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信息通信设备 安全与电磁兼容
认证实施规则

Information and Communication Equipment Safety and
Electromagnetic Compatibility Certification Implementation Rules

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精准通检测认证（广东）有限公司
Precise Testing & Certification (Guangdong) Co., Ltd.

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0 引言 Introduction

本规则由精准通检测认证（广东）有限公司发布，版权归精准通检测认证（广东）有限公司所有，任何组织及个人未经精准通检测认证（广东）有限公司许可，不得以任何形式全部或部分使用。

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本规则于 2024 年 5 月 2 日第一次修订，2026 年 10 月 20 日第二次修订，主要变化：①标准 GB 17625.1-2022 替代 GB 17625.1-2012；②增加国外标准 IEC 62368-1:2023；③增加证书有效性查询与认证信息报送要求（第 12 条）。

This rule was first revised on 2 May 2024 and for the second time on 20 October 2026. Main changes: 1) GB 17625.1-2022 replaces GB 17625.1-2012; 2) IEC 62368-1:2023 is added; 3) requirements for certificate validity verification and information reporting are added (Clause 12).

制定单位：精准通检测认证（广东）有限公司

Drafting Organization: Precise Testing & Certification (Guangdong) Co., Ltd.

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This rule is a public document. PTC shall make the current effective version of this rule and its revision records freely available on its official website (www.ptc-lab.com), accessible to any interested party without request. Information on the development, revision and withdrawal of this rule shall also be published on PTC's website and filed with the CNCA as required.

1 适用范围 Scope of Application

本规则适用于信息技术和通信技术领域内的信息通信设备的安全和电磁兼容认证。本规则适用于不再实施强制性认证管理的原 CCC 目录内 16 类产品，适用的产品类别见附件 1（共 16 类，含产品名称、对应原 CCC 类别、单元划分原则、依据标准与主送样数量）。

This rule applies to the safety and EMC certification of information and communication equipment. It applies to 16 categories of products originally listed in the CCC catalogue that are no longer subject to mandatory certification; the applicable product categories are listed in Annex 1 (16 categories, including product name, original CCC category, unit division principles, standards and main sample quantity).

2 认证模式 Certification Mode

认证模式：型式试验+获证后监督
Certification mode: Type test + post- certification supervision

认证的基本环节包括：
The basic steps of certification include:

A.认证的申请 Application for certification

B.产品型式试验 Product type test

C.认证结果评价与批准 Evaluation and approval of certification results

D.获证后的监督 Post- certification supervision

3 认证单元划分 Division of Certification Units

产品的电气结构、产品的安全件完全相同的可作为一个单元申请认证，原则上应明确同一单元内产品的具体型号。认证时具体产品申请单元划分说明见附件 1。

Products with identical electrical structures and identical safety components may be applied for certification as one unit. In principle, the specific models within the same unit should be clearly defined. The detailed explanation of product unit division for certification applications is provided in Annex 1.

原则上按产品型号申请认证。同一制造商、同一产品型号、不同生产厂的产品应分为不同的申请单元, 但型式试验仅在一个生产厂的样品上进行，必要时，其他生产厂应提供样品和相关资料供 PTC 进行一致性核查。

In principle, certification is applied by product model. Products of the same manufacturer and same product model but produced at different factories shall be treated as different application units. However, type testing is conducted only on samples from one factory. When necessary, other factories shall provide samples and relevant documentation for PTC to perform consistency verification.

4 认证委托 Certification Entrustment

4.1 认证委托的提出与受理 Submission and Acceptance of Certification Entrustment

认证委托人可通过 PTC 官方网络途径或书面向PTC 提出认证委托。认证委托人需按要求准确填写必要的企业信息和产品信息。

The certification client may submit the certification entrustment to PTC either through official online channels or in writing. The client must accurately complete the required enterprise and product information.

PTC 依据相关要求对认证申请进行审核后发出受理或不予受理的通知，或要求认证委托人整改后重新提出认证申请。

PTC will review the certification application in accordance with relevant requirements and issue a notice of acceptance or non- acceptance, or request the client to make corrections and resubmit the application.

资料评审一般不超过 15 个工作日。

Document review generally does not exceed 15 working days.

4.2 申请资料 Application Materials

认证委托人应在申请受理后，向 PTC 提交有关的申请资料和技术资料，包括：

After acceptance of the application, the certification client shall submit to PTC the relevant application and technical documents, including:

认证申请书；

— Certification application form;

认证委托人、生产者、生产厂的注册证明（如营业执照、组织机构代码证等）；

— Registration certificates of the client, producer, and manufacturer (such as business license, organization code certificate, etc.);

代理人委托书（如有）；

— Power of attorney for agents (if applicable);

认证协议书；

Certification Agreement;

产品描述信息，必要时包括：型号规格、技术参数、结构、关键元器件和/或材料清单、电气原理图、总装图、信息安全资料、软件规格书、同一认证单元内不同规格产品的差异说明等；

Product description information, including where necessary: model specifications, technical parameters, structure, list of key components and/or materials, electrical schematic

diagram, general assembly drawing, information security documentation, software specification, and explanations of differences among products of different specifications within the same certification unit;

认证委托人、生产者、生产企业之间签订的有关协议书或合同（如ODM/OEM协议）；对于变更申请，相关变更项目的证明文件；

Agreements or contracts signed between the certification client, producer, and manufacturing enterprise (such as ODM/OEM agreements); for change applications, supporting documents for the relevant changes;

其它需要的文件。

Other required documents.

认证委托人应对提供资料的真实性负责。

The certification client shall be responsible for the authenticity of the submitted materials.

PTC对认证委托人提供的认证资料进行管理、保存，并负有保密的义务。

PTC shall manage and preserve the certification materials provided by the client and is obligated to maintain confidentiality.

4.3 实施安排 Implementation Arrangement

PTC在受理后制定认证实施的具体方案，并将其通知认证委托人。认证实施的具体方案通常包括以下内容：

After acceptance, PTC shall formulate a specific plan for certification implementation and notify the certification client. The specific plan for certification implementation usually includes the following:

a) 需要提交的申请资料清单；

a) List of application materials to be submitted;

b) 实验室信息；

b) Laboratory information;

c) 有关PTC 工作人员的联系方式；

c) Contact details of relevant PTC personnel;

d) 其他需要说明的事项。

d) Other matters requiring clarification.

5 认证实施 Certification Implementation

5.1 型式试验 Type Test

5.1.1 型式试验方案 Type Test Plan

PTC在受理认证申请后，指定验室实施型式试验，由实验室制定型式试验方案，并告知认证委托人。试验和验证方案包括：样品要求和数量、检测和验证标准及项目、实验室信息等。

After acceptance of the certification application, PTC shall designate a laboratory to conduct the type test. The laboratory shall prepare the type test plan and inform the certification client. The test and verification plan includes: sample requirements and quantities, testing and verification standards and items, and laboratory information.

5.1.2 型式试验样品要求 Requirements for Type Test Samples

通常情况下，型式试验的样品由认证委托人按PTC的要求选送代表性样品用于检测或技术验证。必要时，PTC也可采取现场抽样/封样方式获得样品，委托人对样品负责。

Normally, representative samples for type testing are selected and submitted by the certification client according to PTC requirements for testing or technical verification. When necessary, PTC may obtain samples through on-site sampling/sealing, and the client shall be responsible for the samples.

5.1.2.1 送样原则 Sampling Principles

a) 申请单元中只有一个型号的，送本型号的样品。

If the application unit contains only one model, samples of that model shall be submitted.

b) 以系列产品为同一申请单元申请认证时，应从中选取具有代表性的型号，并且选送的样品应覆盖系列产品的安全要求和电磁兼容要求，不能覆盖时，还应选送申请单元内的其它产品做补充试验。

When a series of products is applied for certification as one unit, representative models shall be selected. The submitted samples shall cover the safety and EMC requirements of the series. If coverage is insufficient, additional products within the unit shall be submitted for supplementary testing.

5.1.2.2 样品数量 Sample Quantity

申请人负责将样品送至指定检测机构。

applicant is responsible for delivering samples to the designated testing institution.

整机产品送样数量见附件 1（主检型号 2 台，覆盖型号各 1 台）；随整机单独检测的关键零部件 / 元器件送样数量及要求见附件 2。

The number of complete product samples is specified in Annex 1 (2 units of the main model and 1 unit of each covering model); the number and requirements for key components tested separately are specified in Annex 2.

5.1.2.3 样品及资料处置 Handling of Samples and Documentation

试验结束并出具试验报告后，有关资料由检测机构保存，样品按PTC有关规定处置。

After completion of testing and issuance of the test report, relevant documentation shall be retained by the testing institution, and samples shall be disposed of in accordance with PTC regulations.

5.1.3 型式试验依据标准 Standards for Type Test

5.1.3.1 国内标准 Domestic Standards

1) 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》

GB 4943.1-2022 Audio/Video, Information Technology and Communication Technology Equipment – Part 1: Safety Requirements

2) GB 17625.1-2022《电磁兼容 限值 第1 部分：谐波电流发射限值（设备每相输入电流≤16A）》

GB 17625.1-2022 Electromagnetic Compatibility – Limits – Part 1: Limits for Harmonic Current Emissions (equipment input current per phase ≤16A)

3) GB/T 9254.1-2021《信息技术设备、多媒体设备和接收机电磁兼容 第1部分：发射要求》

GB/T 9254.1-2021 Electromagnetic Compatibility of Information Technology Equipment, Multimedia Equipment and Receivers – Part 1: Emission Requirements

4) GB/T 9254.2-2021《信息技术设备、多媒体设备和接收机电磁兼容 第2部分：抗扰度要求》

GB/T 9254.2-2021 Electromagnetic Compatibility of Information Technology Equipment, Multimedia Equipment and Receivers – Part 2: Immunity Requirements

5) GB/T 19483-2016 《无绳电话的电磁兼容性要求及测量方法》

GB/T 19483-2016 EMC Requirements and Measurement Methods for Cordless Telephones

6) YD/T 993-2016《电信终端设备防雷击技术要求及试验方法》

YD/T 993-2016 Technical Requirements and Test Methods for Lightning Protection of Telecommunication Terminal Equipment

7) GB/T 22450.1-2008《900/1800MHz TDMA数字蜂窝移动通信系统电磁兼容性限制和测量方法第一部分：移动台及其辅助设备》

GB/T 22450.1-2008 EMC Limits and Measurement Methods for 900/1800MHz TDMA Digital Cellular Mobile Communication System – Part 1: Mobile Stations and Ancillary Equipment

8) GB/T 19484.1-2013《800MHz/2GHz cdma2000 数字蜂窝移动通信系统的电磁兼容性要求和测量方法第1 部分：用户设备及其辅助设备》

GB/T 19484.1-2013 EMC Requirements and Measurement Methods for 800MHz/2GHz cdma2000 Digital Cellular Mobile Communication System – Part 1: User Equipment and Ancillary Equipment

9) YD/T 1592.1-2012《2GHz TD-SCDMA 数字蜂窝移动通信系统电磁兼容性要求和测量方法第1 部分：用户设备及其辅助设备》

YD/T 1592.1-2012 EMC Requirements and Measurement Methods for 2GHz TD-SCDMA Digital Cellular Mobile Communication System – Part 1: User Equipment and Ancillary Equipment

10)YD/T 1595.1-2012《2GHz WCDMA 数字蜂窝移动通信系统电磁兼容性要求和测量方法第1 部分：用户设备及其辅助设备》

YD/T 1595.1-2012 EMC Requirements and Measurement Methods for 2GHz WCDMA Digital Cellular Mobile Communication System – Part 1: User Equipment and Ancillary Equipment

11)YD/T 2583.14-2013 《蜂窝式移动通信设备电磁兼容性要求和测量方法第14 部分：LTE 用户设备及其辅助设备》

YD/T 2583.14-2013 EMC Requirements and Measurement Methods for Cellular Mobile Communication Equipment – Part 14: LTE User Equipment and Ancillary Equipment

12)YD/T 2583.18-2024 《蜂窝式移动通信设备电磁兼容性能要求和测量方法第18部分：5G用户设备和辅助设备》

YD/T 2583.18-2024 EMC Performance Requirements and Measurement Methods for Cellular Mobile Communication Equipment – Part 18: 5G User Equipment and Ancillary Equipment

注：GB/T 22450.1-2008、YD/T 1592.1-2012 仅适用于仍在网运行的存量制式产品；对已停止运营的制式，认证委托人应选择与产品实际无线制式相对应的现行标准。

Note: GB/T 22450.1-2008 and YD/T 1592.1-2012 apply only to legacy systems still in operation; for discontinued systems the applicant shall select the current standard corresponding to the actual radio technology of the product.

5.1.3.2 出口标准 Export Standards

1）IEC 62368-1:2023《音频 / 视频、信息和通信技术设备 第 1 部分：安全要求》

IEC 62368-1:2023 Audio/video, information and communication technology equipment – Part 1: Safety requirements

2）IEC 61000-3-2:2018《电磁兼容（EMC）第3-2部分：限值谐波电流发射限值（设备每相输入电流≤16A）》

IEC 61000-3-2:2018 《Electromagnetic compatibility (EMC)-Part 3-2:Limits-Limits for harmonic current emissions(equipment input current<1 6 A per phase)》

3）CISPR 32:2015+A1:2019《多媒体设备的电磁兼容发射要求》

CISPR 32:2015+A1:2019 《Electromagnetic compatibility of multimedia equipment - Emission requirements》

4）CISPR 35:2016《多媒体设备的电磁兼容抗扰度要求》

CISPR 35:2016《Electromagnetic compatibility of multimedia equipment - Immunity requirements》

5）ETSI EN 301 489-1 V2.2.3 (2019-11)无线电设备和服务的电磁兼容性（EMC）标准第1部分：通用技术要求电磁兼容协调标准

5）ETSI EN 301 489-1 V2.2.3 (2019-11)无线电设备和服务的电磁兼容性（EMC）标准第1部分：通用技术要求电磁兼容协调标准

ETSI EN 301 489-1 V2.2.3 (2019-11) ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for ElectroMagnetic Compatibility

6）ETSI EN 301 489-6 V2.2.1 (2019-04) 无线电设备和服务的电磁兼容性（EMC）标准第6部分：数字增强型无绳通信（DECT）设备的特定条件

ETSI EN 301 489-6 V2.2.1 (2019-04) ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 6: Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment.

7）ETSI EN 301 489-24无线电设备和服务的电磁兼容性（EMC）标准第24部分：IMT-2000 CDMA直接扩频（UTRA和E-UTRA）移动和便携（UE）无线电及辅助设备的特定条件

ETSI EN 301 489-24 ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 24: Specific conditions for IMT-2000 CDMA Direct Spread (UTRA and E-UTRA) for Mobile and portable (UE) radio and ancillary equipment

8）ETSI EN 301 489-52 V1.3.1 (2024-11)无线电设备和服务的电磁兼容性（EMC）标准第52部分：蜂窝通信用户设备（UE）无线电及辅助设备的特定条件电磁兼容协调标准

ETSI EN 301 489-52 V1.3.1 (2024-11) ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication User Equipment (UE) radio and ancillary equipment; Harmonised Standard for ElectroMagnetic Compatibility

9）ITU-T K.21《用户终端设备的过电压和过电流防护》

ITU-T K.21Overvoltage and overcurrent protection of customer terminal equipment

10）ITU-T P.64 《本地电话系统灵敏度/频率特性的测定》

ITU-T P.64 Determination of sensitivity/frequency characteristics of local telephone systems

11）ETSI EN 301 511 《全球移动通信系统（GSM）；移动台（MS）接入无线电频谱的协调标准》

ETSI EN 301 511 Global System for Mobile communications (GSM); Harmonised Standard for access to radio spectrum for Mobile Stations (MS)

12）3GPP TS 51.010 《移动台（MS）一致性规范》

3GPP TS 51.010 Mobile Station (MS) conformance specification

13）ETSI TS 101 293《数字蜂窝通信系统（Phase 2+）；独立设备类型要求和互操作性：特殊一致性测试功能》

ETSI TS 101 293 Digital cellular communication systems (Phase 2+); Standalone equipment type requirements and interoperability: Special conformance test functions

14）3GPP2 C.S0011 《CDMA 2000扩频移动台推荐性最小性能标准》

3GPP2 C.S0011 Recommended Minimum Performance Standards for cdma2000 Spread Spectrum Mobile Stations

15）ETSI EN 301 908-4《IMT蜂窝网络；用户设备（UE）接入无线电频谱的协调标准第4部分：CDMA多载波（cdma2000）（UE）》

ETSI EN 301 908-4 IMT cellular networks; Harmonised Standard for access to radio spectrum for User Equipment (UE) - Part 4: CDMA Multi-Carrier (cdma2000) (UE)

16）3GPP TS 34.124 / ETSI TS 134 124《全球移动通信系统（UMTS）；移动终端和附属设备的电磁兼容性（EMC）要求》

3GPP TS 34.124 / ETSI TS 134 124 Universal Mobile Telecommunications System (UMTS); Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment

17）3GPP TS 36.101《演进的通用陆地无线接入（E-UTRA）；用户设备（UE）无线电发射和接收》

3GPP TS 36.101 Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception

18）3GPP TS 36.508《演进的通用陆地无线接入（E-UTRA）和演进的通用陆地无线接入网（E-UTRAN）；用户设备（UE）一致性测试通用测试环境》

3GPP TS 36.508 Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Common test environments for User Equipment (UE) conformance testing

19）3GPP TS 36.509《演进的通用陆地无线接入（E-UTRA）和演进的通用陆地无线接入网（E-UTRAN）；终端逻辑测试接口；特殊一致性测试功能》

3GPP TS 36.509 Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Terminal logical test interface; Special conformance testing functions

20）ETSI TS 138 521-2《5G NR用户设备一致性规范；无线电发射和接收第2部分：频率范围2独立组网》

ETSI TS 138 521-2 5G NR User Equipment (UE) conformance specification; Radio transmission and reception; Part 2: Range 2 standalone

21）ETSI TS 138 521-3《5G NR用户设备一致性规范；无线电发射和接收第3部分：频率范围1和2与其他无线电的互通操作》

ETSI TS 138 521-3 5G NR User Equipment (UE) conformance specification; Radio transmission and reception; Part 3: Range 1 and Range 2 Interworking operation with other radios

22）CISPR 16 系列《无线电骚扰和抗扰度测量设备和测量方法规范》

CISPR 16 Specification for equipment and methods for measuring radio disturbance and immunity

申请人可从以上标准中任选，可单独选择安全标准或电磁兼容标准。

Applicants may select from the above standards, choosing either safety standards, EMC standards, or both.

5.1.4 型式试验的实施 Implementation of Type Test

5.1.4.1 试验项目及要求电子产品及其附件的安全指标应满足GB4943.1 标准中规定的全部适用要求。

Test Items and Requirements: The safety indicators of electronic products and their accessories shall meet all applicable requirements specified in the GB 4943.1 standard.

电子产品及其附件的电磁兼容性指标应满足申请人选择标准中规定的全部适用要求。

The electromagnetic compatibility indicators of electronic products and their accessories shall meet all applicable requirements specified in the standards chosen by the applicant.

5.1.4.2 试验方法 Test Methods

按照5.1.3标准的规定以及其引用的检测方法和/或标准进行试验。

Tests shall be conducted in accordance with the provisions of the standards listed in 5.1.3 and the referenced test methods and/or standards.

5.1.4.3 型式试验时限 Time Limit for Type Test

型式试验时间一般为30个工作日（因检验或验证项目不合格，企业进行整改和复测的时间不计算在内）。

The type test period is generally 30 working days (time for rectification and retesting due to non- conformities in inspection or verification items is not included).

必要时，实验室可安排技术人员对认证产品进行现场技术验证。

When necessary, the laboratory may arrange technical personnel to conduct on- site technical verification of the certified product.

5.1.4.4 判定 Determination

型式试验应符合产品标准的要求。

Type tests shall comply with the requirements of product standards.

当型式试验或验证项目部分不合格时，原则上，整改应在6 个月内完成，超过该期限的视为认证终止。

If certain type test or verification items fail, rectification shall, in principle, be completed within 6 months. Exceeding this period shall be regarded as termination of certification.

5.1.5 检测报告 Test Report

实验室按照标准完成型式试验后，按照规定出具检测和验证报告。

After completing the type test in accordance with the standards, the laboratory shall issue the test and verification report as required.

5.1.6 关键零部件的要求 Requirements for Key Components

关键零部件/元器件见信息通信设备描述（附件4），对电磁兼容性能有影响的主要零部件见附件 3。

Key components/parts are listed in the description of information and communication equipment (Annex 4), and major components affecting electromagnetic compatibility performance are listed in Annex 3.

整机内的关键零部件/元器件（附件 2）应按对应要求单独送样进行检测，关键零部件/元器件已获得强制性产品认证证书/自愿性认证证书的，可免于单独检测，但仍应提供样品和相关资料供 PTC 核查。

Key components/parts within the complete product (Annex 2) shall be submitted separately for testing according to corresponding requirements. If key components/parts have already obtained compulsory product certification certificates or voluntary certification certificates, separate testing may be exempted, but samples and relevant documentation shall still be provided for PTC verification.

为确保获证产品的一致性，关键零部件/元器件的技术参数、规格型号、制造商、生产厂发生变更时， 持证人应及时提出变更申请，并送样进行试验或提供书面资料确认，经 PTC 批准后方可在获证产品中使用。

To ensure consistency of certified products, when technical parameters, specifications, models, manufacturers, or production plants of key components/parts change, the certificate holder shall promptly submit a change application and provide samples for testing or written documentation for confirmation. Such changes may only be used in certified products after approval by PTC.

5.2 认证评价与决定 Certification Evaluation and Decision

PTC对申请资料、型式试验结论、有关资料/信息等进行综合评价，做出认证决定。对符合认证要求的，批准并颁发认证证书。

PTC shall conduct a comprehensive evaluation of the application materials, type test conclusions, and relevant documents/information, and make a certification decision. For applications that meet certification requirements, approval shall be granted and a certification certificate issued.

5.3 认证时限 Certification Time Limit

认证时限指自受理认证申请之日起至颁发认证证书时止所实际发生的工作日。包括型式试验时间、认证结果评价和批准时间，及证书制作时间。

The certification time limit refers to the actual working days from the date of acceptance of the certification application to the issuance of the certification certificate. This includes the time for type testing, evaluation and approval of certification results, and certificate preparation.

PTC对认证各环节的时限做出明确规定，并确保相关工作按时限要求完成。认证委托人须对认证活动予以积极配合。一般情况下，自受理认证委托起80天内向委托人出具认证证书（认证委托人准备资料、送样、型式试验整改等时间不计算在内）。

PTC shall clearly define the time limits for each stage of certification and ensure that the relevant work is completed within the specified time. The certification client must actively cooperate with certification activities. In general, PTC shall issue the certification certificate to the client within 80 days from acceptance of the certification entrustment (time for preparation of materials, sample submission, rectification of type test failures, etc. is not included).

型式试验时间一般为30个工作日（因检测项目不合格整改和复试时间不计算在内）。当整机零部件和材料需要进行随机试验时，如果其试验所需时间超过整机试验时间，型式试验时间按零部件/材料最长的试验时间计算。

The type test period is generally 30 working days (time for rectification and retesting due to non-conformities is not included). When complete product components and materials require random testing, if the time required for such testing exceeds the time for complete product testing, the type test period shall be calculated based on the longest testing time of the components/materials.

6 获证后的监督 Post-Certification Supervision

6.1 获证后监督方式和频次

6.1 Methods and Frequency of Post-Certification Supervision

获证后监督方式包括：生产现场抽取样品检测或市场抽样检测两种方式之一或组合。

Post-certification supervision methods include either production site sampling and testing, market sampling and testing, or a combination of both.

通常情况下，对获证企业及产品，从颁发首张证书之日起12个月内进行第一次监督检测，以后每年至少一次。

In general, for certified enterprises and products, the first supervision test shall be conducted within 12 months from the date of issuance of the initial certificate, and thereafter at least once per year.

6.2 生产现场抽取样品检测 Production Site Sampling and Testing

6.2.1 生产现场抽取样品检测原则 Principles of Production Site Sampling and Testing

对获证产品进行生产现场抽样检测，抽样检测的样品应在生产合格品中随机抽取。

Certified products shall be sampled randomly from qualified products at the production site.

6.2.2 生产现场抽取样品检测内容Content of Production Site Sampling and Testing

认证检测采用的标准所规定的项目均可作为抽样检测项目。

All items specified in the standards used for certification testing may be selected as sampling test items.

6.3 市场抽样检测 Market Sampling and Testing

6.3.1市场抽样检测原则 Principles of Market Sampling and Testing

对获证产品必要时，进行市场抽样。认证委托人、生产者、生产企业应积极配合，如提供获证产品的销售信息，以及使用方、经销商和/或销售网点信息等。

Certified products may be subject to market sampling when necessary. The certification client, producer, and manufacturer shall actively cooperate, such as by providing sales information of certified products, as well as information on users, distributors, and/or sales outlets.

6.3.2市场抽样检测内容 Content of Market Sampling and Testing

市场抽样包括产品一致性核查和/或产品检测。认证检测采用的标准所规定的项目均可作为抽样检测项目。PTC 根据不同产品的质量情况，进行部分或全部项目的检测。

Market sampling includes product consistency verification and/or product testing. All items specified in the standards used for certification testing may be selected as sampling test items. PTC shall conduct partial or full testing depending on the quality status of different products.

6.4 非例行监督检测 Non-Routine Supervision Testing

持证人若发生下列情况之一，PTC将增加非例行监督检测：

PTC shall increase non-routine supervision testing if any of the following situations occur:

1）获证产品发生严重质量问题或用户提出严重投诉、产品问题较多的持证人；

1. Certified products experience serious quality problems or users raise serious complaints, or the certificate holder has frequent product issues.

2）有足够的信息表明持证人因变更组织机构、生产条件、管理体系等可能影响产品符合性或一致性时。

2. Sufficient information indicates that changes in organizational structure, production conditions, or management systems of the certificate holder may affect product compliance or consistency.

6.5 获证后监督结果的评价
6.5 Evaluation of Post-Certification Supervision Results

PTC对抽取样品的检测结论和有关资料/信息进行综合评价。评价通过，可继续保持认证证书、使用认证标志；评价不通过，PTC应当根据相应情形做出暂停或撤销认证证书的处理，并予公布。

PTC shall conduct a comprehensive evaluation of the conclusions from sampled product testing and relevant documents/information. If the evaluation is passed, the certification certificate and use of the certification mark may continue. If the evaluation is not passed, PTC shall suspend or revoke the certification certificate according to the circumstances and make the decision public.

7 认证证书 Certification Certificate

7.1 认证证书的保持 Maintenance of Certification Certificate

本文件覆盖的认证证书有效期一般为 3 年。有效期内，证书的有效性依赖 PTC 的获证后监督获得保持。

The certification certificates covered by this document are generally valid for three years. During the validity period, the continued validity of the certificate depends on post-certification supervision conducted by PTC.

ODM 和 OEM 证书的有效期按其相关协议中的有效期，但不超过 3 年；ODM 证书的有效期还应不超过初始认证证书的有效期。

The validity period of ODM and OEM certificates shall follow the validity period specified in their relevant agreements, but shall not exceed three years; the validity period of an ODM certificate shall also not exceed that of the initial certification certificate.

认证证书有效期届满，需要延续使用的，认证委托人应当在认证证书有效期届满前90天内提出认证委托。证书有效期内最后一次获证后监督结果合格的，PTC在接到认证委托后直接换发新证书。

When the validity period of a certification certificate expires and continued use is required, the certification client shall submit a certification entrustment within 90 days prior to expireation. If the result of the last post-certification supervision within the validity period is qualified, PTC shall directly issue a new certificate upon receipt of the certification entrustment.

7.2 认证证书覆盖产品的变更Changes to Products Covered by the Certification Certificate

产品获证后，如果其产品发生变更以及认证证书的相关信息、标准等发生变更时，认证委托人应向PTC提出变更批准/备案的申请。

After certification, if the product undergoes changes or if relevant information, standards, etc. of the certification certificate change, the certification client shall submit an application for approval/record of change to PTC.

7.2.1变更委托和要求 Change Entrustment and Requirements

以下内容发生变更时，认证委托人应向PTC提交变更申请：

The certification client shall submit a change application to PTC when any of the following occur:

a. 获证产品名称、型号命名方式、技术参数更改；
a. Changes to the certified product name, model naming method, or technical parameters;

b. 在证书上增加或减少同种产品其它型号；
b. Addition or removal of other models of the same product on the certificate;

c. 产品认证所依据的国家标准、认证规则变化；
c. Changes to national standards or certification rules on which product certification is based;

d. 认证委托人、生产者、生产企业名称和/或地址更改；
d. Changes to the name and/or address of the certification client, producer, or manufacturer;

e. 产品中关键零部件、材料更改；
e. Changes to key components or materials of the product;

f. 软件内容，版本变化；
f. Changes to software content or version;

g. 产品的关键元器件、结构或材料发生了涉及本规则涉及检测标准项目的变化；
g. Changes to key components, structure, or materials of the product that affect the test items specified in these rules;

h. 生产企业的质量体系发生变化（例如所有权、组织机构或管理者发生了变化）；
h. Changes to the quality system of the manufacturer (such as changes in ownership, organizational structure, or management personnel);

i. 其他。

i. Other changes.

对于隶属同一生产者的多个生产企业的相同产品、相同内容的变更，认证委托人可仅提交一次变更委托，PTC对变更涉及的认证证书予以关联使用。

For identical products and identical changes across multiple manufacturing enterprises belonging to the same producer, the certification client may submit a single change entrustment, and PTC shall apply the change to the relevant certification certificates accordingly.

7.2.2变更评价和批准 Change Evaluation and Approval

PTC根据变更的内容，对提供的资料进行评价，确定是否可以批准变更。如需样品

检测（和/或技术验证），应在检测（和/或技术验证）合格后方能批准变更。原则上，应以最初进行全项型式试验的代表性型号样品作为变更评价的基础。

PTC shall evaluate the submitted materials based on the content of the change to determine whether the change can be approved. If sample testing (and/or technical verification) is required, approval shall only be granted after the testing (and/or technical verification) is qualified. In principle, the representative model sample originally subjected to full type testing shall serve as the basis for change evaluation.

7.2.3变更备案 Change Record

对于不涉及关键元器件、结构和材料的变更，在不需要提供样品试验的情况下，可由PTC认可的生产企业认证技术负责人确认批准，保存相应记录并报PTC备案。

For changes not involving key components, structure, or materials, and where sample testing is not required, approval may be confirmed by the certification technical manager of the manufacturer recognized by PTC, with corresponding records kept and reported to PTC for filing.

认证技术负责人由生产者任命/授权，并经PTC考核认定；认证技术负责人应具有独立行使其职能的权力，具备实施其职能的能力；认证技术负责人不得兼任其他生产者的认证技术负责人；认证技术负责人变更时，生产者负责上报PTC并重新申请考核认定。

The certification technical manager shall be appointed/authorized by the producer and recognized by PTC through assessment. The certification technical manager shall have independent authority to perform their duties and the capability to do so. The certification technical manager shall not concurrently serve as the certification technical manager for other producers. When the certification technical manager changes, the producer shall report to PTC and reapply for assessment and recognition.

7.3 认证证书覆盖产品的扩展Extension of Products Covered by the Certification Certificate

认证委托人需要扩展已经获得的认证证书覆盖的产品范围时，应向PTC提出变更申请。

When the certification client needs to extend the scope of products covered by an existing certification certificate, they shall submit a change application to PTC.

PTC根据认证委托人提供的扩展产品有关技术资料，核查扩展产品与原认证产品的差异，确认原认证结果对扩展产品的有效性，并针对差异做补充试验或生产现场产品进行检查。核查通过的，PTC根据认证委托人的要求单独颁发或换发认证证书。

Based on the technical documentation provided by the certification client for the extended products, PTC shall verify the differences between the extended products and the originally certified products, confirm the validity of the original certification results for the extended products, and conduct supplementary tests or production site inspections as necessary. If the verification is passed, PTC shall issue or reissue the certification certificate separately according to the client's request.

原则上，应以最初进行全项型式试验的代表性型号样品作为扩展评价的基础。

In principle, the representative model sample originally subjected to full type testing shall serve as the basis for extension evaluation.

7.4 认证证书的注销、暂停和撤销Cancellation, Suspension, and Revocation of Certification Certificate

7.4.1 发生下列情形之一，本机构暂停认证证书并书面通知持证人：a）获证后监督检测结论不合格，经整改仍不符合要求；b）关键零部件、结构、材料发生变更未按规定申请并获得批准；c）无正当理由未在规定期限内接受获证后监督；d）未按期缴纳认证费用；e）获证产品与认证批准状态不一致且未在限期内纠正；f）持证人主动申请。暂停期限最长 6 个月。

PTC shall suspend the certificate, with written notice, where: a) surveillance test results are unsatisfactory and remain so after correction; b) changes to key components, construction or materials are made without application and approval; c) surveillance is refused without justification; d) fees remain unpaid; e) the certified product is inconsistent with the approved status and not corrected within the given period; f) the holder applies. Suspension shall not exceed 6 months.

7.4.2 暂停期间持证人应停止使用认证证书和认证标志；完成整改后可提出恢复申请，经核查（必要时含检测）合格后恢复，恢复日期为核查合格之日。

During suspension the holder shall cease use of the certificate and the mark; reinstatement may be applied for after correction and shall take effect on the date of satisfactory verification.

7.4.3 发生下列情形之一，本机构撤销认证证书：

PTC shall withdraw the certificate where:

a）暂停期满未完成整改或整改后仍不合格；

correction is not completed within the suspension period or remains unsatisfactory;

b）以欺骗、贿赂等不正当手段获得认证；

certification was obtained by fraud or bribery;

c）转让、伪造、变造认证证书或认证标志；

the certificate or mark is transferred, forged or altered;

d）获证产品存在严重缺陷造成人身、财产损害。

the product causes personal injury or property damage due to serious defects.

7.4.4 持证人主动放弃认证、产品停产且不再恢复生产、或企业依法注销的，本机构注销认证证书。

PTC shall cancel the certificate upon voluntary withdrawal by the holder, discontinuation of production, or deregistration of the enterprise.

7.4.5 上述处理按 PTCRZ-QP-12a《产品认证 批准、保持、延长、暂停、恢复、撤销和注销的条件和程序》执行；作出暂停、撤销、注销决定的同时按第 12 条报送证书状态信息，并在本机构网站公告。

Handling shall follow PTCRZ-QP-12a; status information shall be reported per Clause 12 simultaneously with the decision and announced on PTC's website.

7.5 认证证书的使用 Use of Certification Certificate

持证人应遵守PTC有关产品认证证书管理的相关规定。

Certificate holders shall comply with PTC's relevant regulations on the management of product certification certificates.

8 认证标志 Certification Mark

认证标志的管理、使用应当符合PTC有关认证标志管理的相关规定。

The management and use of the certification mark shall comply with PTC's relevant regulations on certification mark management.

8.1 准许使用的标志式样 Approved Mark Styles

式样如下图所示：

The permitted styles are as shown in the figure:

8.2 标注方式 Marking Methods

如施加标志，证书持有者应按照PTC有关产品认证标识的相关规定执行。可以在产品本体、铭牌、说明书、包装上施加认证标志。

When applying the mark, certificate holders shall follow PTC's relevant regulations on product certification marks. The certification mark may be affixed to the product body, nameplate, instruction manual, or packaging.

9 收费 Fees

认证收费按《认证收费规则》收取。

Certification fees shall be collected in accordance with the *Certification Fee Rules*.

10 认证责任 Certification Responsibility

PTC应对做出的认证结论负责。

PTC shall be responsible for the certification conclusions it issues.

指定实验室应对检测结果和检测报告负责。

Designated laboratories shall be responsible for the test results and test reports.

认证委托人应对其所提交的委托资料及样品的真实性、合法性负责。

Certification clients shall be responsible for the authenticity and legality of the materials and samples they submit.

11 技术争议及申诉 Technical Disputes and Appeals

认证委托人提出的申诉、投诉和争议按照PTC的相关规定处理。

Appeals, complaints, and disputes raised by certification clients shall be handled in accordance with PTC's relevant regulations.

12 认证证书有效性查询与认证信息报送 Validity Verification of Certification Certificates and Reporting of Certification Information

12.1 本机构在官方网站（www.ptc-lab.com，下同）"证书查询"栏目，向公众提供免费、实时、便捷的信息通信设备认证证书有效性查询服务，无需注册、无需付费；查询结果至少包括证书编号、认证委托人名称、生产者名称、生产企业名称及地址、产品名称与型号、认证依据标准名称与版本、认证模式、发证日期、证书有效期及证书状态（有效 / 暂停 / 撤销 / 注销）。

PTC shall provide, on its official website (www.ptc-lab.com, the same below) under the "Certificate Verification" section, a free, real-time and easily accessible service for verifying the validity of information and communication equipment certificates, without registration or payment; the result shall at least include the certificate number, client name, producer name, manufacturer name and address, product name and model, certification standards and versions, certification mode, date of issue, validity period and certificate status (valid / suspended / withdrawn / cancelled).

12.2 本规则为本机构自行制定并发布的认证规则，依据本规则出具的认证证书按 12.1 规定的方式查询；本机构不以提示引导、链接跳转或任何其他方式，将国家认监委网站作为本机构认证证书有效性的查询方式。

This rule is a certification scheme developed and issued by PTC itself; certificates issued under this rule shall be verified as specified in 12.1, and PTC shall not, by prompts, hyperlinks, redirection or any other means, use the CNCA website as the means of verifying the validity of its own certificates.

12.3 本机构将 12.1 规定的查询方式报送国家认监委并向社会公开，查询方式发生变更的于变更前 10 个工作日在网站公告。

PTC shall report the verification method in 12.1 to the CNCA and make it public, and shall announce any change on its website 10 working days in advance.

12.4 本机构按《市场监管总局关于加强认证信息报送和认证证书信息查询管理的公告》（2026 年第 28 号）通过"认证认可业务信息统一上报平台"报送下列信息：

In accordance with Announcement No. 28 of 2026 of the State Administration for Market Regulation, PTC shall report the following through the unified reporting platform for certification and accreditation:

a）认证计划，于计划实施 3 日前报送，计划变更的于原计划开始日期前 1 日 23 点前报送，计划撤销的于实施前报送，计划终止的于实施结束前报送；

certification plans, 3 days before implementation, changes before 23:00 of the day preceding the original start date, cancellations before implementation and terminations before the end of implementation;

b）认证结果信息，于结果产生后 1 日内报送认证活动、认证人员、认证对象信息；

certification results, within 1 day after the result is generated, covering certification activities, personnel and objects;

c）证书状态信息，于出具认证证书以及作出暂停、注销、撤销证书决定的同时报送；

certificate status, at the same time as the certificate is issued or a decision to suspend, cancel or withdraw is made;

d）分支机构信息，于设立后 10 日内报送。

branch information, within 10 days after establishment.

12.5 本机构对报送信息的全面性、真实性、准确性负责，不得有虚假、误导或遗漏。

PTC shall be responsible for the completeness, truthfulness and accuracy of the reported information and shall not report false, misleading or omitted information.

12.6 认证委托人、生产者、生产企业应按本机构要求及时、准确提供报送所需的企业信息、产品信息及认证活动信息并对其真实性负责，信息变更的应在变更后 5 个工作日内书面告知本机构。

The client, producer and manufacturer shall provide the required information in a timely and accurate manner and be responsible for its truthfulness, and shall notify PTC in writing within 5 working days of any change.

附件 1：信息通信设备安全与电磁兼容认证的单元划分Division of Units for Safety and Electromagnetic Compatibility Certification of Information and Communication Equipment

序号 Serial No.	产品名称 Product Name	单元划分原则 Unit Division Principles	认证依据标准 Certification Basis Standards	主送样品的数量 Quantity of Main Samples Submitted
1	信息通信设备 Information and Communication Equipment	1) 按供电方式，安全结构、产品类型等划分申请单元； 1) According to power supply method, safety structure, and product type, divide into application units. 2) 电源部分不同，一般分开申请； 2) If the power supply section differs, generally apply separately. 3） 结构不同，一般分开申请； 3) If the structure differs, generally apply separately. 4） 产品使用环境的海拔高度 (≤2000m/2000-5000m/＞5000m）不同，气候类型（热带气候/ 非热带气候）不同的，应划分为不同的申请单元 4) If the product usage environment differs in altitude (≤2000m / 2000–5000m / >5000m) or in climate type (tropical / non- tropical), it shall be divided into different application units.	GB4943.1 GB/T9254.1 GB17625.1 GB/T9254.2 GB/T19483 GB/T19484.1 GB/T22450.1 YD/T1592.1 YD/T1595.1 YD/T993 YD/T2583.14 YD/T2583.18	2 台 2 units

附件 2-1：安全关键元器件和材料清单-国内List of Safety-Critical Components and Materials – Domestic

序号 Serial No.	关键件名称 Key Component Name	控制参数 Control Parameters	检测依据标准 Certification Basis Standards	样品数量 Quantity of Samples
1	电线组件 Wire Assemblies	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise	GB/T 15934	12 组 12 sets
	外部布线（不包括 电源软线） External Wiring (excluding power cords)	型号、阻燃等级、制造商、生产企业 Model, Flammability Rating, Manufacturer, Production Enterprise	GB/T 18380.12 GB/T 18380.13 GB/T 18380.22或 (or) GB/T 5169.23	3 米 3 meters
	内部布线（不包括 电源软线） Internal Wiring (excluding power cords)	线径、阻燃等级、制造商 Wire Diameter, Flammability Rating, Manufacturer	GB/T 18380.12 GB/T 18380.13 GB/T 18380.22或 (or) GB/T 5169.23	3 米 3 meters
	电源插头 Power Plug	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise	GB/T 1002 GB/T 1003 GB/T 2099.1	12 个 12 pieces
	可拆卸插头 Detachable Plug	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise	GB 4943.1 GB/T 1002 GB/T 1003	随整机考核 Assessed together with the whole machine
	电源软线 Power Cord	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise	GB/T 5023.5 GB/T 5013	50 米 50 meters
	器具耦合器（含连 接器） Appliance Coupler (including connector)	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise	GB/T 17465.1 GB/T 17465.2	12 套 12 sets
2	机内电源单元 Internal Power Supply Unit	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise	GB 4943.1	2 个 2 pieces
	电源适配器 Power Adapter	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise	GB 4943.1	2 个 2 pieces

3	小型熔断器 Miniature Fuse	型号、规格、熔断特性(适用时)、分断能力、制造商、生产企业 Model, Specification, Fuse Characteristics (if applicable), Breaking Capacity, Manufacturer, Production Enterprise	GB/T 9364.1 GB/T 9364.2 GB/T 9364.3 CB/T 9364.4 GB/T 9364.7	48-66 个(根据具体产品和适用标准确定) 48–66 pieces (determined by specific product and applicable standard)
	熔断器座 Fuse Holder	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise	GB/T 9364.6	27 个 27 pieces
4	热熔断体 Thermal Fuse	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise	GB/T 9816.1	60 个 60 pieces
5	平面变压器Planar Transformer	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise	GB 4943.1	6 个（独立）；随 PCB 板考核 6 pieces (independent); assessed together with PCB board
	平面变压器用印制板 Printed Circuit Board for Planar Transformer	型号、阻燃等级、制造商 Model, Flammability Rating, Manufacturer	GB 4943.1	随变压器 Together with transformer
6	隔离变压器 Isolating Transformer	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise	GB 4943.1 按适用情况符合 Comply as applicable with: GB/T 19212.1 GB/T 19212.5 GB/T 19212.7 GB/T 19212.17	4 个（其中1 个是未封装的） 4 pieces (including 1 unsealed)
	骨架 Bobbin	材料牌号、燃烧等级、温度（适用时）、制造商 Material Grade, Flammability Rating, Temperature (if applicable), Manufacturer	GB 4943.1	骨架材料样条5 条或随变压器 5 material samples or together with transformer
	绝缘胶带 Insulating tape	材料牌号、厚度，耐压值，温度，制造商 Material grade, thickness, withstand voltage, temperature, manufacturer	GB 4943.1	随变压器 Together with transformer
	绝缘线(含完全绝缘绕组线）	型号、线径、绝缘等级、耐热等级、	GB 4943.1	6 米 6 meters

	Insulated wire (including fully insulated winding wire)	FIW 级、制造商 Model, wire diameter, insulation class, heat resistance class, FIW grade, manufacturer		
7	抑制射频干扰固定电感器骨架（热 固性除 外） Radio-frequency interference suppression fixed inductor bobbin (excluding thermosetting types)	型号、规格（燃烧等级和温度（适用时））、制造商 Model, specification (flammability rating and temperature, if applicable), manufacturer	GB 4943.1	3 个 3 pieces
8	抑制无线电干扰电容器（隔离、跨 线、X类、Y 类电容器） Radio interference suppression capacitors (isolation, across- line, X- class, Y- class capacitors)	型号、规格、制造商、生产企业 Model, specification, manufacturer, production enterprise	GB/T 6346.14或 (or) IEC 60384-14	58 个 58 pieces
9	安全防护用电阻器 Safety protection resistors	型号、规格、制造商 Model, specification, manufacturer	GB 4943.1	10 个 10 pieces
10	熔断电阻 Fuse resistor	型号、规格、制造商 Model, specification, manufacturer	GB 4943.1 或 (or) SJ 2865 或 (or) SJ/T 11611	单体 90 个随机：10 个 90 single units, 10 random units
	小型断路器 Miniature circuit breaker	型号、规格、制造商 Model, specification, manufacturer	GB/T 10963.1	32
11	压敏电阻器/电涌抑制器 Varistor / Surge Suppressor	型号、规格、制造商 Model, Specification, Manufacturer	GB 4943.1或 (or) GB/T 10193 GB/T 10194； IEC61051-2 :1991+Amd1:2009 或 (or) IEC61643-331:2017	15 只（已获得 GB/T10193、GB/T10194 认证，否则+60 只） 15 pieces (with GB/T10193 and GB/T10194 certification; otherwise +60 pieces)

12	PTC 热敏电阻 PTC Thermistor	型号、规格、制造商 Model, Specification, Manufacturer	GB/T 14536.1	20 只 20 pieces
13	印制板基材/成品板 Printed Circuit Board Base Material / Finished Board	材料牌号/型号、燃烧等级、制造商 Material Grade/Model, Flammability Rating, Manufacturer	PCB：GB 4943.1，SJ 3275， 基材 Base Material：GB/T 4721, GB/T 4722, GB/T 4723， GB/T 4724，GB/T 4725 或其他等效国家标准 or other equivalent national standards	样条 13mm×130mm×实际厚度 10 条/成品板 3 块 Specimen 13mm × 130mm × actual thickness 10 pieces / 3 finished boards
14	防火防护外壳、及 内或外的材料、防 火挡板、装饰件材 料、空气过滤装置 的材料 Fireproof protective enclosure, and internal or external materials, fire baffles, decorative materials, air filter device materials	材料牌号/型号、燃烧等级、制造商 Material Grade/Model, Flammability Rating, Manufacturer	GB 4943.1	样条 13mm×130mm×实际厚度 10 条/材料 3 块 Specimen 13mm × 130mm × actual thickness 10 pieces / 3 materials
15	器具开关 Appliance Switch	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise	GB/T 15092.1 GB 4943.1	7 个 7 pieces
16	继电器 Relay	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise	GB 4943.1 IEC 61810-1	7 个 7 pieces
17	安全联锁装置 Safety Interlock Device	型号、规格、制造商 Model, Specification, Manufacturer	GB 4943.1	随整机考核 Evaluated with the complete equipment
18	光电耦合器 Optocoupler	型号、规格、制造商 Model, Specification, Manufacturer	GB 4943.1	20 个 20 pieces
19	整件滤波器 Complete Filter	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise	GB/T 15287 GB/T 15288 *	按不同重量为 16/12/6/3 个（元件已认 证），42/32/16/8 个（元件未认证） According to

				different weights: 16 / 12 / 6 / 3 pieces (components certified) 42 / 32 / 16 / 8 pieces (components not certified)
20	高压组件（>4kV） High-Voltage Component (>4kV)	型号、规格、制造商 Model, Specification, Manufacturer	GB 4943.1	3 套 3 sets
21	便携式电子产品用锂离子电池和电池组 Portable Electronic Products Lithium-Ion Batteries and Battery Packs	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise	GB 4943.1 GB 31241	电池：27 个；电池组：33个 Battery: 27 pieces Battery Pack: 33 pieces
	固定式电子设备用锂离子电池和电池组 Fixed Electronic Equipment Lithium-Ion Batteries and Battery Packs	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise	GB 4943.1 GB 40165	电池：18 个电池组：12 个 Battery: 18 pieces Battery Pack: 12 pieces
	其它电池（考核电池保护电路） Other Batteries (Assessment of Battery Protection Circuit)	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise	GB 4943.1	随整机考核 Evaluated with the complete equipment
22	光辐射单元 Optical Radiation Unit	激光单元：型号、激光功率等级、制造商 Laser Unit: Model, Laser Power Class, Manufacturer	IEC 60825-1:2014/IEC 60825-2/IEC 60825-12	随整机考核/部件考核 Evaluated with complete equipment / component evaluation
		LED 单元：型号、危险类别、制造商 LED Unit: Model, Hazard Category, Manufacturer	GB/T 20145 IEC 62471	随整机考核 Evaluated with complete equipment
		LED 单元（图像投影仪）：型号、危险类别、制造商 LED Unit (Image Projector): Model,	GB/T 30117.5	随整机考核 Evaluated with complete equipment

		Hazard Category, Manufacturer		
23	逆变板/逆变变压器 Inverter Board / Inverter Transformer	型号、规格、制造商 Model, Specification, Manufacturer	GB 4943.1	随整机考核 Evaluated with the complete equipment
24	电机（含风扇） Motor (including Fan)	型号、规格、制造商 Model, Specification, Manufacturer	GB 4943.1	随整机考核 Evaluated with the complete equipment
25	天线隔离器（电容、电阻、阻容单 元） Antenna Isolator (Capacitor, Resistor, RC Unit)	型号、规格、制造商 Model, Specification, Manufacturer	GB 4943.1	2 个 / 随整机考核 2 pieces / Evaluated with the complete equipment
26	墙壁或天花板安装用挂架 Wall or Ceiling Mounting Bracket	结构（可描述/照片）、厚度、材质、 制造商； 螺钉：直径、长度、材质 Structure (description/photo), Thickness, Material, Manufacturer Screws: Diameter, Length, Material	GB 4943.1	随整机考核 Evaluated with the complete equipment
27	IC 限流器 IC Current Limiter	型号、规格（电源限制/规格、最大 输入电压、最大输出负载 ）、制造商 Model, Specification (Power Limit/Specification, Maximum Input Voltage, Maximum Output Load), Manufacturer	GB 4943.1	6 个 / 随整机考核 6 pieces / Evaluated with the complete equipment
28	加压充液的元器件 Pressurized Liquid-Filled Components	型号、规格（最大工作压力）、管道和相关配件材质、制造商 Model, Specification (Maximum Working Pressure), Pipe and Related Fittings Material, Manufacturer	GB 4943.1	6 个LFC+用管道 和相关配件的材料制成的10 个 LFC 样品（适用 时） 6 LFC units + 10 LFC samples made of pipe and related fittings material (where applicable)
29	含有电容器放电功 能的 IC（ICX）	型号、规格、制造商电阻：阻值 Model, Specification, Manufacturer	GB 4943.1	5 个 / 随整机考核 5 pieces /

	及 关联电阻器 IC with Capacitor Discharge Function (ICX) and Associated Resistors	Resistor: Resistance Value		Evaluated with the complete equipment
30	绝缘垫片/挡板 Insulating Spacer / Baffle	材质、厚度、燃烧等级、制造商 Material, Thickness, Flammability Rating, Manufacturer	GB 4943.1	随整机考核 Evaluated with the complete equipment
31	无线功率发射器（无线充） Wireless Power Transmitter (Wireless Charging)	型号、输入/输出规格、制造商 Model, Input/Output Specification, Manufacturer	GB4943.1	随整机考核 Evaluated with the complete equipment
	线圈 Coil	型号、额定电流、温度限值、尺寸（线 圈内径、线圈外径、每层绕线数、层 数）、制造商 Model, Rated Current, Temperature Limit, Dimensions (Inner Diameter, Outer Diameter, Turns per Layer, Number of Layers), Manufacturer	GB4943.1	随整机考核 Evaluated with the complete equipment
	IC 器件 IC Device	型号、输入电压/电流/功率、制造商 Model, Input Voltage/Current/Power, Manufacturer	GB4943.1	随整机考核 Evaluated with the complete equipment
	温度器件（如：NTC） Temperature Component (e.g., NTC)	型号、规格、制造商 Model, Specification, Manufacturer	GB4943.1	随整机考核 Evaluated with the complete equipment
32	耳机 Headphones	型号、规格、制造商 Model, Specification, Manufacturer	GB4943.1	1个1 piece

附件 2-2：安全关键元器件和材料清单-出口List of Safety-Critical Components and Materials – Export

序号 Serial No.	关键件名称 Name of Key Component	控制参数 Control Parameters	检测依据标准 Standard for Testing	样品数量 Sample Quantity
	电线组件 Cord set	型号、规格、制造商 Model, specifications, manufacturer	DIN EN 50525-2-11 (VDE 0285-525-2-11):2012-01; EN 50525	随整机考核 Test with

			-2-11:2011	appliance
1	外部布线 External wire	型号、阻燃等级、制造商 Model, flame retardant grade, manufacturer	UL 758	随整机考核 Test with appliance
	内部布线 Internal wire	型号、阻燃等级、制造商 Model, flame retardant grade, manufacturer	UL 758	随整机考核 Test with appliance
	插头 Plug	型号、规格、制造商 Model, specification, manufacturer	IEC 60320-1	随整机考核 Test with appliance
	电源线 Power cord	型号、规格、制造商 Model, specification, manufacturer	VDE 0250	随整机考核 Test with appliance
	器具输入插座 Appliance inlet	型号、规格、制造商 Model, specification, manufacturer	IEC 60320-1:2021	随整机考核 Test with appliance
2	内置电源开关适配器 Built in power switch adapter	型号、规格、制造商 Model, specification, manufacturer	IEC 62368-1:2023	随整机考核 Test with appliance
	电源单元 Power supply	型号、规格、制造商 Model, specification, manufacturer	IEC 62368-1:2023	随整机考核 Test with appliance
3	熔断器 Fuse	型号、规格、制造商 Model, specification, manufacturer	IEC 60127-1	随整机考核 Test with appliance
4	热熔断体 Thermal link	型号、阻燃等级、制造商 Model, specification, manufacturer	IEC 60691	随整机考核 Test with appliance
5	平面变压器 Planar transformer	型号、阻燃等级、制造商 Model, flame retardant grade, manufacturer	IEC 62368-1:2023	随整机考核 Test with appliance
	平面变压器用印制电路板 Printed circuit board for planar transformer	型号、阻燃等级、制造商 Model, flame retardant grade, manufacturer	IEC 62368-1:2023	随整机考核 Test with appliance
6	变压器 Transformer	型号、规格、制造商 Model, specification, manufacture	IEC 62368-1:2023	随整机考核 Test with appliance
	骨架 Bobbin	材料牌号、燃烧等级、温度（适用时）、制造商 Material grade, combustion grade, temperature (when applicable), manufacturer	IEC 62368-1:2023	随整机考核 Test with appliance

	绝缘胶带 Tape	材料牌号、厚度、耐压值、温度、制造商 Material grade, thickness, pressure resistance value, temperature Manufacturer	IEC 62368-1:2023	随整机考核 Test with appliance
	三层绝缘线 Triple wire	型号、线径、绝缘等级、耐热等级、FIW等级、制造商 Model, wire diameter, insulation grade, heat resistance grade,FIW grade, manufacturer	IEC 62368-1:2023	随整机考核 Test with appliance
7	骨架 Bobbin	型号、规格（燃烧等级和温度（适用时））、制造商 Model, specification (burning grade and temperature (if applicable)), manufacturer	IEC 62368-1:2023	随整机考核 Test with appliance
8	X电容器、Y电容器 X-capacitor, Y-capacitor	型号、规格、制造商、生产企业 Model, specification, manufacturer, production enterprise	IEC 60384-14	随整机考核 Test with appliance
9	电阻器 Resistor	型号、规格、制造商 Model, specification, manufacturer	IEC 62368-1:2023	随整机考核 Test with appliance
10	熔断电阻器 Fusible resistor	型号、规格、制造商 Model, specification, manufacturer	IEC 62368-1:2023	随整机考核 Test with appliance
	熔断器 Fuse	型号、规格、制造商 Model, specification, manufacturer	IEC 60127-1	随整机考核 Test with appliance
11	压敏电阻器 Varistor	型号、规格、制造商 Model, specification, manufacturer	IEC61051-2 :1991+Amd1:2009	随整机考核 Test with appliance
12	PTC热敏电阻 PTC	型号、规格、制造商 Model, specification, manufacturer	IEC 60730-1	随整机考核 Test with appliance
13	印制电路板 PCB	材料牌号/型号、燃烧等级、制造商 Material grade/model, combustion grade, manufacturer	UL 796	随整机考核 Test with appliance
14	外壳 Enclosure	材料牌号/型号、燃烧等级、制造商 Material grade/model, combustion grade, manufacturer	UL 94	随整机考核 Test with appliance
15	器具开关 Appliance switch	型号、规格、制造商、生产企业 Model, specification, manufacturer, production enterprise	EN 60947-1	随整机考核 Test with appliance
16	继电器 Relay	型号、规格、制造商、生产企业 Model, specification, manufacturer, production enterprise	EN 61810-1	随整机考核 Test with appliance
17	安全联锁装置	型号、规格、制造商	IEC 62368-1:2023	随整机考核

	Safety interlock	Model, specification, manufacturer		Test with appliance
18	光电耦合器 Optocoupler	型号、规格、制造商 Model, specification, manufacturer	IEC 60747-5-5	随整机考核 Test with appliance
19	电池 Battery	型号、规格、制造商、生产企业 Model, specification, manufacturer, production enterprise	IEC 62133-2	随整机考核 Test with appliance
20	LED or Laser	型号、激光功率等级、制造商 Laser unit: Model, Laser power level,Manufacturer	IEC 60825-1:2014/IEC 60825-2/IEC 60825-12	随整机考核 Test with appliance
		型号、危险类别、制造商 LED module: Model, Hazard Category, Manufacture	IEC 62471	随整机考核 Test with appliance
21	逆变板/逆变变压器 Inverter board / Inverter transformer	型号、规格、制造商 Model, specification, manufacturer	IEC 62368-1:2023	随整机考核 Test with appliance
24	风扇 Fan	型号、规格、制造商 Model, specification, manufacturer	IEC 62368-1:2023	随整机考核 Test with appliance
25	天线隔离器（电容器、电阻器、阻容单元） Antenna isolator (capacitor, resistor, resistive-capacitive unit)	型号、规格、制造商 Model, specification, manufacturer	IEC 62368-1:2023	随整机考核 Test with appliance
26	含有电容器放电功能的IC（ICX）及关联电阻器 An IC (ICX) containing the discharge energy of capacitors and associated resistors	Model, specification, manufacturer resistance: resistance value	IEC 62368-1:2023	随整机考核 Test with appliance
27	麦拉片（绝缘片） Mylar sheet	Material, thickness, fire rating, manufacturer	UL 94	2
28	无线功率发射器（无线充电） Wireless power transmitter(Wireless charging)	型号、输入/输出规格、制造商 Model, input/output specifications, manufacturer	IEC 62368-1:2023	随整机考核 Test with appliance
	线圈 Coil	型号、额定电流、温度限值、尺寸（线圈内径、线圈外径、每层绕线数、层数）、制造商	IEC 62368-1:2023	随整机考核 Test with

		Model, rated current, temperature limit, dimensions (inner diameter of coil, outer diameter of coil, number of turns per layer, number of layers), manufacturer		appliance
	NTC热敏电阻 NTC	型号、规格、制造商 Model, specification, manufacturer	IEC 62368-1:2023	随整机考核 Test with appliance

注 Notes:

1、上述标准自动适用其现行有效版本;

1. The above standards automatically apply to their current valid versions.

2、上述关键件若集成在其他部件中且不能分离，则其它部件应满足关键件的相关要求，并作为关键件列出，如，作初次级隔离用的光电耦合器集成在 IC 中，则 IC 是关键件)。

2. If the above key components are integrated into other parts and cannot be separated, then the other parts shall meet the relevant requirements of the key components and be listed as key components. For example, if an optocoupler used for primary/secondary isolation is integrated into an IC, then the IC is considered a key component.

3、若整机中含有 CCC 目录内的产品或元器件且上表未列出的，应补充相关信息并考核；

3. If the complete equipment contains products or components within the CCC catalog that are not listed in the above table, relevant information shall be supplemented and assessed.

4、序号 19*仅采用 GB/T 15288 中的有关安全性能部分的要求。

4. Serial No. 19* only adopts the requirements related to safety performance in GB/T 15288.

5、上述安全关键件如为非标器件，应列入清单并按适用标准管控。

5. If the above safety- critical components are non- standard parts, they shall be included in the list and controlled according to applicable standards.

附件3：对电磁兼容性能有影响的主要零部件Major Components Affecting Electromagnetic Compatibility Performance

序号 Serial No.	主要零部件 Major Component	控制参数 Control Parameters	检测项目 Test Items
1	电源单元（无 CCC 认证） Power Supply Unit (without CCC certification)	型号、规格 Model, Specification	电源端骚扰电压、谐波电流 Disturbance Voltage at Power Port, Harmonic Current
2	主板 Main Board	型号/唯一标识、电路布线（照片）、制造商 Model/Unique Identifier, Circuit Layout (Photo), Manufacturer	辐射骚扰 Radiated Disturbance
3	中央处理单元 Central Processing Unit	核数、频率、制造商 Number of Cores, Frequency, Manufacturer	辐射骚扰 Radiated Disturbance
4	显示单元（含控制电路） Display Unit (including control circuit)	型号/唯一标识、屏尺寸 Model/Unique Identifier, Screen Size	辐射骚扰 Radiated Disturbance
	显示单元的独立控制电路 Independent Control Circuit of Display Unit	型号/唯一标识 Model/Unique Identifier	辐射骚扰 Radiated Disturbance
5	电信接口电路 Telecommunication Interface Circuit	接口类型、传输速率 Telecommunication Interface Circuit	不对称模式传导发射 Asymmetric Mode Conducted Emission
6	打印单元 Printing Unit	型号、规格 Model, Specification	辐射骚扰 Radiated Disturbance
7	调谐单元 Tuning Unit	型号、制式（模拟/数字/DVBC） Model, Standard (Analog/Digital/DVBC)	辐射骚扰、天线端骚扰电压、不对称模式传导发射 Radiated Disturbance, Disturbance Voltage at Antenna Port, Asymmetric Mode Conducted Emission
8	开关管* Switching Tube*	规格 Specification	电源端子传导骚扰 Conducted Disturbance at Power Terminals
9	抑制射频干扰固定电感器* RF Interference Suppression Fixed Inductor*	规格 Specification	电源端子传导骚扰、谐波电流 Conducted Disturbance at Power Terminals, Harmonic Current
10	抑制电磁干扰固定电容器* Electromagnetic Interference Suppression Fixed Capacitor*	规格 Specification	电源端子传导骚扰、谐波电流 Conducted Disturbance at Power Terminals, Harmonic Current
11	整件滤波器 Complete Filter Unit	型号、规格、制造商 Model, Specification, Manufacturer	电源端子传导骚扰、辐射骚扰、谐波电流 Conducted Disturbance at Power Terminals, Radiated

			Disturbance, Harmonic Current
12	网卡（独立） Independent Network Card	型号/唯一标识、电路 布线 （照片）、制造商 Model/Unique Identifier, Circuit Layout (Photo), Manufacturer	不对称模式传导发射 Asymmetric Mode Conducted Emission
13	金属或有 EMI 涂料的机箱 Metallic or EMI-Coated Enclosure	外形结构尺寸、型号/ 唯一标识、材料、制造商 Structural Dimensions, Model/Unique Identifier, Material, Manufacturer	辐射骚扰 Radiated Disturbance
14	电机** Electric Motor**	型号、规格、制造商 Model, Specification, Manufacturer	辐射骚扰 Radiated Disturbance
15	HDMI 线 HDMI Cable	型号、制造商 Model, Manufacturer	辐射骚扰 Radiated Disturbance
16	射频组件（功放、收发 芯片）*** RF Components (Power Amplifier, Transceiver Chip)**	型号、制造商 Model, Manufacturer	不对称模式传导发射 Asymmetric Mode Conducted Emission

注：产品中电源线和信号电缆上的磁环，请补充照片和相关信息在报告中。

Note: For ferrite cores on power and signal cables in the product, please supplement photos and related information in the report.

*仅适用于计算机/服务器内置电源和电源适配器产品

*Only applicable to computer/server built- in power supplies and power adapter products

**仅适用于具有传真功能的产品或数据终端产品

**Only applicable to products with fax functionality or data terminal products

***仅适用于天线端口预定连接电缆长度大于 3m 的产品

***Only applicable to products where the predetermined antenna port connection cable length is greater than 3m

附件4：信息通信设备描述 Description of Information and Communication Equipment

申请人 Applicant：

申请编号 Application No.：

一、**产品名称/型号** Product Name/Model：

同一申请单元内各个型号产品之间的差异说明：

Explanation of differences among products within the same application unit:

电参数表：（附后）

Electrical parameter table: (attached)

中文铭牌和警告标记：（附后）

Chinese nameplate and warning label: (attached)

产品总装图、电器原理图、线路图、产品说明书等：（附后）

Product assembly drawing, electrical schematic, circuit diagram, product manual, etc.: (attached)

CB 测试证书、CB 测试报告（申请人持 CB 测试证书申请时）：（附后）

CB Test Certificate, CB Test Report (when the applicant applies with a CB Test Certificate): (attached)

二、**关键零部件/元器件清单** List of Key Components/Parts

安全关键元部件和材料清单

Safety-Critical Components and Materials List

序号 **Serial No.**	**关键件名称** **Name of Key Component**	**控制参数** **Control Parameters**
1	电线组件 Wire Assembly	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise
	外部布线（不包括电源软线） External Wiring (excluding power flexible cord)	型号、阻燃等级、制造商、生产企业 Model, Flame Retardant Rating, Manufacturer, Production Enterprise
	内部布线（不包括电源软线） Internal Wiring (excluding power flexible cord)	线径、阻燃等级、制造商 Wire Diameter, Flame Retardant Rating, Manufacturer
	电源插头 Power Plug	型号、规格、制造商、生产企业 Power Plug Model, Specification, Manufacturer, Production Enterprise
	可拆卸插头 Detachable Plug	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise
	电源软线 Power Supply Cord	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise

	器具耦合器（含连接器） Appliance Coupler (including connector)	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise
2	机内电源单元 Built-in Power Supply Unit	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise
	电源适配器 Power Adapter	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise
3	小型熔断器 Miniature Fuse	型号、规格、熔断特性、分断能力、制造商、生产企业 Model, Specification, Fuse Characteristics, Breaking Capacity, Manufacturer, Production Enterprise
	熔断器座 Fuse Holder	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise
4	热熔断体 Thermal Fuse	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise
5	平面变压器 Planar Transformer	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise
	平面变压器用印制板 Printed Circuit Board for Planar Transformer	型号、阻燃等级、制造商 Model, Flame Retardant Rating, Manufacturer
6	隔离变压器 Isolation Transformer	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise
	骨架 Coil Former (Bobbin)	材料牌号、燃烧等级、温度（适用时）、制造商 Material Grade, Flammability Rating, Temperature (where applicable), Manufacturer
	绝缘胶带 Insulating Tape	材料牌号、厚度，耐压值，温度，制造商 Material Grade, Thickness, Dielectric Strength, Temperature, Manufacturer
	绝缘线(含完全绝缘绕组线） Insulated Wire (including Fully Insulated Winding Wire)	型号、线径、绝缘等级、耐热等级、FIW 级、制造商 Model, Wire Diameter, Insulation Class, Heat Resistance Class, FIW Grade, Manufacturer
7	抑制射频干扰固定电感器骨架（热固性除外） RF Interference Suppression Fixed Inductor Bobbin (excluding thermosetting)	型号、规格（燃烧等级和温度（适用时））、制造商 Model, Specification (Flammability Rating and Temperature, where applicable), Manufacturer
8	抑制无线电干扰电容器（隔离、跨线、X 类、Y 类电容器） Radio Interference Suppression Capacitor (Isolating, Across-the-line, Class X, Class Y Capacitor)	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise
9	安全防护用电阻器 Safety Resistor	型号、规格、制造商 Model, Specification, Manufacturer
10	熔断电阻 Fuse Resistor	型号、规格、制造商 Model, Specification, Manufacturer

	小型断路器 Miniature Circuit Breaker	型号、规格、制造商 Model, Specification, Manufacturer
11	压敏电阻器/电涌抑制器 Varistor / Surge Suppressor	型号、规格、制造商 Model, Specification, Manufacturer
12	PTC 热敏电阻 PTC Thermistor	型号、规格、制造商 Model, Specification, Manufacturer
13	印制板基材/成品板 Printed Circuit Board (Base Material / Finished Board)	材料牌号/型号、燃烧等级、制造商 Material Grade / Model, Flammability Rating, Manufacturer
14	防火防护外壳及内外的材料、防火挡板、装饰件材料、空气过滤 装置的材料 Fireproof Protective Enclosure, and Internal or External Materials, Fire Baffles, Decorative Materials, Air Filter Device Materials	材料牌号/型号、燃烧等级、制造商 Material Grade / Model, Flammability Rating, Manufacturer
15	器具开关 Appliance Switch	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise
16	继电器 Relay	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise
17	安全联锁装置 Safety Interlock Device	型号、规格、制造商 Model, Specification, Manufacturer
18	光电耦合器 Optocoupler	型号、规格、制造商 Model, Specification, Manufacturer
19	整件滤波器 Complete Filter Unit	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise
20	高压组件（>4kV） High-Voltage Component (>4kV)	型号、规格、制造商 Model, Specification, Manufacturer
21	便携式电子产品 用锂离子电池和电池组 Portable Electronic Products Using Lithium-Ion Batteries and Battery Packs	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise
	固定式电子设备用锂离子电池和电池组 Fixed Electronic Equipment Using Lithium-Ion Batteries and Battery Packs	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise
	其它电池（考核电池保护电路） Other Batteries (Assessment of Battery Protection Circuit)	型号、规格、制造商、生产企业 Model, Specification, Manufacturer, Production Enterprise
22	光辐射单元 Optical Radiation Unit	激光单元：型号、激光功率等级、制造商 Laser Unit: Model, Laser Power Class, Manufacturer
		LED 单元：型号、危险类别、制造商 LED Unit: Model, Hazard Category, Manufacturer

		LED 单元（图像投影仪）：型号、危险类别、制造商 LED Unit (Image Projector): Model, Hazard Category, Manufacturer
23	逆变板/逆变变压器 Inverter Board / Inverter Transformer	型号、规格、制造商 Model, Specification, Manufacturer
24	电机（含风扇） Electric Motor (including Fan)	型号、规格、制造商 Model, Specification, Manufacturer
25	天线隔离器（电容、电阻、阻容单 元） Antenna Isolator (Capacitor, Resistor, RC Unit)	型号、规格、制造商 Model, Specification, Manufacturer
26	墙壁或天花板安装用挂架 Wall or Ceiling Mounting Bracket	结构（可描述/照片）、厚度、材质、制造商； Structure (description/photo), Thickness, Material, Manufacturer; 螺钉：直径、长度、材质 Screws: Diameter, Length, Material
27	IC 限流器 IC Current Limiter	型号、规格（电源限制/规格、 最大输入电压、最大输出 负载 ）、制造商 Model, Specification (Power Limit/Specification, Maximum Input Voltage, Maximum Output Load), Manufacturer
28	加压充液的元器件 Pressurized Liquid-Filled Components	型号、规格（最大工作压力）、管道和相关配件材质、制 造商 Model, Specification (Maximum Working Pressure), Pipe and Related Fittings Material, Manufacturer
29	含有电容器放电功能的 IC （ICX ）及关联电阻器 IC with Capacitor Discharge Function (ICX) and Associated Resistors	型号、规格、制造商电阻：阻值 Model, Specification, Manufacturer Resistor: Resistance Value
30	绝缘垫片/挡板 Insulating Spacer / Baffle	材质、厚度、燃烧等级、制造商 Material, Thickness, Flammability Rating, Manufacturer
31	无线功率发射器（无线充） Wireless Power Transmitter (Wireless Charging)	型号、输入/输出规格、制造商 Model, Input/Output Specification, Manufacturer
	线圈 Coil	型号、额定电流、温度限值、 尺寸（线圈内径、线圈外 径、 每层绕线数、层数）、制造商 Model, Rated Current, Temperature Limit, Dimensions (Inner Diameter, Outer Diameter, Turns per Layer, Number of Layers), Manufacturer
	IC 器件 IC Device	型号、输入电压/电流/功率、 制造商 Model, Input Voltage/Current/Power, Manufacturer
	温度器件（如：NTC）	型号、规格、制造商

	Temperature Component (e.g., NTC)	Model, Specification, Manufacturer
32	耳机 Headphones	型号、规格、制造商 Model, Specification, Manufacturer

注：申请人可根据认证产品实际情况，选择适用的关键零部件/元器件填写内容，不适用的可以删除。

Note: The applicant may, based on the actual situation of the certified product, select applicable key components/parts to fill in the content; non-applicable items may be deleted.

电磁兼容关键件清单

Electromagnetic Compatibility (EMC) Key Components List

序号 **Serial No.**	**主要零部件** **Major Component**	**控制参数** **Control Parameters**
1	电源单元（无 CCC 认证） Power Supply Unit (without CCC certification)	型号、规格 Model, Specification
2	主板 Main Board	型号/唯一标识、电路布线（照片）、制造商 Model/Unique Identifier, Circuit Layout (Photo), Manufacturer
3	中央处理单元 Central Processing Unit	核数、频率、制造商 Number of Cores, Frequency, Manufacturer
4	显示单元（含控制电路） Display Unit (including Control Circuit)	型号/唯一标识、屏尺寸 Model/Unique Identifier, Screen Size
	显示单元的独立控制电路 Independent Control Circuit of Display Unit	型号/唯一标识 Model/Unique Identifier
5	电信接口电路 Telecommunication Interface Circuit	接口类型、传输速率 Interface Type, Transmission Rate
6	打印单元 Printing Unit	型号、规格 Model, Specification
7	调谐单元 Tuning Unit	型号、制式（模拟/数 字/DVBC） Model, Standard (Analog/Digital/DVBC)
8	开关管* Switching Tube*	规格 Specification
9	抑制射频干扰固定电感器* RF Interference Suppression Fixed Inductor*	规格 Specification
10	抑制电磁干扰固定电容器* Electromagnetic Interference Suppression Fixed Capacitor*	规格 Specification
11	整件滤波器 Complete Filter Unit	型号、规格、制造商 Model, Specification, Manufacturer
12	网卡（独立） Independent Network Card	型号/唯一标识、电路 布线（照片）、制造商 Model/Unique Identifier, Circuit Layout (Photo), Manufacturer

13	金属或有 EMI 涂料的机箱 Metallic or EMI-Coated Enclosure	外形结构尺寸、型号/ 唯一标识、材料、制造商 Structural Dimensions, Model/Unique Identifier, Material, Manufacturer
14	电机** Electric Motor**	型号、规格、制造商 Model, Specification, Manufacturer
15	HDMI 线 HDMI Cable	型号、制造商 Model, Manufacturer
16	射频组件（功放、收发 芯片）*** RF Components (Power Amplifier, Transceiver Chip)***	型号、制造商 Model, Manufacturer

注：产品中电源线和信号电缆上的磁环，请补充照片和相关信息在报告中。

Note: For ferrite cores on power and signal cables in the product, please supplement photos and related information in the report.

*仅适用于计算机/服务器内置电源和电源适配器产品

*Only applicable to computer/server built- in power supplies and power adapter products

**仅适用于具有传真功能的产品或数据终端产品

**Only applicable to products with fax functionality or data terminal products

***仅适用于天线端口预定连接电缆长度大于 3m 的产品

***Only applicable to products where the predetermined antenna port connection cable length exceeds 3 meters

三、**申请人声明** Applicant's Declaration

本组织保证该产品描述中产品设计参数及关键零部件/元器件等与相应申请认证产品保持一致。

Our organization guarantees that the product design parameters and key components/parts described herein are consistent with the corresponding product submitted for certification.

获证后，本组织保证获证产品只配用经 PTC 确认的上述关键零部件/元器件。如果关键零部件/元器件需进行变更（增加、替换），本组织将向 PTC 提出变更申请，未经 PTC 的认可，不得擅自变更使用，以确保该规格型号始终符合安全与电磁兼容认证要求。

After obtaining certification, our organization guarantees that the certified product will only be equipped with the above key components/parts confirmed by PTC. If any key components/parts need to be changed (added or replaced), our organization will submit a change application to PTC. Without PTC's approval, no changes may be made, ensuring that the specifications and models always comply with safety and electromagnetic compatibility certification requirements.

申请人 Applicant：

公　章 Official Seal：

日　期 Date：