



中国认可  
国际互认  
检测  
TESTING  
CNAS L13261

Report No.: KS2505S2224B01

# UN38.3 Test Report

**Samples Name** Liquid-cooled energy storage cabinet

**样品名称** 液冷储能一体柜

**Model**

OLP-EIB-V832\_E261\_P125-LO08

**型号**

**Applicant**

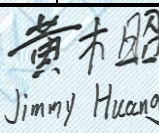
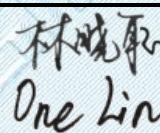
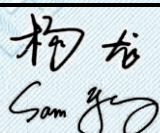
Shenzhen OLiPower Energy and Automation Technology Co.,Ltd

**委托单位**

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.

<b>General Information</b> <b>基本资料</b>			
<b>Sample Name</b> 样品名称	Liquid-cooled energy storage cabinet 液冷储能一体柜	<b>Model Name</b> 型号	OLP-EIB-V832_E261_P125-LO08
<b>Battery Module Model</b> 电池模组型号	RK166314-1P52S	<b>Sample Status</b> 样品状态	Good 良好
<b>Applicant</b> 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		
<b>Applicant Address</b> 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		
<b>Factory</b> 生产工厂	Dongguan Olipower New Energy Co., Ltd. 东莞欧力普新能源有限公司		
<b>Factory Address</b> 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		
<b>Test Method &amp; Criterion</b> 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		
<b>Testing Laboratory</b> 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		
<b>Sample Receiving Date</b> 收样接收日期	2025 年 05 月 12 日	<b>Test Date</b> 测试日期	2025 年 05 月 16 日至 2025 年 05 月 23 日
<b>Test items</b> 测试项目	38.3.3(g) Overcharge, Short circuit, Over discharge between the batteries. 过度充电、短路、电池组之间过度放电。		
<b>Conclusion</b> 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。  <b>Seal/签章:</b> <b>Date of issue/签发日期:</b> 2025 年 05 月 26 日		
<b>Remark</b> 备注	The assembled battery (Liquid-cooled energy storage cabinet) has a rated watt-hour rating of over 6200Wh and consists of 5 battery modules that have passed the UN38.3 test (Report No.: KS2503S1082B01). 该集成电池组（液冷储能一体柜）的额定瓦特-小时数超过 6200Wh，由 5 个电池模组组成，电池模组已通过 UN38.3 测试（报告编号：KS2503S1082B01）。		
<b>主检/Tested By:</b> 黄木昭/Jimmy Huang 测试工程师 Test Engineer	 Jimmy Huang	<b>审核/Checker:</b> 林晓聪/ One Lin 项目工程师 Project Engineer	 One Lin
		<b>批准/Approver:</b> 杨龙/ Sam Yang 技术负责人 Technical Director	 Sam Yang

**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	832V
Rated Capacity 额定容量	314Ah	Total Energy 总能量	261kWh
Limited Charge Voltage 充电限制电压	949V	Standard Charge Current 标准充电电流	157A
Maximum Charge Current 最大充电电流	200A	Standard Discharge Current 标准放电电流	157A
Maximum Discharge Current 最大放电电流	200A	Discharge Cut-off Voltage 放电截止电压	728V
Mass 重量	Appr.: 2470.0kg	Dimension 尺寸(W*D*H)	1000.0*1440.0*2460.0 (mm)
Cell Quantity 电芯数量	260PCS	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	1P260S		

## 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(g) 联合国《试验和标准手册》（第八版）第38.3.3(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(g) 联合国《试验和标准手册》（第八版）第38.3.3(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(g) 联合国《试验和标准手册》（第八版）第38.3.3(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



Olp-EIB-V832\_E261\_P125-LO08

**OliPower**

名称	凌冷储能一体柜
电池类型	LiFePO <sub>4</sub>
电芯容量	3.2V/314Ah
成组方式	1P260S
系统电量	261kWh
额定电压	832Vdc
工作电压范围	728-949Vdc
额定交流电压	400Vac, 3P+N+PE
额定频率	50Hz
额定交流功率	125kW
额定交流电流	150A
工作温度范围	-20℃ - +55℃
消防安全	复合探测、防爆、排风、水喷淋、全氟已酮
防护等级	IP54
应用海拔	≤3000 m
尺寸(W*D*H)	1000*1440*2460mm
重量	2470kg

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(欧力普产业园)

深圳市欧力普能源与自动化技术有限公司

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

1. The results are valid only for the samples submitted.  
检测结论仅对送检样品有效;
2. The report is invalid without the "APPROVED Seal" and the "Riding Seam Seal".  
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