

3M堆码检测报告

3m Stacking Test Report

报告编号 : MTi250107021-0209B4

(Report No.)

签发日期 : 2025-05-07

(Date of Issue)

委托单位 : 成都惠利特自动化科技有限公司

(Applicant) Heltec Automation Technology Co., Ltd

产品名称 : 移动电源

(Product Name) Qi2 & Meshtastic Emergency
Communication Power Bank

检测类别 : 委托检测

(Test Type) (Commissioned Inspection)

深圳市微测检测有限公司
(Shenzhen Microtest Co., Ltd.)

1. 基本信息 Basic Information

委托单位 Applicant	成都惠利特自动化科技有限公司 Heltec Automation Technology Co., Ltd	
委托地址 Applicant's Address	成都市高新区紫瑞北街 54、56、58 号 1 层 1f, No.54,56,58, Zirui North Street,Gaoxin District, Chengdu	
制造商 Manufacturer	成都惠利特自动化科技有限公司 Heltec Automation Technology Co., Ltd	
制造商地址 Manufacturer's Address	成都市高新区紫瑞北街 54、56、58 号 1 层 1f, No.54,56,58, Zirui North Street,Gaoxin District, Chengdu	
产品名称 Product Name	移动电源 Qi2 & Meshtastic Emergency Communication Power Bank	
商标 Trade Mark		
型号 Model	HT-298A	
试验项目 Test Item	3m 堆码测试 3m Stacking	
接收日期 Received Date	2025-04-18	
检测日期 Tested Date	2025-04-20 to 2025-04-23	
测试实验室 Testing Laboratory	深圳市微测检测有限公司 Shenzhen Microtest Co., Ltd. 广东省深圳市宝安区福海街道新和社区福海大道新兴工业园二区 7 号 101 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China.	
检测依据 Test Reference	联合国《关于危险货物运输的建议书 规章范本》(22修订版)6.1.5.6 章节特殊规定 188 条款/ United Nations "Recommendations on the Transport Of Dangerous Goods" Model Regulations (22nd Rev. Edition) 6.1.5.6 chapter Special Provisions 188	
检测结论 Test Conclusion	被测试包装件能够承受 3m 堆码试验, 试验时长 24 小时, 其内装的电池没有破损或泄露, 没有产生对运输安全不利影响的损坏, 没有显出可能降低其强度或造成包装件堆码不稳定的变形, 测试合格。 / The tested package is capable of withstanding 3m stacking test for 24 hours with no damage or leakage of the batteries contained within it, no damage which may adversely affect the safety of transportation, and no deformation which may reduce its strength or cause instability of the package stacking The test passed.	
编制(Prepared by):	崔邱扬	
审核(Reviewed by):	董 圆	
批准(Approved by):	连 平	

2. 包装信息 Packaging Information

包装件生产单位 Manufacturer of Package	成都惠利特自动化科技有限公司 Heltec Automation Technology Co., Ltd		
包装生产单位 Manufacturer of Packaging	成都五七包装有限公司 Chengdu Wuqi Package Co.,Ltd.		
型号 Model	HT-298A	额定容量/能量 Rated Capacity/Energy	5000mAh/19.35Wh
包装件数量 Packaging number	3PCS	内含电池数量 Battery number	18PCS
包装件重量 Packaging weight	4.5Kg	包装件电池净重 Net quantity of batteries per package	2.64Kg
包装件尺寸 Packaging dimensions (L*W*T)	350*250*200(mm)	电池尺寸 Battery dimensions (L*W*T)	97*70*7.1(mm)
包装名称 Packaging name	瓦楞纸箱 Corrugated cartons	衬垫及其他部件 Gaskets and other components	珍珠棉 Pearl cotton
加载的载荷 Theoretical Load	44Kg		

3. 3 m 堆码测试 3m Stacking Test

环境条件 Environmental conditions: 温度 Temperature (20±5)°C, 相对湿度 R.H. (55±20)%

测试设备 Name of Equipment: 堆码试验机 Stacking Tester 型号 Model: GX-6010-M1T

堆码数量 Stacking No

堆码数量 Stacking No	1 One	2 Two	3 Three
包装状态 Status	合格/Pass	合格/Pass	合格/Pass

测试要求描述 Testing requirements description:

- 1) 在试验样品的顶部表面施加一力量,此力相当于运输时可能堆叠在它上面的同样数量的包装间的总重量。包括试验样品在内的堆码高度为 3m 试验时间为 24 小时, 而不造成其内装的电池没有破损或泄露, 没有产生对运输安全不利影响的损坏, 没有显出可能降低其强度或造成包装件堆码不稳定的变形

Apply a force to the top surface of the test sample equivalent to the total weight of the same number of packing rooms that may be stacked on top of it at the time of transportation. The stacking height, including the test samples, is 3m and the test time is 24 hours without causing damage or leakage of the batteries contained therein, without causing damage which may adversely affect the safety of transportation, and without showing deformation which may reduce the strength or cause instability of the packing

样品图片 Photos of The Sample

包装件逐层打开照片 Photo of opened packaging



声 明 Statement

1. 无本实验室盖章及签字，此份报告无效。

(This report is invalid without the seal and signature of the laboratory.)

2. 本报告检测结果仅对所递交的样品负责，委托方对样品的代表性和资料的真实性负责。

(The test results of this report are only responsible for the samples submitted. Client shall be responsible for representativeness of the sample and authenticity of the material.)

3. 未经本实验室书面同意，不得部分复制本报告。

(The report shall not be partially reproduced without the written consent of the Laboratory.)

4. 本报告私自转让、涂改或以任何形式篡改无效。

(This report is invalid if transferred, altered or tampered with in any form without authorization.)

5. 本检测报告中检测项目标注有特殊符号则表示该项目不在资质认定范围内，仅作为客户委托、科研、教学或内部质量控制等目的使用。

The observations or tests with special mark fall outside the scope of accreditation, and are only used for purpose of commission, research, training, internal quality control etc.

6. 对本报告若有异议，应于收到报告之日起 15 天内向实验室提出。

(Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.)

***** END OF REPORT 报告结束 *****