module Model 电池模组型号	RK166314-1P52S	Sample Status 样品状态	Good 良好
Applicant 委托单位	Shenzhen OLiPower Energy and Automation Technology Co.,Ltd 深圳市欧力普能源与自动化技术有限公司		
Applicant Address 委托单位地址	1001, Block A, Building 2, SEZ ConstrutionWisdom Park, No. 380 Guangming Avenue,Tangwei Community, Fenghuang Street.Guangming District, Shenzhen City, Guangdong Province 广东省深圳市光明区凤凰街道塘尾社区光明大道 380 号尚智科技园 2 栋 A 座 1001		
Factory 生产工厂	Dongguan Olipower New Energy Co., Ltd. 东莞欧力普新能源有限公司		
Factory Address 生产工厂地址	No. 2 Qianmei Road, Dongkeng Town, Dongguan City, Guangdong Province, PRC. 广东省东莞市东坑镇兼梅路 2 号		
Test Method & Criterion 检验方法及判定标准	UN "Manual of Tests and Criteria" ST/SG/AC.10/11/Rev.8/Subsection 38.3 联合国《试验和标准手册》（第八版）38.3 节		
Testing Laboratory 检测单位	KSIGN(Guangdong) Testing Co., Ltd. 广东科正技术服务有限公司 West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China 广东省深圳市宝安区沙井街道沙头社区民主九九工业区福源厂新厂房A区C栋一层西侧, 518104		
Sample Receiving Date 收样接收日期	2025 年 10 月 13 日	Test Date 测试日期	2025 年 10 月 14 日至 2025 年 10 月 20 日
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。		
Conclusion 测试结论	The samples has passed the test items of UN "Manual of Tests and Criteria" ST/SG/AC.10/11/Rev.8/Subsection 38.3. 受检样品通过联合国《试验和标准手册》（第八版）38.3 节相关要求，检测结果合格。 Seal/签章: Date of issue/签发日期: 2025 年 10 月 22 日		
Remark 备注	The assembled battery (Liquid-Cooled Energy Storage Cabinet) has a rated watt-hour rating of over 6200Wh and consists of 8 battery modules that have passed the UN38.3 test (Report No.: KS2503S1082B01). 该集成电池组（液冷储能柜）的额定瓦特-小时数超过 6200Wh，由 8 个电池模组组成，电池模组已通过 UN38.3 测试（报告编号：KS2503S1082B01）。		
主检/Tested By: 陈禧/Chance Chen 测试工程师 Test Engineer	陈禧 Chance chen	审核/Checker: 姚少波/ Bob Yao 项目工程师 Project Engineer	批准/Approver: 杨龙/ Sam Yang 技术负责人 Technical Director

The assembled battery information:**集成电池组信息:**

Battery type 电池类型	Lithium ion battery 锂离子电池	Rated Voltage 额定电压	1331.2V
Rated Capacity 额定容量	314Ah	Total Energy 总能量	418kWh
Limited Charge Voltage 充电限制电压	1497.6V	Standard Charge Current 标准充电电流	157A
Maximum Charge Current 最大充电电流	180A	Standard Discharge Current 标准放电电流	157A
Maximum Discharge Current 最大放电电流	180A	Discharge Cut-off Voltage 放电截止电压	1040V
Mass 重量	Appr.: 3800.0kg	Dimension 尺寸(W*D*H)	1380.0*1410.0*2280.0 (mm)
Cell Quantity 电芯数量	416PCS	Appearance & Odor 样品外观与性状	White Cuboid 白色长方体
Cell Capacity 电芯容量	314Ah	Cell Model 电芯型号	EC-AU314-CLH3L7
Cell Combination 内部电芯组合方式	1P416S		

Test Summary Lists

测试摘要列表

No. 序号	Name of test 测试项目名称	Reference Standard No. 参考标准号	Sample No. 样品编号	Test Methods 测试方法	Test Results 测试结果
1	Overcharge 过度充电	UN "Manual of Tests and Criteria" ST/SG/AC.10/11/Rev.8/Subsection 38.3.3.1(g) 联合国《试验和标准手册》（第八版）第38.3.3.1(g)	Pack 01#	See Appendix 1 见附表 1	Passed 合格
2	Short circuits 短路	UN "Manual of Tests and Criteria" ST/SG/AC.10/11/Rev.8/Subsection 38.3.3.1(g) 联合国《试验和标准手册》（第八版）第38.3.3.1(g)	Pack 01#	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	UN "Manual of Tests and Criteria" ST/SG/AC.10/11/Rev.8/Subsection 38.3.3.1(g) 联合国《试验和标准手册》（第八版）第38.3.3.1(g)	Pack 01#	See Appendix 1 见附表 1	Passed 合格
Test environment condition 测试环境		Ambient temperature: 20°C-25°C, Ambient humidity: 45%-75% 环境温度：20°C-25°C；环境湿度：45%-75%			

Appendix 1

附表 1

Name of test 测试项目名称	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

样品图片



Liquid-Cooled Energy Storage Cabinet

Name	OLP_EB_V1332_E418_LO01
Battery Type	LiFePO ₄
Cell capacity	LFP3.2V/ 314 Ah
Grouping Method	1P416S
Rated Battery Capacity	314Ah 418kWh
Rated Battery Voltage	1331.2Vdc
Battery Operation Voltage Range	1164.8 - 1518.4 Vdc
Standard Charge/Discharge Current	157A/157A
Discharging Temperature	-20~55℃
Charging Temperature	0~55℃
Relative Humidity	0~95 % (non-condensing)
Fire Protection	Heat Detector/Smoke Detector/Aerosol
IP Grade	IP54
Altitude	≤3000m
Dimension (W×D×H)	1380×1410×2280mm
Weight	≈3800kg
Battery Parameter Coding	IFpP73/176/208/[(52S)8S]M/-10+50/95
Production Date	2025/09
Importer's Name	
Contract Address	

ADDR: OLiPower Industrial Park QianMei Road, Chukeng,
Dongkeng District,Dongguan City, Guangdong
Province, P.R.China
OLiPower Energy & Automation Technology

Figure 1
(Assembled Battery 集成电池组)

Photos of samples
样品图片



Figure 2
(Battery Module 电池模组)



Figure 3
(Inner Cell 内部电芯)

Statement 声明

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对于需要根据测试值做符合性判定的情况, 如所使用的法规、标准、技术规范无相关判定规则要求或客户无相关要求时, 本实验室出具的检测报告参考 ILAC-G8:09/2019、CNAS-GL015: 2022 采用简单接受的判定规则进行结果判定。

检测单位: 广东科正技术服务有限公司

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