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Add.: Tower B, No.66 Huacheng Avenue, Zhujiang Xincheng, Tianhe District, Guangzhou, Guangdong, P.R.C.  
电话Tel: 020-22131000 邮箱Email: ppdc@iqtcnet.cn 网址Website: <https://www.iqtcnet.cn>

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Date: 2025-02-07  
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## UN38.3 报告

### UN38.3 Test Report

样品名称: M-Battery

Sample Name: M-Battery

委托单位: 上海摩瓦新能源科技有限公司

Applicant: Shanghai Moorewatt Energy Technology Co., Ltd



提取码: 014012

验证平台:

<https://css.iqtcnet.cn>

GUANGZHOU CUSTOMS DISTRICT TECHNOLOGY CENTER

广州海关技术中心

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### 检测证书 TEST REPORT

样品名称 Sample Name	M-Battery	
型号 Model	MS-7K-U	
内含电池组型号 Batteries Model	MS-1P4S-280-M0	
委托单位 Applicant	上海摩瓦新能源科技有限公司 Shanghai Moorewatt Energy Technology Co., Ltd	
委托单位地址 Applicant Address	中国(上海)自由贸易试验区华益路76号4幢104-108室 Room 104-108, Building 4, No. 76 Huayi Road, China (Shanghai) Pilot Free Trade Zone, Shanghai	
生产单位 Manufacturer	绵阳虹源科技发展有限公司 Mianyang Hongyuan Technology Development Co., Ltd.	
生产单位地址 Manufacturer Address	四川省绵阳市经开区三江大道519号5栋 Building 5, No. 519 Sanjiang Avenue, Mianyang Economic and Technological Development Zone, Sichuan Province	
样品外观与性状 Appearance & Odor	白色外壳 White shell	
测试方法和判定标准 Test method and criterion	联合国《关于危险货物运输的建议书 试验和标准手册》ST/SG/AC.10/11/Rev.8, 38.3 UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS", Manual of Tests and Criteria ST/SG/AC.10/11/Rev.8, 38.3	
接样时间 Accepted date	2025-01-21	测试日期 Test date
		2025-01-21~2025-01-23
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.	
结论 Conclusion	经测试, 该样品符合联合国《关于危险货物运输的建议书 试验和标准手册》ST/SG/AC.10/11/Rev.8, 38.3 标准要求。 The sample has passed the test items of UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS", Manual of Test and Criteria ST/SG/AC.10/11/Rev.8, 38.3.	
备注 Remark	1.该集成电池组的额定瓦特-小时数超过6200Wh, 由若干锂离子电池组以电路连接而成, 锂离子电池组已通过UN38.3测试(报告编号: 1124004446-1)。 The assembled batteries) 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.:1124004446-1). 2.随附 UN38.3 试验概要(编号: 1125000539-2)。 Attached with UN38.3 test summary (No.: 1125000539-2).	



批准  
Approver:

审核  
Checker:

主检  
Appraiser:



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中国认可  
国际互认  
检测  
TESTING  
CNAS L2322

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## 产品信息:

### Product information:

电池类型 Battery type	锂离子电池 Lithium ion battery	标称电压 Nominal Voltage	25.6V
额定容量 Rated Capacity	280Ah	总能量 Total Energy	7kWh
充电限制电压 Limited Charge Voltage	28.8V(3.6V/单体)	标准充电电流 Standard Charge Current	140A
最大持续充电电流 Maximum Continuous Charge Current	235A	标准放电电流 Standard Discharge Current	140A
最大持续放电电流 Maximum Continuous Discharge Current	270A	放电截止电压 Discharge Cut-off Voltage	20.4V (2.55V/单体)
重量 Weight	73.5kg	物理形状说明 Physical description	长方体 Cuboid
电池组组合方式 Battery Pack Combination	1P 2S	模组数量 Module Quantity	2 PCS



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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 Remark
1	过度充电 Overcharge	联合国《关于危险货物运输的建议书 试验和标准手册》UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.8, 38.3.3(g)	见附表 1 See Appendix 1	合格 Passed	/
2	短路 Short circuits	联合国《关于危险货物运输的建议书 试验和标准手册》UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.8, 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《关于危险货物运输的建议书 试验和标准手册》UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.8, 38.3.3(g)	见附表 1 See Appendix 1	合格 Passed	/
测试环境 Test environment condition		环境温度: 20°C-25°C; 环境湿度: 45%-75% Ambient temperature: 20°C-25°C, Ambient humidity: 45%-75%			

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附表 1  
Appendix 1

样品状态 Sample status	一个功能正常的集成电池组; One functional assembled battery;	
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 circuits	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。 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

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### 样品图片

### Photo of the sample

### 集成电池组/Battery Pack

电池正面外观  
Battery front appearance



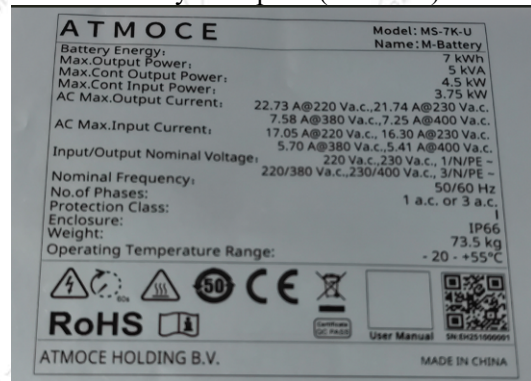
电池侧面外观  
Battery side appearance



电池侧面外观  
Battery side appearance



电池铭牌(含 Wh)  
Battery nameplate (With Wh)



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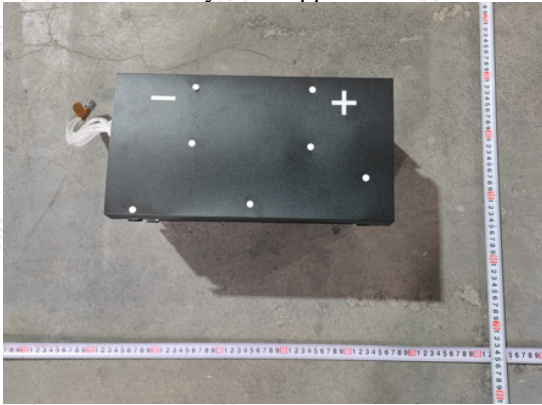
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### 样品图片

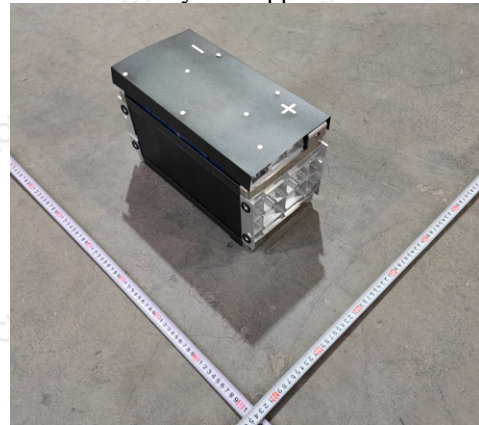
### Photo of the sample

#### 内含电池模组/Battery module

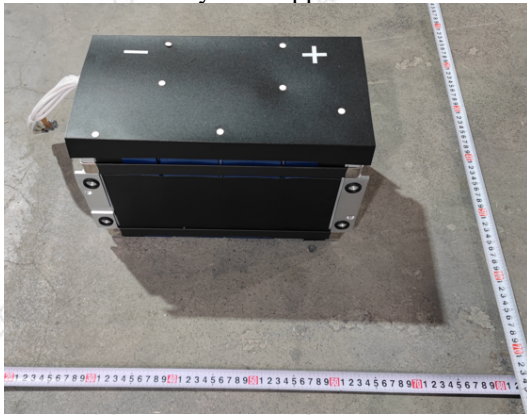
电池正面外观  
Battery front appearance



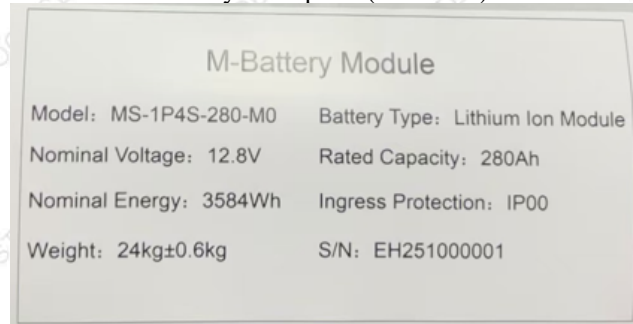
电池侧面外观  
Battery side appearance



电池背面外观  
Battery back appearance



电池铭牌(含 Wh)  
Battery nameplate (With Wh)



电芯  
Cell



电芯标签  
Cell label

L173F280A  
Battery Cell  
Nominal Capacity 280Ah  
Nominal Energy 896Wh  
Nominal Voltage 3.2V



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### 声 明 Statement

1. 本报告无检测单位公章无效。

The test report is invalid without the official stamp of IQTC.

2. 本报告无批准人、审核人及主检人签名无效。

The test report is invalid without the signatures of Approver, Checker and Appraiser.

3. 本报告涂改无效。未经本实验室书面同意，不得部分地复制本报告。

The test report is invalid if altered. Nobody is allowed to photocopy or partly photocopy this report without written permission of IQTC

4. 客户必须如实提供样品及资料，并保证申报品名和样品以及运输货物相同，否则本检测单位不承担任何相关责任。

The client should provide samples and relevant data, at the same time, they should guarantee the consistence of the product's name they declared, the samples they provided and the goods to be transported. Otherwise we will not bear any relevant responsibilities.

5. 对检测报告若有异议，应于收到报告之日起十五天内向检测单位提出。

Objection to the test report must be submitted to IQTC within 15 days

6. 本报告仅对送检样品负责。

The test report is valid for the tested samples only.

7. 检测地址: 广东省广州市科学城南翔支路1号C102房(汽车与装备检测研究所科学城)

Test Address: Room C102, No.1 Nanxiangzhi Road, Science City, Guangzhou, Guangdong, China  
(Institute of Automobile and Equipment Testing in Science City)

电话(Tel): 020-38669019-811

电子邮箱(E-mail): battery@iqtcnet.cn

\* \* \* \* 报告结束 End of report \* \* \* \*