

检测报告

报告编号 : AGC06724241103GS01

产品名称 : 个人交流器 Response

商 标 : Bellman & Symfon

型 号 : BE1053

委托单位 : Bellman & Symfon Group AB

签发日期 : 2024 年 12 月 10 日

报告版本 : V1.0

深圳市鑫宇环检测有限公司

Attestation of Global Compliance (Shenzhen) Co., Ltd.

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Attestation of Global Compliance(Shenzhen)Co., Ltd

Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>



检测报告

报告编号 :	AGC06724241103GS01	委托单位 :	Bellman & Symfon Group AB
样品名称 :	个人交流器 Response	地 址 :	Södra Långebergsgatan 30, 436 32 Askim, Sweden
商 标 :	Bellman & Symfon	制 造 商 :	Bellman & Symfon Group AB
型 号 :	BE1053	地 址 :	Södra Långebergsgatan 30, 436 32 Askim, Sweden
参 数 :	1.5V (由1节碱性电池供电)	生 产 厂 :	厦门兴联集团有限公司
样品来源 :	委托单位送样	地 址 :	福建厦门市湖里区火炬园创新路2号兴联 电子大厦
收样日期 :	2024年11月04日	完成日期 :	2024年12月10日

试验依据标准:

GB 4943.1-2022《音视频、信息技术和通信技术设备 第1部分:安全要求》

试验结论:

所检项目合格。

测 试

王智

王智

审 核

严栋梁

严栋梁

批 准

王彬 (授权签字人)

王彬

试验单位: 深圳市鑫宇环检测有限公司

2024年12月10日

地址: 广东省深圳市宝安区福海街道和平社区重庆路
骏丰工业园厂房19栋第一、二层

备注: /

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样品描述及说明

产品名称	: 个人交流器 Response
主测型号	: BE1053
系列型号	: /
规格参数	: 1.5V (由 1 节碱性电池供电)
产品分类	: ☒ 终端产品 ☐ 嵌装式元器件
使用人员分类	: ☒ 一般人员 ☒ 小孩 ☐ 受过训练人员 ☐ 熟练技术人员
与电源的连接	: ☐ 交流电源 ☐ 直流电源 ☒ 非电网电源连接: [☒] ES1 [] ES2 [] ES3
电源容差	: ☐ +10%/-10% ☐ +20%/-15% ☐ + %/ - % ☒ 无
与电源的连接方式	: ☐ A 型可插式设备: [] 不可拆卸电源软线 [] 器具耦合器 [] 直插式
	: ☐ B 型可插式设备: [] 不可拆卸电源软线 [] 器具耦合器
	: ☐ 永久连接
	: ☐ 匹配连接器
	: ☒ 其它: 不与电网电源连接
保护装置的额定电流	: ☐ 16A 位置: [] 建筑 [] 设备 ☒ 无
设备可移性	: ☒ 可移动式 ☒ 手持式 ☒ 可携带式 ☐ 直接插入式 ☐ 驻立式
	: ☐ 嵌装式 ☐ 壁装/顶吸式 ☐ 滑轨安装 ☐ 其它:
过压等级 (OVC)	: ☐ OVC I ☐ OVC II ☐ OVC III ☐ OVC IV ☒ 其它: 不与电网电源连接
设备的防触电类别	: ☐ I 类 ☐ II 类 ☒ III 类 ☐ 未分类 ☐ 其它:
特殊安装位置	: ☒ 无 ☐ 限制接触区 ☐ 室内环境 ☐ 其它:
污染等级 (PD)	: ☐ PD1 ☒ PD2 ☐ PD3
指定的环境温度 T _{ma}	: 35°C ☐ Outdoor: minimum ____ °C
外壳防护等级	: ☒ IPX0 ☐ IP____
配电系统	: ☐ TN ☐ TT ☐ IT - V _{L-L} ☒ 非市电
工作区域海拔 (m)	: ☒ ≤ 海拔 2000 米 ☐ 米
测试实验室海拔 (m)	: ☒ ≤ 海拔 2000 米 ☐ 米
设备重量 (kg)	: <1kg

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其他重要描述:

1. 本产品被测试产品为用于 ITAV 设备的 III 类个人交流器 **Response**; 由 1 节 7 号碱性电池供电, 仅供室内使用。
2. 制造商推荐的最大使用环境温度(Tma)是 35°C。

铭牌:

个人交流器 Response

型号: BE1053

电池: 1 节 7 号碱性电池

制造商: Bellman & Symfon Group AB

地址: Södra Långebergsgatan 30,

436 32 Askim, 瑞典

瑞典设计, 中国生产



一般评述:

“（见附表）”指本报告的附加表格。

本报告出现的试验结果仅与试验样品有关。

除非全部复制, 否则无实验室书面批准本报告不得部分复制。

可能的试验情况判定:

— 要求不适用本产品	N
— 试验结果符合要求	P
— 试验结果不符合要求	F

能量源及安全防护的概述				
条款	可能的危害			
5	电引起的伤害			
等级与能量源 (如 ES3: 初级电路)	人体部位 (如: 一般人员)	安全防护		
		B	S	R
ES1: 所有电路	一般人员	无	无	无
6	电引起的伤害			
等级与能量源 (如 PS2: 100W 电路)	材料部分 (如: 印制板)	安全防护		
		B	1 st S	2 nd S
PS2: 所有电路 PS1: 干电池	外壳及内部可燃材料	1. 无引燃发生 2. 设备部件温度值不超过该部件自燃温度限值的 90%。	1. V-0 等级的塑料外壳 2. V-0 等级的 PCB 3. 其他元器件至少 V-2 等级	无
7	有害物质引起的伤害			
等级与能量源 (如: 臭氧)	人体部位 (如: 熟练技术)	安全防护		
		B	S	R
无	无	无	无	符合附录 M 要求
8	机械引起的伤害			
等级与能量源 (如 MS3: 塑料风扇叶片)	人体部位 (如: 一般)	安全防护		
		B	S	R
MS1: 外壳菱边、角	一般人员	无	无	无
MS1: 设备质量	一般人员	无	无	无
9	热灼伤			
等级与能量源 (如 TS1: Keyboard caps)	人体部位 (如: 一般)	安全防护		
		B	S	R
TS1: 可接触外壳表面	一般人员	无	无	无
10	辐射			
等级与能量源 (如 RS1: PMP 声音输出)	人体部位 (如: 一般)	安全防护		
		B	S	R
RS1: LED 指示灯	一般人员	无	无	无

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附加信息:
“B” - 基本防护; “S” - 附加防护; “R” - 加强防护

能量来源图

可选择。制造商要提供能量来源图表，确定申明能源来源，并确定电源之间的界限。推荐性的图表需包括电源及多部件系统。

在下方插入图表。示例图为:方框图;带有分级数据的示意图;机械结构图

PS1 ES1

干电池

PS2 ES1

内部电路

Enclosure TS1 , MS1 , RS1

☒ ES

☒ PS

☒ MS

☒ TS

☒ RS

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
4	通用要求		P
4.1.1	材料、元器件和组件的验收	已被证实符合有关 IEC 和/或国家、行业标准的元器件在其额定范围内使用	P
4.1.2	元器件的使用	根据客户要求不评估	N
4.1.3	设备的设计和结构	提供了有效安全防护, 任何可能造成伤害的设备部件都不可触及	P
4.1.4	室外使用设备的额定环境温度(°C)	室内使用	N
4.1.5	未明确覆盖的结构和元器件		N
4.1.8	液体和充液的元器件(LFC)		N
4.1.15	标记与说明	(见附录 F)	P
4.4.3	安全防护的强度		P
4.4.3.1	基本要求		P
4.4.3.2	恒定力试验	(见附录 T. 4)	P
4.4.3.3	跌落试验	(见附录 T. 7)	P
4.4.3.4	冲击试验		N
4.4.3.5	内部可触及的安全防护试验	一般人员不能触及到任何内部实体安全防护, 且无法徒手打开外壳	P
4.4.3.6	玻璃冲击试验	设备无此类玻璃	N
4.4.3.7	玻璃固定试验		N
	玻璃冲击试验(1J)		N
	推拉力试验(10N)		N
4.4.3.8	试塑料性材料试验	(见附录 T. 8)	P
4.4.3.9	构成安全防护的空气		N
4.4.3.10	可触及、玻璃以及安全防护的有效性		P
4.4.4	绝缘液体代替安全防护		N
4.4.4	安全连锁		N
4.5	爆炸		P
4.5.1	基本要求		P
4.5.2	在正常/异常条件下不得发生爆炸	(见附录 B. 2 与 B. 3)	P

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
	在单一故障条件下发生爆炸, 则不能导致伤害		N
4.6	导体的固定		N
	导体的固定不会使安全防护失效		N
	合格判定试验.....:		N
4.7	直接插入电网电源输出插座的设备		N
4.7.2	电网电源插头部分符合相关标准		N
4.7.3	力矩 (Nm)		N
4.8	包含纽扣电池的设备		N
4.8.1	基本要求		N
4.8.2	指示性安全防护		N
4.8.3	电池仓门/盖结构		N
	打开池仓门/盖力矩测试		N
4.8.4.2	应力消除试验		N
4.8.4.3	电池更换试验		N
4.8.4.4	跌落试验		N
4.8.4.5	冲击试验		N
4.8.4.6	挤压试验		N
4.8.5	合格判据		N
	试验指: 30N		N
	试验勾: 20N		N
4.9	由于导电物进入导致着火或电击的可能性		N
4.10	元器件要求		N
4.10.1	断开装置	(见附录 L)	N
4.10.2	开关和继电器	(见附录 G)	N
4.11	过流保护装置		N
	一次电路的过流、短路和接地故障进行保护的 保护装置, 应作为设备的一部分包含在设备中		N
5	电引起的伤害		P
5.2	电能量源的分级和限值		P
5.2.2	ES1, ES2, ES3 限值		P

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
5.2.2.2	稳态电压和电流的限值	(见附表 5.2)	P
5.2.2.3	电容量限值		N
5.2.2.4	单个脉冲限值		N
5.2.2.5	重复脉冲的限值		N
5.2.2.6	振动信号		N
5.2.2.7	音频信号		N
5.3	电能量源的防护		N
5.3.1	一般人员、受过培训的人员和熟练技术人员对可触及部件的基本要求	产品只有 ES1 电路	N
5.3.1 a)	产生可触及 ES1 或 ES2 电路的 ES2 或 ES3 电路		N
5.3.1 b)	熟练技术人员不能无意接触到 ES3 裸露导体		N
5.3.2.1	电能量源及安全防护的可触性		N
	室外设备的裸露导体的可触性		N
5.3.2.2	接触要求		N
	附录 V 的试具测试		N
5.3.2.2 a)	空气间隙 - 电气强度测试 (V).....:		N
	空气间隙 - 距离 (mm)		N
5.3.2.3	合格性		N
5.3.2.4	连接剥去绝缘的导线的端子	无此类端子	N
5.4	绝缘材料和要求		N
5.4.1.2	绝缘材料的特性		N
5.4.1.3	非吸湿材料		N
5.4.1.4	绝缘材料的最高工作温度.....:		N
5.4.1.5	污染等级.....:		N
5.4.1.5.2	对污染等级 1 环境和绝缘化合物的试验		N
5.4.1.5.3	热循环试验		N
5.4.1.6	具体不同尺寸的变压器的绝缘		N
5.4.1.7	产生启动脉冲的电路的绝缘		N
5.4.1.8	工作电压的确定.....:	(见附表 5.4.1.8)	N
5.4.1.9	绝缘表面		N

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
5.4.1.10	直接安装导电金属零部件的热塑性零部件		N
5.4.1.10.2	维卡试验.....:		N
5.4.1.10.3	球压试验.....:		N
5.4.2	电气间隙		N
5.4.2.1	基本要求		N
	连接到交流电网电源的电气间隙的替换方法		N
5.4.2.2	确定电气间隙的程序 1		N
	瞬态过电压.....:		—
5.4.2.3	确定电气间隙的程序 2		N
5.4.2.3.2.2	交流电网电源瞬态电压的确定		—
5.4.2.3.2.3	直流电网电源瞬态电压的确定		—
5.4.2.3.2.4	外部电路瞬态电压的确定		—
5.4.2.3.2.5	通过测量确定瞬态电压等级		—
5.4.2.4	使用抗电强度试验确定电气间隙是否满足要求..:		N
5.4.2.5	海拔高度高于2000m 的时, 电气间隙与电压之间的倍增系数.....:		N
5.4.2.6	电气间隙的测量.....:		N
5.4.3	爬电距离		N
5.4.3.1	基本要求		N
5.4.3.3	材料级别.....:		N
5.4.3.4	爬电距离的测量.....:		N
5.4.4	固体绝缘		N
5.4.4.1	基本要求		N
5.4.4.2	最小绝缘穿透距离.....:		N
5.4.4.3	构成固体绝缘的绝缘化合物		N
5.4.4.4	半导体器件的固体绝缘		N
5.4.4.5	构成粘合接缝的绝缘化合物		N

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5.4.4.6	薄层材料		N
5.4.4.6.1	基本要求		N
5.4.4.6.2	可分离的薄层材料		N
	层数.....:		N
5.4.4.6.3	不可分离的薄层材料		N
	层数.....:		N
5.4.4.6.4	不可分离的薄层材料的标准试验程序		N
5.4.4.6.5	卷轴试验		N
5.4.4.7	绕组组件中的固体绝缘		N
5.4.4.9	频率高于30kHz 时的固体绝缘的要求 E_p , K_R , d , V_{PW} (V).....:	(见附表 5.4.4.9)	N
	进行抗电强度试验作为可替换方法, 试验电压 (V), K_R:		N
5.4.5	天线端子绝缘		N
5.4.5.1	基本要求		N
5.4.5.2	浪涌电压试验		N
	绝缘电阻试验 ($M\Omega$).....:		N
	抗电强度试验 (V).....:		N
5.4.6	作为附加安全防护一部分的内部导线的绝缘		N
5.4.7	半导体元器件和粘合接缝的试验		N
5.4.8	湿热处理		N
	相对湿度(%), 温度($^{\circ}C$), 时间.....:		N
5.4.9	抗电强度试验		N
5.4.9.1	固体绝缘型式试验的试验程序		N
5.4.9.2	例行试验的试验程序		N
5.4.10	来自外部电路的瞬态电压的安全防护		N
5.4.10.1	与外部电路隔离的部件和电路		N
5.4.10.2	测试方法		N
5.4.10.2.1	基本要求		N
5.4.10.2.2	脉冲试验.....:		N

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
5.4.10.2.3	稳态试验.....:		N
5.4.10.3	脉冲试验绝缘击穿的判断.....:		N
5.4.11	外部电路和地之间的隔离	无接地电路	N
5.4.11.1	外部电路和地之间的隔离的例外情况		N
5.4.11.2	桥接在外部电路和地之间的隔离的SPDs		N
	额定动作电压 U_{op} (V).....:		N
	标称电压 U_{peak} (V).....:		N
	误差造成成的最大增加电压 ΔU_{sp}:		N
	老化造成的电大增加电压 ΔU_{sa}:		N
5.4.11.3	试验方法和合格判据		N
5.4.12	绝缘液体	无绝缘液体	N
5.4.12.1	基本要求		N
5.4.12.2	绝缘液体的抗电强度		N
5.4.12.3	绝缘液体的相容性		N
5.4.12.4	绝缘液体的容器		N
5.5	用作安全防护的元器件		N
5.5.1	基本要求		N
5.5.2	电容器和RC 单元		N
5.5.2.1	基本要求		N
5.5.2.2	断开连接器后电容器的放电.....:		N
5.5.3	变压器		N
5.5.4	光电耦合器		N
5.5.5	继电器	无继电器	N
5.5.6	电阻器	无此类电阻器	N
5.5.7	SPDs	无 SPD	N
5.5.8	电网电源和由同轴电缆构成的外部电路之间的绝缘	无同轴电缆电路	N
5.5.9	室外设备的输出插座的安全防护	无输出插座	N
	RCD额定剩余动作电流.....:		N
5.6	保护导体		N

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
5.6.2	保护导体的要求		N
5.6.2.1	基本要求	无接地电路	N
5.6.2.2	绝缘的颜色		N
5.6.3	保护接地导体的要求		N
	保护接地导体的尺寸(mm ²).....:		N
	用作加强安全防护的保护接地导体		N
	用作双重安全防护的保护接地导体		N
5.6.4	保护连接导体的要求		N
5.6.4.1	保护连接导体		N
	保护连接导体尺寸(mm ²).....:		N
5.6.4.2	保护电流额定值(A).....:		N
5.6.5	保护导体的端子		N
5.6.5.1	连接保护接地导体的端子的尺寸(mm).....:		N
5.6.5.2	腐蚀		N
5.6.6	保护连接系统的电阻		N
5.6.6.1	基本要求		N
5.6.6.2	试验方法.....:		N
5.6.6.3	接地电阻(Ω)或电压降.....:		N
5.6.7	保护接地导体的可靠连接		N
5.6.8	功能接地		N
	导体尺寸(mm).....:		N
	带有功能接地的II类设备规定的标志.....:		N
	器具输入插座的电气间隙&爬电距离(mm).....:		N
5.7	预期的接触电压、接触电流和保护导体电流		N
5.7.2	测量装置和网络		N
5.7.2.1	接触电流的测量		N
5.7.2.2	电压的测量		N
5.7.3	设备配置、电源连接和接地连接		N
5.7.4	未接地的可触及零部件		N
5.7.5	接地的可触及导电零部件		N

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
5.7.6	接触电流超过ES2 限值时的要求		N
	保护导体电流 (mA)		N
	指示性安全防护		N
5.7.7	与外部电路相关的预期接触电压和接触电流		N
5.7.7.1	同轴电缆引起的接触电流		N
5.7.7.2	与双导体电缆相关的预期接触电压和接触电流		N
5.7.8	来自外部电路的接触电流的总和		N
	a) 与接地的外部电路连接的设备, 电流 (mA)		N
	b) 与未接地的外部电路连接的设备 电流 (mA)		N
5.8	电池备用电源反向馈电的安全防护		N
	电源端子ES等级	无该类电池使用	N
	空气间隙 (mm)		N
6	电引起的着火		P
6.2	功率源 (PS) 和潜在引燃源 (PIS) 的分级		P
6.2.2	功率源电路的分级	(见附表 6.2.2)	P
6.2.3	潜在引燃源的分级		P
6.2.3.1	电弧性PIS		N
6.2.3.2	电阻性PIS	(见附表 6.2.3.1)	P
6.3	在正常工作条件和异常工作条件下着火的安全防护		P
6.3.1	不得发生引燃, 设备各部件的温度值不得达到高于GB/T 4610 规定的该部件的自燃温度限值的90%, 或者当材料的自燃温度未知时, 温度应当限制在300℃	(见附表 B.1.5 and B.3)	P
	可燃材料在防火外壳的外	无类似材料	N
6.4	单一故障条件下着火的安全防护		P
6.4.1	安全防护方法	使用控制火焰蔓延的方式	P
6.4.2	减小单一故障条件下PS1 电路中引燃的可能性		N
6.4.3	减小PS2 电路和PS3 电路在单一故障条件下引燃的可能性		N
6.4.3.1	附加安全防护		N
6.4.3.1	单一故障条件	(见附表 B.4)	N

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
6.4.3.2	温度受熔断器限制的例外条件		N
6.4.4	控制PS1 电路中的火焰蔓延		P
6.4.5	控制PS2 电路中的火焰蔓延		P
6.4.5.2	附加安全防护		N
6.4.6	控制PS3 电路中的火焰蔓延		N
6.4.7	可燃材料与PIS 的隔离	使用了防火外壳对 PIS 进行隔离	N
6.4.7.2	利用距离隔离		N
6.4.7.3	使用防火挡板隔离		N
6.4.8	防火防护外壳和防火挡板	使用了防火外壳	P
6.4.8.2	防火防护外壳和防火挡板的材料特性		P
6.4.8.2.1	防火挡板的要求		N
6.4.8.2.2	防火防护外壳的要求		P
6.4.8.3	防火防护外壳和防火挡板的结构要求		P
6.4.8.3.1	防火防护外壳和防火挡板的开孔		N
6.4.8.3.2	防火挡板的尺寸		P
6.4.8.3.3	顶部开孔和顶部开孔特性		N
	开孔尺寸(mm).....:	无开孔	N
6.4.8.3.4	底部开孔和底部开孔特性		N
	开孔尺寸(mm).....:	无开孔	N
	底部防火外壳的可燃性试验		N
	指示性安全防护.....:		N
6.4.8.3.5	侧面开孔和侧面开孔特性		N
	开孔尺寸(mm).....:		N
	防火防护外壳的完整性, 满足条件: a), b) or c).....:		N
6.4.8.4	PIS 与防火防护外壳和防火挡板的隔离	使用了 V-0 等级的防火外壳	P
6.4.9	绝缘液体的可燃性		N
6.5	内部和外部布线		P
	基本要求	内部线需符合 GB 5169.23 的要求	P
	与建筑物布线互连的要求.....:		N

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
	输出插座的内部布线尺寸(mm ²)		N
6.6	连接附加设备引起着火的安全防护		N
7	有害物质引起的伤害		P
7.2	减少在有害物质中的暴露		N
7.3	臭氧中的暴露		N
7.4	使用个人防护(PPE)		N
	个人防护及说明.....		N
7.5	使用指示性安全防护和说明		N
	指示性安全防护(GB/T 31523.1)		N
7.6	电池组及其保护电路		P
8	机械引起的伤害		P
8.2	机械能量源的分级		P
8.3	机械能量源的安全防护		P
8.4	有锐边锐角零部件的安全防护		N
8.4.1	安全防护	无锐角锐边	N
	指示性安全防护.....		N
8.4.2	锐边锐角		N
8.5	运动零部件的安全防护		N
8.5.1	手指、饰品、衣服、头发等有可能接触到 MS2 或 MS3 运动零部件	无运动零部件	N
	设备的功能需要触及 MS2 或 MS3 运动零部		N
	MS3 运动零部件是技术熟练人员可触及		N
8.5.2	指示性安全防护.....		N
8.5.4	包含运动零部件的特殊类别设备		N
8.5.4.1	基本要求		N
8.5.4.2	包含具有MS3 零部件的工作仓的设备		N
8.5.4.2.1	对工作仓内人员的防护		N
8.5.4.2.2	取消进入保护		N
8.5.4.2.2.1	基本要求		N
1			

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
8.5.4.2.2.2	可视指示器		N
8.5.4.2.3	急停系统		N
	沿着最重要的轴线方向, 距离起动点最大的停止距 (m)		N
	终点与最近的固定的机械部件之间的空间 (mm) ..		N
8.5.4.2.4	耐久性要求		N
	机械系统承受100000次循环操作		N
	- 进行机械功能检查		N
	- 线缆组件.....		N
8.5.4.3	具有销毁介质的机电装置的设备		N
8.5.4.3.1	设备安全防护		N
8.5.4.3.2	运动零部件的指示性安全防护		N
8.5.4.3.3	与电源的断开		N
8.5.4.3.4	对介质销毁装置的测试力 (N)		N
8.5.4.3.5	合格判据		N
8.5.5	高压灯	无高压灯	N
	爆炸试验.....		N
8.5.5.3	玻璃碎片的尺寸 (mm)		N
8.6	设备稳定性		N
8.6.1	基本要求	直插式设备	N
	指示性安全防护		N
8.6.2	静态稳定性		N
	静态稳定性试验.....		N
	向下力的试验		N
8.6.3	更换位置的稳定性		N
	轮子直径 (mm)		N
	倾斜测试		N
8.6.4	玻璃滑动试验		N
8.6.5	水平力试验.....		N

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
8.7	安装在墙壁、天花板或类似结构上的设备		N
8.7.1	安装方式.....:		N
8.7.2	测试方法		N
	试验1, 通过设备重心施加一个向下的力持续 1min.....:		N
	试验2, 附着点的数量以及试验力(N)		N
	试验3, 螺钉标称直径以及施加力矩(Nm)		N
8.8	提手强度		N
8.8.1	基本要求	无此类装置	N
8.8.2	提手强度试验		N
	提手数量.....:		N
	试验力(N)		N
8.9	对附件(轮子或脚轮)的要求		N
	拉力试验	无此类装置	N
8.10	推车、架子和类似搬运装置		N
8.10.1	基本要求	无此类装置	N
8.10.2	标志和说明		N
8.10.3	手推车、架子或搬运装置的加载试验		N
	施加的力(N)		N
8.10.4	手推车、架子或搬运装置的冲击试验		N
8.10.5	机械稳定性		N
	施加的力(N)		N
8.10.6	热塑性材料的温度稳定性		N
8.11	滑轨安装设备(SRME)的安装方式		N
8.11.1	基本要求	无此类装置	N
8.11.2	滑轨的要求		N
	指示性安全.....:		N
8.11.3	机械强度试验		N
8.11.3.1	向下力的试验.....:		N
8.11.3.2	横向推力试验		N

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
8.11.3.3	滑轨终端止挡的完整性		N
8.11.4	合格判据		N
8.12	伸缩天线或拉杆天线		N
	拉钮或拉球的直径(mm).....:	无此类装置	N
9	热灼伤		P
9.2	热能量源分级		P
9.3	接触温度限值		P
	可触及部件的接触温度.....:	(见附表 9.3)	P
	测试方法与合格判断	只 TS1 热能量源可被接触	P
9.4	热能量源的安全防护		N
9.5	安全防护的要求		N
9.5.1	设备级安全防护		N
9.5.2	指示性安全防护		N
9.6	无线功率发射器的要求		N
9.6.1	基本要求	无无线功率发射器	N
9.6.2	异物的规格		N
9.6.3	试验方法和合格判据		N
10	辐射		P
10.2	辐射能量源分级	无危险辐射能量源	P
	基本分级		P
	激光.....:		—
	灯和灯系统.....:	豁免:LED 指示灯	—
	影像投影仪.....:		—
	X射线.....:		—
	个人音乐设备.....:		—
10.3	激光辐射的安全防护		N
	包含激光的产品满足标准要求.....:		N
10.4	来自灯和灯系统(包括 LED)的光辐射的安全防护		N
10.4.1	基本要求		N

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
	当设备正确运行需要可触及的辐射等级超过规定等级时, 设备应当提供指示性安全防护		N
	辐射等级标签及位置.....:		N
	用户手册中要提供行安全操作和安装的说明		N
10.4.2	外壳的要求		N
	暴露在UV辐射下.....:		N
10.4.3	指示性安全防护		N
10.5	X 射线辐射的安全防护		N
10.5.1	基本要求		N
	对熟练技术人员的指示性安全防护		N
10.5.3	最大的辐射 (pA/kg)		N
10.6	声学能量源的安全防护		N
10.6.1	基本要求		N
10.6.2	分级		N
	声学输出 $L_{Aeq,T}$, dB(A)		N
	无加权输出电压有效值 (mV)		N
	数字输出信号.....:		N
10.6.3	剂量系统的要求		N
10.6.3.1	基本要求		N
10.6.3.2	剂量警告和自动降低		N
10.6.3.3	暴露警告和要求		N
	30 秒的整体暴露等级 (MEL30)		N
	瞬间暴露等级 (MEL) ≥ 100 dB(A) 的时的警告语.....:		N
10.6.4	测量方法		N
10.6.5	对人员的保护		N
	指示性安全防护.....:		N
10.6.6	对收听装置 (头戴式耳机、耳塞式耳机等) 的要求		N
10.6.6.1	模拟输入的有线收听装置		N
	收听装置的输入电压 (mV)		N
10.6.6.2	数字输入的有线收听装置		N

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
	最大声学输出 $L_{Aeq, T}$ dB(A)		N
10.6.6.3	无线收听装置		N
	最大声学输出 $L_{Aeq, T}$ dB(A)		N
附录 B	正常工作条件试验、异常工作条件试验和单一故障条件试验		P
B.1	基本要求		P
B.1.5	温度测量条件	(见附表 B.1.5)	P
B.2	正常工作条件		P
B.2.1	基本要求.....	(见样品描述及说明与附表)	P
	音频放大器和含有音频放大器的设备.....	(见附录 E)	N
B.2.3	电源电压与容差		P
B.2.5	输入试验		P
B.3	模拟的异常工作条件		P
B.3.1	基本要求		P
B.3.2	通风孔的覆盖		N
	指示性安全防护.....		N
B.3.3	直流电网电源的极性试验		N
B.3.4	电压选择器的调节		N
B.3.5	输出端子的最大负载		N
B.3.6	颠倒电池极性		N
B.3.7	音频放大器异常工作条件		N
B.3.8	异常工作条件试验期间和试验后的合格判据	(见附表 B.3)	P
B.4	模拟的单一故障条件		P
B.4.1	基本要求		P
B.4.2	温度控制装置		N
B.4.3	电动机试验		N
B.4.4	功能绝缘	(见附表 B.4)	P
B.4.4.1	短路功能绝缘的电气间隙	(见附表 B.4)	P
B.4.4.2	短路功能绝缘的爬电距离	(见附表 B.4)	P
B.4.4.3	短路涂覆印制板上的功能绝缘	无此类绝缘	N
B.4.5	短路和断开电子管和半导体的各极	(见附表 B.4)	P

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条款	要求-试验	结果-评述	判定
B. 4. 6	短路或断开无源元器件	(见附表 B. 4)	P
B. 4. 7	元器件连续工作	设备正常使用时连续工作	N
B. 4. 8	单一故障条件试验期间和试验后的合格判据	(见附表 B. 4)	P
B. 4. 9	单一故障条件下的电池充放电	(见附表 B. 4)	N
附录 C	紫外线辐射		N
C. 1	设备材料的防紫外线辐射	无紫外线辐射	N
C. 1. 2	要求		N
C. 1. 3	试验方法和合格判据		N
C. 2	紫外线处理试验		N
C. 2. 1	试验装置.....:		N
C. 2. 2	试验样品的放置		N
C. 2. 3	碳弧光辐照试验		N
C. 2. 4	氙弧光辐照装置		N
附录 D	试验发生器		N
D. 1	脉冲试验发生器		N
D. 2	天线接口试验发生器		N
D. 3	电子脉冲发生器		N
附录 E	含有音频放大器的设备的试验条件		N
E. 1	音频信号的电能源分级		N
	最大非削波输出功率(W)		—
	额定负载阻抗(Ω)		—
	开路输出电压(V)		—
	指示性安全防护.....:		—
E. 2	音频放大器正常工作条件		N
	音频信号种类.....:		—
	音频输出功率(W)		—
	音频输出电压(V)		—
	额定负载阻抗(Ω)		—
	温度测量.....:		N
E. 3	音频放大器异常工作条件		N

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
附录 F	设备标志、说明和指示性安全防护		P
F. 1	基本要求		P
	语言.....: 与安全有关的设备标志、说明和指示性安全防护使用中文		P
F. 2	字母符号和图形符号		P
F. 2. 1	字母符号		P
F. 2. 2	图形符号		P
	对于仅适用于在海拔2 000m及以下地区使用的设备应在设备明显位置上标注“仅适用于海拔2 000 m及以下地区安全使用”或类似的警告语句, 或如下标识(按附录Z): 		N
	对于仅适用于在非热带气候条件下使用的设备应在设备明显位置上标注“仅适用于非热带气候条件下安全使用”或类似的警告语句, 或如下标识(按附录Z): 	在热带与非热带条件下使用	N
	安全警告语句应使用设备预定销售地所能接受的语言	中文	P
F. 3	设备标志		P
F. 3. 1	设备标志的位置	设备标记位于被测物外表面, 且容易被看到	P
F. 3. 2	设备的识别标志	见铭牌	P
F. 3. 2. 1	制造商.....: 见铭牌		P
F. 3. 2. 2	型号.....: 见铭牌		P
F. 3. 3	设备额定值的标志		P
F. 3. 3. 1	直接和电网电源连接的设备		N
F. 3. 3. 2	不直接和电网电源连接的设备		P
F. 3. 3. 3	供电电压的性质.....: 		P
F. 3. 3. 4	额定电压.....: 1. 5V		P
F. 3. 3. 5	额定频率.....:		N
F. 3. 3. 6	额定电流或额定功率.....:		N
F. 3. 3. 7	具有多个电源连接端的设备		N

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条款	要求-试验	结果-评述	判定
F. 3. 4	电压设定装置		N
F. 3. 5	端子和操作装置上的标志		N
F. 3. 5. 1	电网电源器具输出插座和电网电源输出插座的标志	无输出插座	N
F. 3. 5. 2	开关位置的识别标志	无开关	N
F. 3. 5. 3	更换熔断器的标识和额定值标志		N
	对于在中线的熔断器的指示性安全防护说明		N
F. 3. 5. 4	更换电池的识别标志		N
F. 3. 5. 5	中性导体端子		N
F. 3. 5. 6	端子标志的位置		N
F. 3. 6	与设备类别有关的设备标志	III 类设备	N
F. 3. 6. 1	I 类设备		N
F. 3. 6. 1. 1	保护接地导体端子.....:		N
F. 3. 6. 1. 2	保护连接导体端子.....:		N
F. 3. 6. 2	设备类别标志.....:		N
F. 3. 6. 3	功能接地端子标志.....:		N
F. 3. 7	设备的IP额定值标志.....:		N
F. 3. 8	外部电源输出标志.....:		N
F. 3. 9	标志的耐久性、清晰性和持久性.....:		P
F. 3. 10	标志持久性试验	对标签进行了擦拭试验, 用水擦拭15秒, 然后用石油擦拭15秒。 测试完成后, 标记仍保持清晰可见。	P
F. 4	说明书		P
	安装说明书中或初次使用的说明中给出有关安全方面的信息		P
	对在儿童不可能出现的场所使用的设备的说明		P
	确保正确和安全地安装和互连设备的说明		P
	对预定仅在受限制接触区使用的设备的说明		N
	对设备预定是要固定在位的说明		N
	划分为ES3 端子的音频设备的说明		N

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
	对采用保护接地作为安全防护的设备说明		N
	对保护接地导体电流超过ES2限值的设备说明		N
	对设备上有图形符号标志在并用作指示性安全防护的说明		N
	永久连接式设备没有安装全极电网电源开关的说明		N
	可更换的元器件或模块是提供安全防护功能的说明		P
	包含绝缘液体的设备的说明		N
	室外设备的安装说明		N
F. 5	指示性安全防护		P
附录G	元器件		P
G. 1	开关		N
G. 1. 1	基本要求	无开关使用	N
G. 1. 2	额定值、耐久性、距离、最大加载	(见附表4. 1. 2)	N
G. 1. 3	试验方法及合格判据		N
G. 2	继电器		N
G. 2. 1	基本要求	无继电器	N
G. 2. 2	过载试验		N
G. 2. 3	控制向其他设备供电的端子的继电器控制向其他设备供电的端子的继电器		N
G. 2. 4	试验方法和合格判据		N
G. 3	保护装置		N
G. 3. 1	热断路器		N
	热断路器应根据a) 和b) 符合IEC 60730的要求		N
	热断路器随设备测试的要求见c)		N
G. 3. 1. 2	试验方法和合格判据		N
G. 3. 2	热熔断体		N
G. 3. 2. 1	热熔断体应当符合IEC 60691 的要求		N
	热熔断体作为设备的一部分进行试验		N
G. 3. 2. 2	试验方法和合格判据		N

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
G. 3. 3	PTC热敏电阻器		N
G. 3. 4	过流保护装置		N
G. 3. 5	G. 3. 1至G. 3. 4未提到的安全防护元器件		N
G. 3. 5. 1	对不可复位的保护装置的额定值及标签		N
G. 3. 5. 2	单一故障条件的试验条件		N
G. 4	连接器		N
G. 4. 1	电气间隙和爬电距离要求		N
G. 4. 2	电网电源的连接装置..... :		N
G. 4. 3	电网电源连接器以外的连接器, 插头不可能插入电网电源输出插座或器具耦合器		N
G. 5	绕组组件		N
G. 5. 1	绕组组件中的导线绝缘		N
G. 5. 1. 2	机械应力防护		N
G. 5. 2	耐久性试验		N
G. 5. 2. 1	基本试验要求		N
G. 5. 2. 2	加热试验		N
	测试时间(一天一个循环)..... :		N
	测试温度(°C)..... :		N
G. 5. 2. 3	电网电源供电的绕组组件		N
G. 5. 2. 4	绝缘未击穿		N
G. 5. 3	变压器		N
G. 5. 3. 1	符合方式..... :		N
	位置..... :		N
	保护方式..... :		N
G. 5. 3. 2	绝缘		N
	防止绕组位移的措施..... :		N
G. 5. 3. 3	变压器过载试验		N
G. 5. 3. 3. 1	试验条件		N
G. 5. 3. 3. 2	合格判据		N
G. 5. 3. 3. 3	绕组温度替代试验方法		N

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
G. 5. 3. 4	使用完全绝缘绕组线 (FIW) 的变压器	无此类装置	N
G. 5. 3. 4. 1	基本要求		N
	完全绝缘绕组线 (FIW) 的标称直径.....:		N
G. 5. 3. 4. 2	仅有基本绝缘的变压器		N
G. 5. 3. 4. 3	带有双重绝缘或者加强绝缘的变压器		N
G. 5. 3. 4. 4	FIW 绕在金属或铁氧体磁芯上的变压器		N
G. 5. 3. 4. 5	热循环试验和合格判据		N
G. 5. 3. 4. 6	局部放电试验		N
G. 5. 3. 4. 7	例行试验		N
G. 5. 4	电动机	无此类装置	N
G. 5. 4. 1	基本要求		N
G. 5. 4. 2	电动机过载试验条件		N
G. 5. 4. 3	运转过载试验及合格判据		N
G. 5. 4. 4. 2	堵转过载试验		N
	测试周期(天)		N
G. 5. 4. 5	直流电动机的运转过载试验		N
G. 5. 4. 5. 2	试验方法及合格判据		N
G. 5. 4. 5. 3	替代试验方法		N
G. 5. 4. 6	直流电动机的堵转过载试验		N
G. 5. 4. 6. 2	试验方法及判定		N
	最大温度.....:		N
G. 5. 4. 6. 3	替代试验方法		N
G. 5. 4. 7	带有电容器的电动机的试验方法及合格判据		N
G. 5. 4. 8	三相电动机的试验方法及合格判据		N
G. 5. 4. 9	串激电动机的试验方法及合格判据		N
	工作电压.....:		N
G. 6	导线绝缘		N
G. 6. 1	基本要求		N
G. 6. 2	漆包绕组线绝缘		N
G. 7	电源软线		N

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
G. 7. 1	基本要求		N
	型号.....:		N
G. 7. 2	横截面积.....:		N
G. 7. 3	不可拆卸电源软线的软线固定装置和应力消除		N
G. 7. 3. 2	软线应力消除		N
G. 7. 3. 2. 1	要求		N
	应力消除试验的力(N)		N
G. 7. 3. 2. 2	应力消除装置的失效		N
G. 7. 3. 2. 3	软线护套或套管位置, 距离(mm)		N
G. 7. 3. 2. 4	应力消除和软线固定装置的材料		N
G. 7. 4	软线入口		N
G. 7. 5	不可拆卸软线的弯曲保护		N
G. 7. 5. 1	要求		N
G. 7. 5. 2	试验方法及合格判据		N
	软线外径或软线外形尺寸的短边尺寸, D(mm)		—
	测试后的曲率半径(mm)		—
G. 7. 6	电源线布线空间		N
G. 7. 6. 1	基本要求		N
G. 7. 6. 2	多股导线		N
G. 7. 6. 2. 1	基本要求		N
G. 7. 6. 2. 2	软导线端部剥去约8mm长的绝缘层进行测试		N
G. 8	压敏电阻器		N
G. 8. 1	基本要求		N
G. 8. 2	着火的安全防护		N
G. 8. 2. 1	基本要求		N
G. 8. 2. 2	压敏电阻器过载试验		N
G. 8. 2. 3	暂态过电压试验		N
G. 9	IC限流器		N
G. 9. 1	要求		N
	IC限流器输出电流 (最大5A)		—

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
	制造商规定的漂流值.....:		—
G. 9. 2	试验程序		N
G. 9. 3	合格判据		N
G. 10	电阻器		N
G. 10. 1	基本要求		N
G. 10. 2	预处理		N
G. 10. 3	电阻器试验		N
G. 10. 4	电压电涌试验		N
G. 10. 5	脉冲试验		N
G. 10. 6	过载试验		N
G. 11	电容器和RC单元		N
G. 11. 1	基本要求		N
G. 11. 2	电容器和RC单元的处理		N
G. 11. 3	电容器的选用规则		N
G. 12	光电耦合器		N
	光电耦合器符合IEC 60747-5-5的要求		N
	型式试验电压 $V_{ini, a}$:		—
	例行试验电压 $V_{ini, b}$:		—
G. 13	印制板		P
G. 13. 1	基本要求		P
G. 13. 2	未涂覆的印制板		P
G. 13. 4	涂覆的印制板		N
G. 13. 5	在印制板不同表面上的导体间的绝缘		N
	绝缘穿透距离.....:		N
	绝缘层数量.....:		N
G. 13. 6	有涂覆印制板的试验		N
G. 13. 6. 1	样品制备和预备检查		N
G. 13. 6. 2	试验方法及合格判据		N
G. 14	元器件端子的涂覆		N
G. 14. 1	要求.....: (见条款G. 13)		N

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
G. 15	加压充液的元器件		N
G. 15.1	基本要求		N
G. 15.2	试验方法及合格判据		N
G. 15.2.1	静水压力试验		N
G. 15.2.2	抗蠕变试验		N
G. 15.2.3	管道和配件的兼容性试验		N
G. 15.2.4	振动试验		N
G. 15.2.5	热循环试验		N
G. 15.2.6	作用力的试验		N
G. 15.3	合格判据		N
G. 16	含有电容器放电功能的IC (ICX)		N
G. 16.1	是否满足不需要进行故障测试的条件		N
	设备中带有相关电路的ICX		N
	—单独试验的ICX		N
G. 16.2	试验		N
	脉冲试验时使用ICX 制造商规定的最小电容量的电容器和最小电阻值的电阻.....:		—
	脉冲需叠加在电网电源电压上.....:		—
	使用ICX 制造商规定的最大电容量的电容器和最小电阻值的电阻进行10000 次电源的通断循环.....:		—
G. 16.3	电容器的放电试验.....:		N
附录H	电话振铃信号准则		N
H. 1	基本要求		N
H. 2	方法A		N
H. 3	方法B		N
H. 3.1	振铃信号		N
H. 3.1.1	频率 (Hz)		—
H. 3.1.2	电压 (V)		—
H. 3.1.3	韵律; 时间 (s) 与电压 (V)		—
H. 3.1.4	单一故障电流 (mA)		—

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
H. 3. 2	脱开装置和监视电压		N
H. 3. 2. 1	使用脱开装置或监视电压的条件		N
H. 3. 2. 2	脱开装置		N
H. 3. 2. 3	监视电压 (V)		N
附录J	无需使用隔层绝缘的绝缘绕组线		N
J. 1	基本要求		N
	绕组线的绝缘.....		—
	圆形实心绕组线 (mm)		N
	方形实心绕组线和扁平 (平面弯曲) 实心绕组线的横截面积 (mm ²)		N
J. 2/J. 3	型式试验及制造期间的试验		—
附录K	安全联锁		N
K. 1	基本要求		N
	指示性安全防护.....		N
K. 2	安全联锁的安全防护机构的元器件		N
K. 3	操作方式的意外改变		N
K. 4	联锁安全防护的取消		N
K. 5	失效保护		N
K. 5. 1	出现任何单一故障		N
K. 6	机械动作的安全联锁		N
K. 6. 1	耐久性要求		N
K. 6. 2	试验方法及判定.....		N
K. 7	联锁电路的隔离		N
K. 7. 1	触点气隙和联锁电路零件的分开距离		N
	断开连接到电网电源的电路的导体, 触点间隙及其相关电路的分开距离 (mm)		N
	处在与电网电源隔离的电路中, 触点间隙的分开距离 (mm)		N
	K. 7. 2的测试前后的耐压测试.....	(见附表5. 4. 9)	N
K. 7. 2	过载试验, 电流 (A)		N
K. 7. 3	耐久性试验		N

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
K. 7. 4	抗电强度试验		N
附录L	断开装置		N
L. 1	基本要求		N
L. 2	永久连接式设备		N
L. 3	持续带电的零部件		N
L. 4	单相设备		N
L. 5	三相设备		N
L. 6	作为断开装置的开关		N
L. 7	作为断开装置的插头		N
L. 8	多个电源		N
	指示性安全防护.....:		N
附录M	带电池组及其保护电路的设备		P
M. 1	基本要求		P
M. 2	电池组及其电池的安全		P
M. 2. 1	电池组及其电池应符合下面列出相关国家标准和IEC标准		P
M. 3	设备内提供的电池组保护电路		P
M. 3. 1	基本要求		P
M. 3. 2	试验方法		P
	可充电电池组的过充电		N
	过度放电		P
	不可充电电池组的意外充电		N
	可充电电池组的反向充电		N
M. 3. 3	合格判据		P
M. 4	包含便携式二次锂电池组的设备的附加安全防护		N
M. 4. 1	基本要求		N
M. 4. 2	充电的安全防护		N
M. 4. 2. 1	基本要求		N
M. 4. 2. 2	合格判据		N
M. 4. 3	防火防护外壳		N

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
M. 4. 4	含有二次锂电池组的设备的跌落试验		N
M. 4. 4. 2	跌落试验的准备工作和步骤		N
M. 4. 4. 3	跌落后, 在24小时内定期监测跌落试验后的电池组和参考(未进行跌落)电池组的开路电压(5%).....:		N
M. 4. 4. 4	检查充电/放电功能		N
M. 4. 4. 5	充电/放电循环试验		N
M. 4. 4. 6	合格判据		N
M. 5	携带期间短路导致灼伤的危险		N
M. 5. 1	要求		N
M. 5. 2	试验方法和合格判据		N
M. 6	短路的安全防护		N
M. 6. 1	内部和外部的故障		N
M. 6. 2	合格判据		N
M. 7	铅酸和NiCd电池组的爆炸风险		N
M. 7. 1	防止易爆气体聚集的通风		N
	计算氢气的产生流量.....:		N
M. 7. 2	试验方法和合格判据		N
	最小空气流量率, Q (m3/h).....:		N
M. 7. 3	通风试验		N
M. 7. 3. 1	基本要求		N
M. 7. 3. 2	通风试验-可选1		N
	氢气浓度(%).....:		N
M. 7. 3. 3	通风试验-可选2		N
	氢气产生速率.....:		N
M. 7. 3. 4	通风试验-可选2		N
	氢气浓度(%).....:		N
M. 7. 4	标识要求		N
M. 8	外部火花源导致具有电解质溶液的电池内部引燃的防护		N
M. 8. 1	基本要求		N

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
M. 8. 2	试验方法		N
M. 8. 2. 1	基本要求		N
M. 8. 2. 2	假想的体积V _Z 的估算V _Z (m ³ /s)		—
M. 8. 2. 3	修正系数		—
M. 8. 2. 4	距离d 的计算d (mm)		—
M. 9	防止电解液泄漏		N
M. 9. 1	电解液泄漏的保护		N
M. 9. 2	防止电解液泄漏的盛盘		N
M. 10	防止可合理预见的误使用的说明		P
附录N	电化学电位(V)		N
	使用的材料		N
附录O	爬电距离和电气间隙的测量		N
	X 的值 (mm)		N
附录P	导电物体的安全防护		N
P. 1	基本要求		N
P. 2	防止异物进入或进入后引发后果的安全防护		N
P. 2. 1	基本要求		N
P. 2. 2	防止异物进入的安全防护		N
	位置与尺寸(mm)		—
P. 2. 3	防止异物进入产生的后果的安全防护		N
P. 2. 3. 1	安全防护要求		N
	图P. 3中的ES3和PS3禁止进入的空间对可携带式设备不适用		N
	对带有金属涂覆的塑料零部件或类似零部件的可携带式设备		N
P. 2. 3. 2	进入试验的结果		N
P. 3	防止内部液体泄漏的安全防护		N
P. 3. 1	基本要求		N
P. 3. 2	漏液后果的确定		N
P. 3. 3	漏液的安全防护		N

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
P. 3. 4	合格判据		N
P. 4	金属涂层和粘合剂固定的零部件		N
P. 4. 1	基本要求		N
P. 4. 2	试验		N
	预处理温度, TC (° C)..... :		N
	规定持续时间(周)..... :		N
附录Q	预定与建筑物配线互连的电路		N
Q. 1	受限制电源		N
Q. 1. 1	基本要求		N
	a) 内在地限制输出		N
	b) 使用一个线性或非线性的阻抗限制输出		N
	c) 使用一个调节网络限制输出	通过调节网络限制输出	N
	d) 使用过流保护装置并按照表Q. 2 的限值限制输出		N
	e) 符合G. 9 的IC 限流器		N
Q. 1. 2	试验方法和合格判据	见附表Q. 1	N
	过电流保护装置的额定电流(A)..... :		N
Q. 2	外部电路——双导线电缆的试验		N
	最大输出电流(A)..... :		N
	电流保护方法..... :		—
附录R	受限制短路试验		N
R. 1	基本要求		N
R. 2	试验设置		N
	过电流保护装置的测试..... :		—
R. 3	试验方法		N
	用于测试的电源线..... :		—
R. 4	合格判据		N
附录S	耐热和耐燃试验		N
S. 1	稳定功率不超过4000W的设备防火防护外壳和防火挡板材料的可燃性试验		N
	样品, 材料..... :	使用了V-0的防火外壳	—

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
	壁厚 (mm)		—
	预处理 (°C)		—
	测试火焰按照 IEC 60695-11-5 的要求		N
	- 试验样品未完全燃尽		N
	- 火焰应当在 30s 内熄灭		N
	- 规定的铺底层或包装用薄纸未起燃		N
S. 2	防火防护外壳和防火挡板的完整性的可燃性试验		N
	样品, 材料		—
	壁厚 (mm)		—
	预处理 (°C)		—
S. 3	防火防护外壳底部的可燃性试验		N
S. 3. 1	样品的安装		N
S. 3. 2	试验方法和合格判据		N
	样品, 材料		N
	壁厚 (mm)		N
S. 4	材料的可燃性分级		N
S. 5	稳态功率超过 4 000 W 的设备防火防护外壳材料的可燃性试验		N
	样品, 材料		—
	壁厚 (mm)		—
	预处理 (°C)		—
附录T	机械强度试验		P
T. 1	基本要求		P
T. 2	10N 恒定力试验	(见附表 T. 2)	N
T. 3	30N 恒定力试验		N
T. 4	100N 恒定力试验	(见附表 T. 4)	P
T. 5	250N 恒定力试验		N
T. 6	外壳冲击试验		N
	跌落测试		N
	摆锤测试		N
T. 7	跌落测试		P

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
T. 8	应力消除试验.....:	(见附表T. 8)	P
T. 9	玻璃冲击试验.....:		N
T. 10	玻璃破碎试验		N
	符合规定的碎片数.....:		N
T. 11	伸缩或拉杆天线试验		N
	力矩 (Nm)		N
附录U	阴极射线管 (CRT) 的机械强度和防爆炸影响		N
U. 1	基本要求		N
	指示性安全防护		N
U. 2	自身不防爆的CRT的测试方法和合格判据		N
U. 3	保护屏		N
附录V	可触及零部件的确定		N
V. 1	设备的可触及零部件		N
V. 1. 1	基本要求		N
V. 1. 2	对表面和开孔, 用铰接式试具试验		N
V. 1. 3	对开孔, 用直的非铰接式试具试验		N
V. 1. 4	对插头、插孔、连接器, 用钝头试具试验		N
V. 1. 5	对狭槽开孔, 施加楔形试具试验		N
V. 1. 6	对端子, 用刚性试验丝插入适用的开孔		N
V. 2	可触及零部件的判定		N
附录X	确定与不超过420V 峰值 (300V 有效值) 的交流电网电源连接的电路中的绝缘的电气间隙的替代方法		N
	电气间隙.....:	(见附表X)	N
附录Y	室外外壳的结构要求		N
Y. 1	一般要求		N
Y. 2	防UV辐射		N
Y. 3	防腐蚀		N
Y. 3. 1	室外外壳的金属部件应当能防止水生污染物的影响	非室外使用设备	N
Y. 3. 2	试验设备		N

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GB 4943.1-2022			
条款	要求-试验	结果-评述	判定
Y. 3. 3	水饱和和二氧化硫气体		N
Y. 3. 4	试验程序		N
Y. 3. 5	合格判据		N
Y. 4	密封垫		N
Y. 4. 1	基本要求		N
Y. 4. 2	密封垫试验		N
Y. 4. 3	拉伸强度和伸长率试验		N
	可替换测试方法.....:		N
Y. 4. 4	压缩试验		N
Y. 4. 5	防油		N
Y. 4. 6	保护措施	(M见附录P. 4)	N
Y. 5	室外外壳内部设备的保护		N
Y. 5. 1	基本要求		N
Y. 5. 2	潮湿防护		N
	通过GB/T 4208或附录Y. 5. 3的试验		N
Y. 5. 3	喷水试验		N
Y. 5. 4	对植物和虫害的防护		N
Y. 5. 5	对过量灰尘的防护		N
Y. 5. 5. 1	基本要求		N
Y. 5. 5. 2	IP5X 试验设备		N
Y. 5. 5. 3	IP6X 试验设备		N
Y. 6	外壳的机械强度		N
Y. 6. 1	基本要求		N
Y. 6. 2	冲击试验.....:	(见附表T. 6)	N

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5.2	表: 电能量源的分级						P
输入电压	位置 (如: 电路设计)	测试条件	参数				ES 等级
			电压 (V)	电流 (mA)	类型 ¹⁾	补充信息 ²⁾	
1.5VDC	电池供电	正常	1.5Vdc	--	DC	--	ES1
		异常	--	--	DC	--	
		单一故障	--	--	DC	--	
备注:							
1) 类型: 稳态 (SS), 电容 (CP), 单脉冲 (SP), 重复脉冲 (RP), 等。							
2) 附加信息: 频率, 脉冲持续时间, 脉冲断开时间, 电容值, 等。							

5.4.1.8	表: 工作电压测量				N
测量位置	U_{rms} (V)	U_p (V)	频率 (Hz)	备注	
--	--	--	--	--	
--	--	--	--	--	
--	--	--	--	--	
--	--	--	--	--	
备注:					

5.4.1.10.2	表: 维卡软化试验			N
测量方法.....	ISO 306 / B50			—
测量部件/材料	制造商/商标	厚度 (mm)	软化温度 (°C)	
--	--	--	--	
--	--	--	--	
备注:				

5.4.1.10.3	表: 球压试验				N
允许的压痕直径 (mm).....	≤ 2 mm				—
测量部件/材料	制造商/商标	厚度 (mm)	测试温度 (°C)	压痕直径 (mm)	
--	--	--	--	--	
备注:					

5.4.2, 5.4.3	表: 电气间隙与爬电距离测量值							N
电气间隙和爬电距离的	U_p	U_{rms}	频率 ¹⁾	规定值最小值	测量值 cI	E.S. ²⁾	规定值最小值	测量值

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位置:	(V)	(V)	(kHz)	cl (mm)	(mm)	(V)	cr (mm)	cr (mm)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

备注:

1) 仅限于频率高于 30kHz

2) 当 5.4.2.4 适用时, 符合电气强度试验

3) U_p :峰值电压, U_{rms} :有效值电压, cl:电气间隙, cr:爬电距离

5.4.4.2	表: 绝缘穿透距离测量值				N
绝缘穿透距离的位置 (DTI)	峰值电压 (V)	绝缘	规定值最小值 DTI (mm)	测量值 DTI (mm)	
--	--	--	--	--	
--	--	--	--	--	
备注: 1)详细见附表 4.1.2					

5.4.4.9	表: 频率>30kHz 的固体绝缘					N
绝缘材料	E_P	频率 (kHz)	K_R	厚度 d (mm)	绝缘	V_{PW} (Vpk)
--	--	--	--	--	--	--

备注:

5.4.9	表: 抗电强度试验			N
试验电压作用部位		电压形式 (浪涌, 脉冲, 交流, 直流等)	测试电压 (V)	是否击穿
基本绝缘				
--	--	--	--	
加强绝缘				
--	--	--	--	
备注:				

5.5.2.2	表: 放电试验					N
位置	供电电压 (V)	工作与异常条件 ¹⁾	开关位置	测量电压(Vpk)	ES 等级	
--	--	--	--	--	--	
备注: 装有 X 电容的测量						

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[] 泄放电阻额定值:

[] ICX

1) 正常工作条件 (如: 正常工作, 或才熔断器断开), SC= 短路, OC= 开路

5.6.6	表: 保护电阻测量				N
位置	试验电流 (A)	时间 (min)	压降 (V)	阻值 (Ω)	
--	--	--	--	--	
备注:					

5.7.4	表: 未接地的可触及零部件					N
位置	工作与异常条件	供电电压 (V)	参数			ES 等级
			电压 (V_{rms} or V_{pk})	电流 (A_{rms} or A_{pk})	频率 (Hz)	
--	--	--	--	--	--	--
备注: 见附表 5.2						
SC= 短路; OC= 开路						

5.7.5	表: 接地可触及部件的接触电流测量			N
供电电压 (V).....			—	
相位	[] 单相; [] 三相: [] 三角形 [] 星形		—	
配电系统	[] TN [] TT [] IT		—	
位置	故障条件 No. (IEC 60990 条款 6.2.2)	接触电流 (mA)	备注	
--	--	--	--	
备注:				

5.8	表: 电池备用电源反向馈电的安全防护					N
位置	供电电压 (V)	工作与异常条件	时间 (s)	开路电压 (V)	接触电流 (A)	ES 等级
--	--	--	--	--	--	--
备注:						
SC= 短路; OC= 开路						

6.2.2	表: 功率源分级					P
位置	工作与故障条件	电压 (V)	电流 (A)	最大功率 ¹⁾ (W)	时间 (S)	功率源等级

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内部电路	正常	--	--	--	--	PS2(宣称)
干电池	过载	--	--	--	--	PS1
备注: SC= 短路; OC= 开路 1) PS1 测试 3s, PS2 和 PS3 测试 5s。						

6.2.3.1	表: 电弧性 PIS 的确定				N
位置	3s 后的开路电压(Vpk)	测量的有效值电流(A)	计算值	是否电弧性 PIS	
--	--	--	--	--	
备注:					

6.2.3.2	表: 电阻性 PIS 的确定			P
位置	工作与异常条件	耗散功率 (W)	是否电阻性 PIS	
所有内部电路	--	--	是（宣称）	
备注:				

8.5.5	表: 高压灯				N
灯制造商	灯类型	爆炸方式	玻璃碎片的最长轴线尺寸 (mm)	1m 以外是否有玻璃碎片	
--	--	--	--	--	
备注:					

9.6	表: 无线功率发射器的温度测量							N
供电电压 (V).....:								—
发射器的最大发射功率 (W).....:								—
异物	没有接收器, 直接接触发射器		接收器与异物直接接触		接收器距离异物 2mm 放置		接收器距离异物 5mm 放置	
	异物 (°C)	环境 (°C)	异物 (°C)	环境 (°C)	异物 (°C)	环境 (°C)	异物 (°C)	环境 (°C)
--	--	--	--	--	--	--	--	--
备注:								

5.4.1.4, 9.3, B.1.5, B.2.6	表: 温度测量	P
-----------------------------------	---------	---

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供电电压 (V).....:			a)	--	--	--	—	
测试过程中的环境温度 T_{amb} (°C).....:			25.0	--	--	--	—	
零部件/位置的最大温度:			T (°C)				允许最大温度 T_{max} (°C)	
U1 附近的 PCB			57.6	--	--	--	130	
靠近 U1 底部的外壳内部			37.5	--	--	--	Ref	
靠近 U1 底部的外壳外部			35.1	--	--	--	Ref	
按钮			33.8	--	--	--	77	
环境温度			35	--	--	--	--	
绕组的温度:		t_1 (°C)	R_1 (Ω)	t_2 (°C)	R_2 (Ω)	T (°C)	允许最大温度 T_{max} (°C)	绝缘等级
--		--	--	--	--	--	--	--
备注:								
1) 制造商宣称的最大使用环境温度为 35° C。								
2) 条件 A):指被测设备由电池供电进行测试。								

B.2.5	表: 输入测试							N
电压 (V)	频率 (Hz)	电流 (A)	额定电流 (A)	功率 (W)	额定功率 (W)	熔断器位号	熔断器电流 (A)	条件/状态
--	--	--	--	--	--	--	--	--
备注:								

B.3, B.4		表: 异常工作与故障状态					P
环境温度 T _{amb} (°C).....					22-24		—
被测物的电源: 制造商, 型号, 额定输出.....					--		—
元器件位号	条件	供电电压 (V)	测试时间	熔断器位号	熔断器电流 (A)	结果	
U1 pin9-10	短路	1.5VDC	10 分钟	--	--	样机正常工作, 无损害, 无危险	
备注:							

M.3	表: 备内提供的电池保护电路						P
是否可以将电池安装在反极性位置.....:							—
设备规格	充电						
	电压 (V)				电流 (A)		

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	--	--					
制造商/型号	电池规格						
	不可充电电池			可充电电池			
	放电电流(A)	无意的充电电流 (A)	充电		放电电流 (A)	反向充电电流 (A)	
			电压 (V)	电流 (A)			
/	0.012A	--	--	--	--	--	--
备注: M.3.2 的试验仪在没有上述适当数据时适用							
指定电池温度(°C).....:				--			
元器件位号	异常条件	充电/ 放电模式	测试时间	温度 (°C)	电流 (A)	电压 (V)	结果
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
备注:							

M.4.2	表: 含二次锂电池设备的充电保护措施				N
规定的最大充电电压 (V).....		--			—
规定的最大充电电流 (A).....		--			—
规定的最高温度 (°C).....		--			—
规定的最低温度 (°C).....		--			—
电池制造商/型号	工作与异常条件	测量			结果
		充电电压(V)	充电电流 (A)	温度 (°C)	
--	--	--	--	--	--
--	--	--	--	--	--
备注:					

Q.1	表: 用于与建筑物布线互联的电路电路 (LPS)					N/A
输出电路	条件	输出电压(V)	时间 (s)	输出电流(A)	视在功率 (VA)	

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				测量	限值	测量	限值
--	--	--	--	--	--	--	--
备注:							

T.2, T.3, T.4, T.5	表: 恒定力试验						P
位置/部件	材料	材料厚度 (mm)	试验指	力(N)	时间 (s)	结果	
顶部外壳	塑料材料	1.9	--	100	5	无损伤, 无危险产生	
侧面外壳	塑料材料	1.9	--	100	5	无损伤, 无危险产生	
底部外壳	塑料材料	1.9	--	100	5	无损伤, 无危险产生	
备注:							

T.6, T.9	表: 冲击试验					N/A
位置/部件	材料	厚度 (mm)	高度 (mm)	结果		
--	--	--	--	--		
--	--	--	--	--		
--	--	--	--	--		
备注:						

T.7	表: 跌落试验					P
位置/部件	材料	厚度 (mm)	高度 (mm)	结果		
顶部外壳	塑料材料	1.9	1000	无损伤, 无危险产生		
侧面外壳	塑料材料	1.9	1000	无损伤, 无危险产生		
底部外壳	塑料材料	1.9	1000	无损伤, 无危险产生		
备注:						

T.8	表: 应力消除试验					P
位置/部件	材料	厚度 (mm)	烤箱温度 (°C)	时间 (h)	结果	
外壳	塑料材料	1.9	70	7	外壳无变形, 无危险产生	
备注:						

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X	表: 确定最小电气间隙距离的替代方法			N
电气间隙的位置:		峰值电压 (V)	要求的电气间距 (mm)	测量的电气间隙 (mm)
--		--	--	--
备注:				

4.1.2	表: 关键元器件				N
名称/位号	生产商/ 商标	类型/型号	技术参数	标准	认证标识
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--
备注:					
根据客户要求不评估。					

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样品照片



图 1 – 整体照

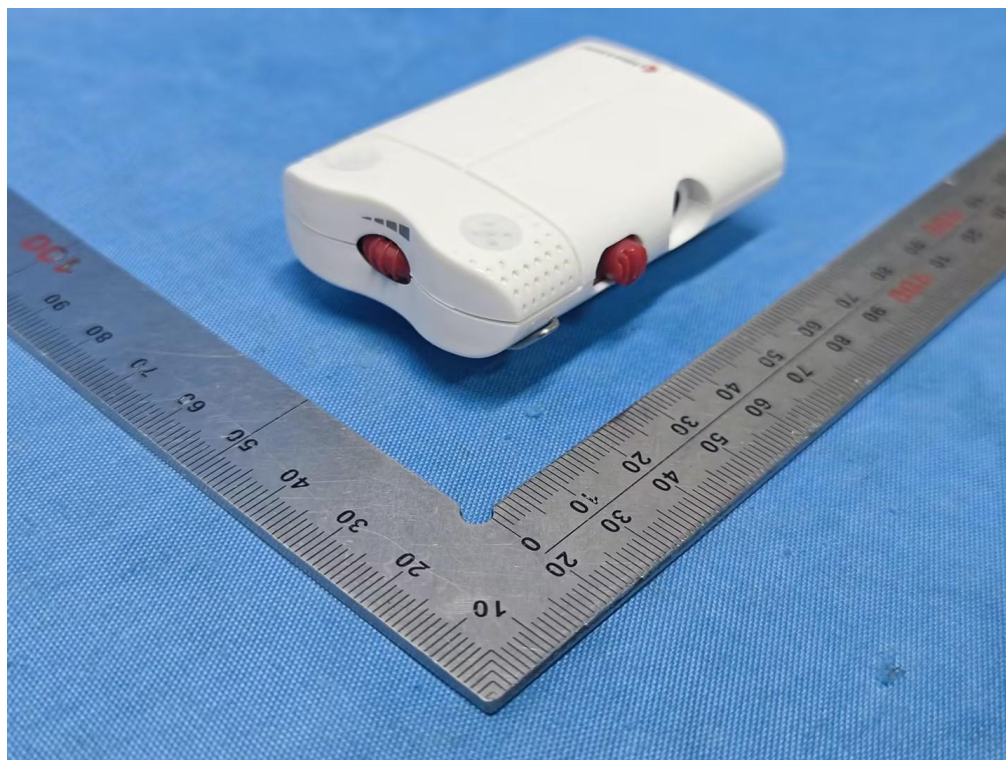


图 2 – 外观照

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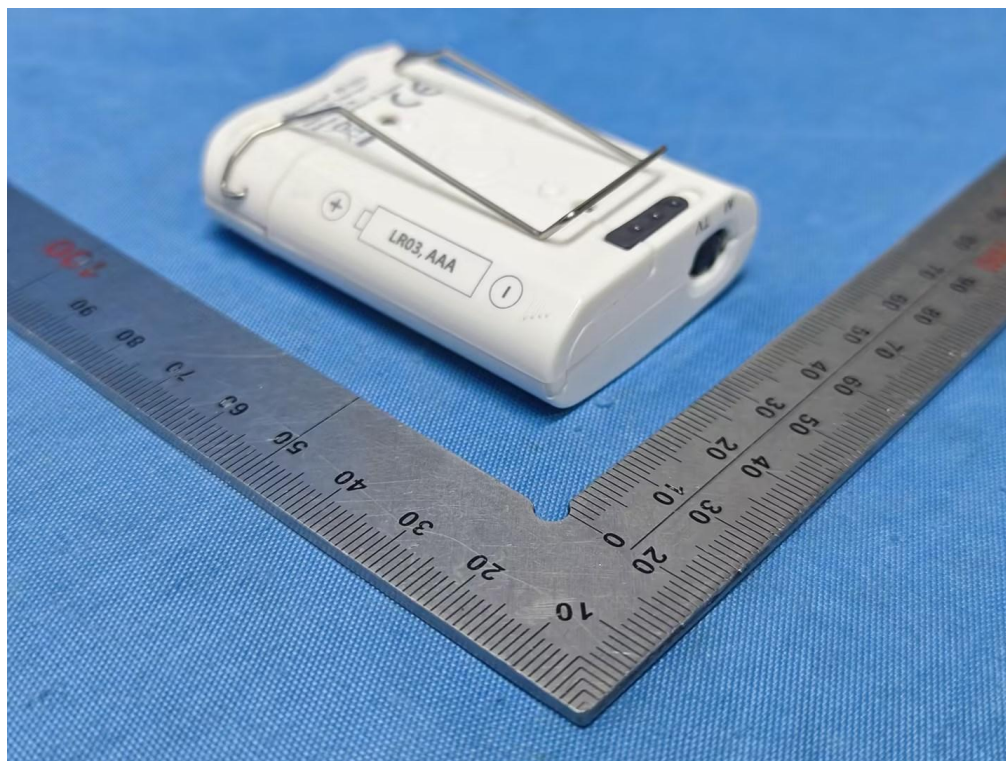


图 3 –外观照

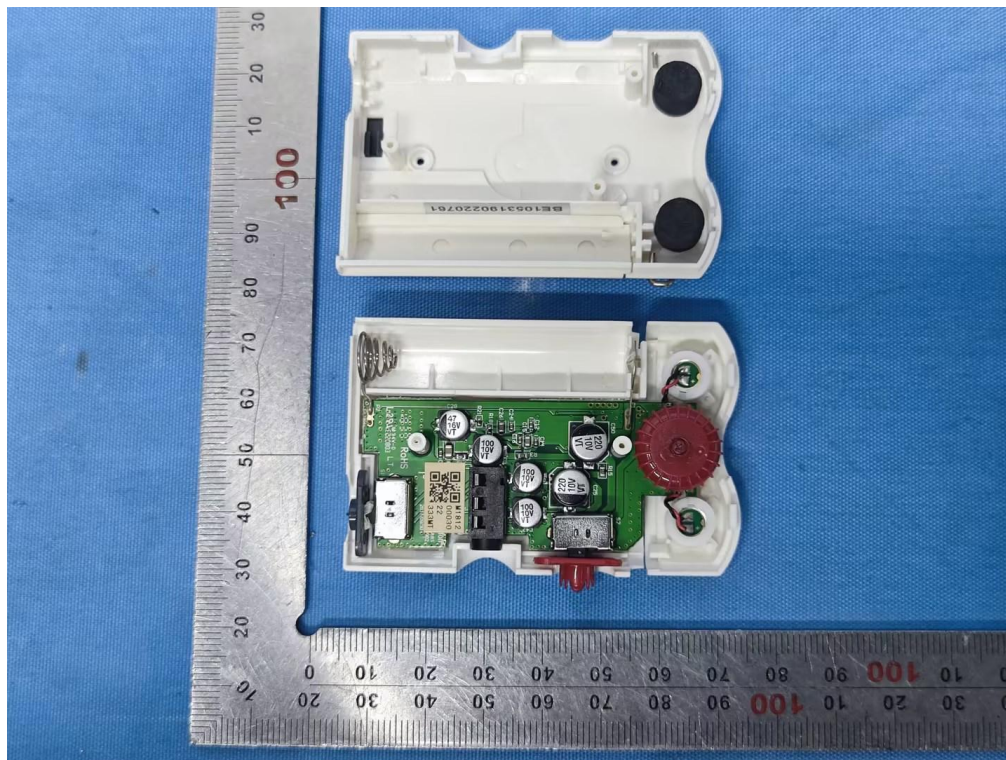


图 4 –拆机照

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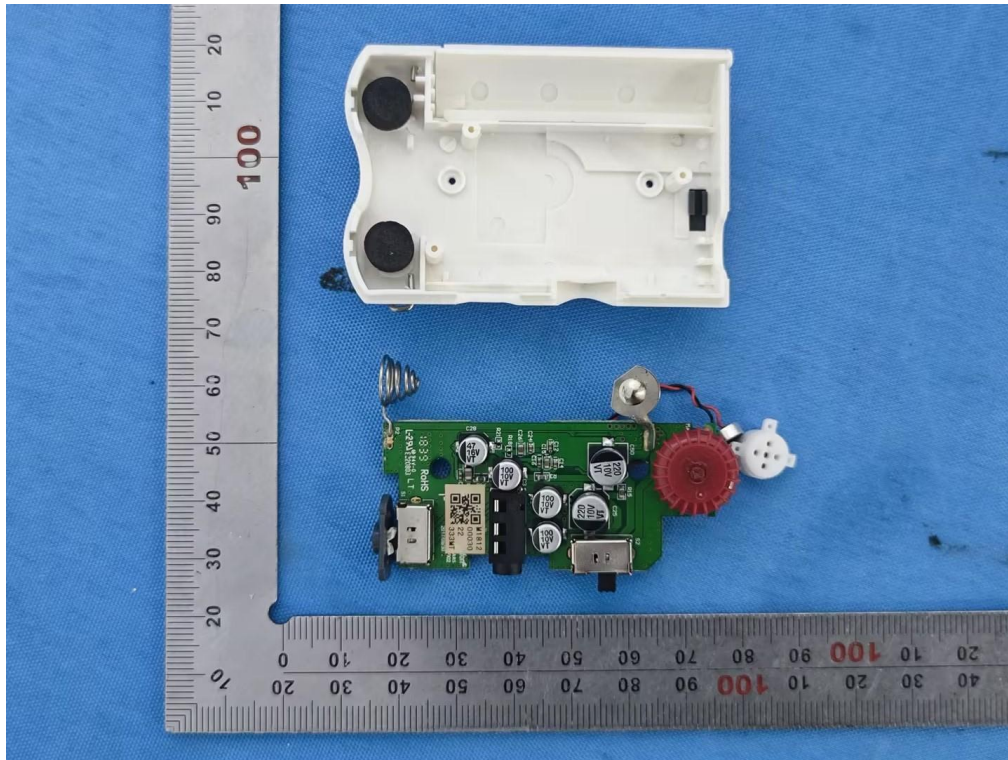


图 5 – 拆机照

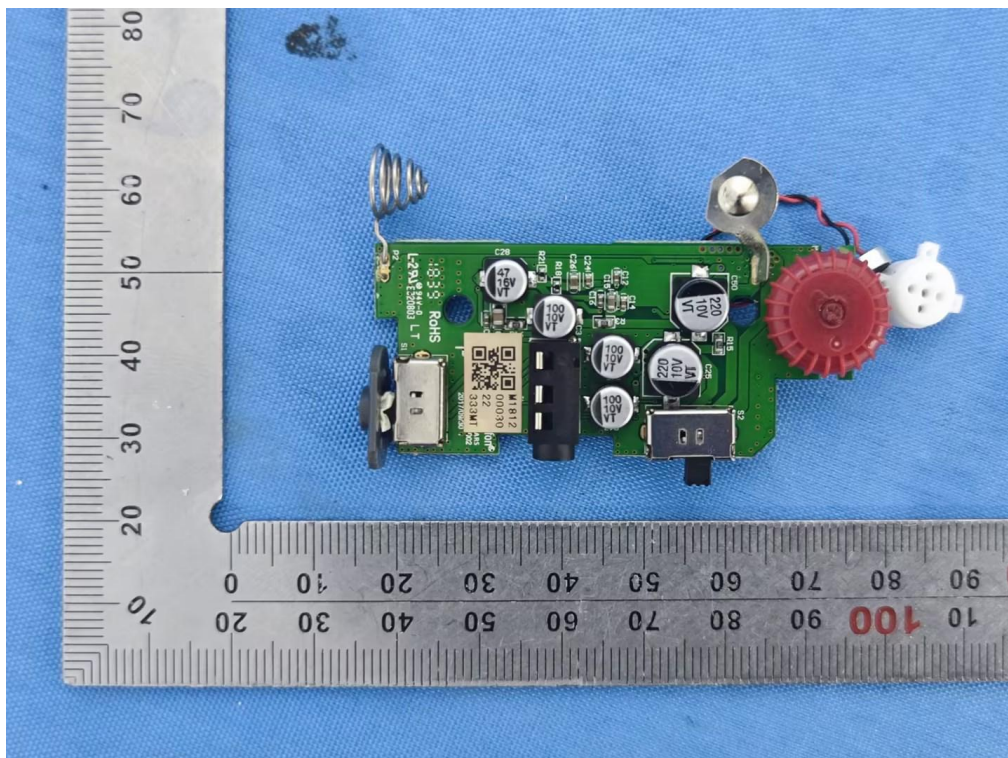


图 6 – 内部照

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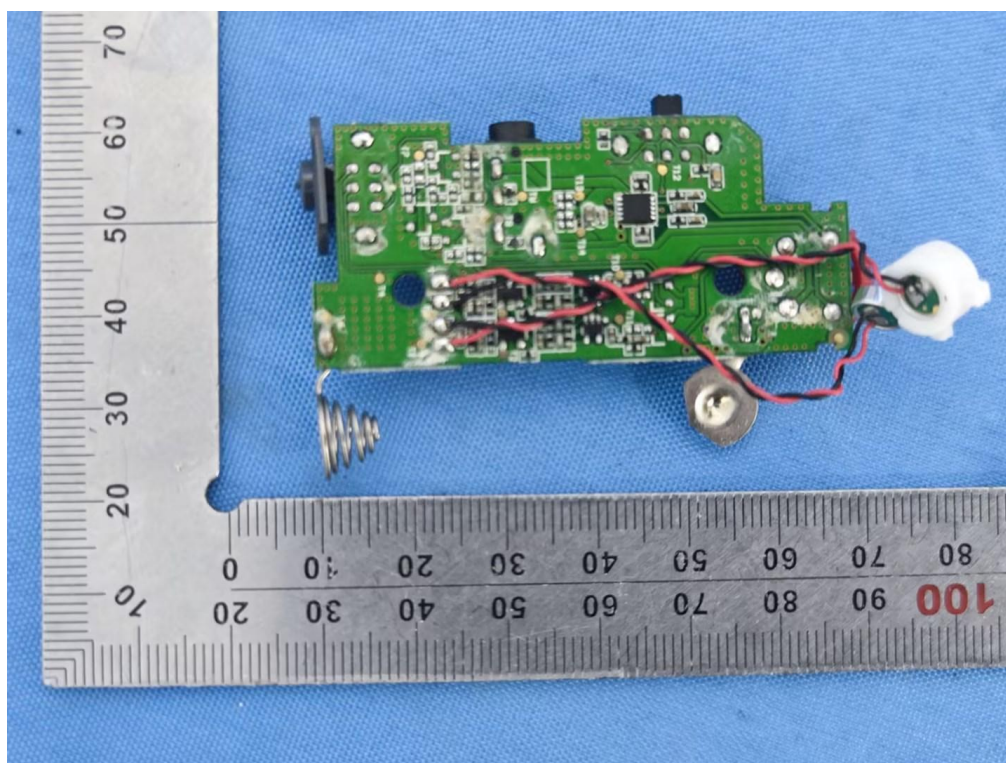


图 7 – 内部照

-----报告结束-----

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