

NCT Mark



Technical Requirements for Electric Batteries

蓄电池认证要求

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First Edition

第一版

Note 注意:

This Requirements shall be interpreted in accordance with the Chinese version if there are any differences between the Chinese and English versions.

本要求仅中英文存在差异时，需以中文描述为准。

Preamble

前言

This certification requirement is applicable to battery products applying for the NCT Mark certification. Any battery product applying for the NCT Mark must strictly follow the terms of this requirement. If there is any violation of the requirements, NCT has the right to suspend the relevant certification and certificates.

本认证要求适用与电池申请 NCT Mark 认证，任何电池产品申请 NCT Mark 要严格按照本要求条款进行，如有任何违反要求的行为，NCT 有权利暂停相关的认证及证书。

Article (1): Terms and Definitions**第一条: 术语和定义**

1.1 Regulatory Authorities: government body/ bodies with regulatory tasks according to their specializations, that are responsible for the implementation and enforcement of technical regulations, whether in customs, markets, or manufactories.

监管机构: 根据专业领域承担监管职责的政府机构,负责在海关、市场或制造领域实施和执行技术法规。

1.2 Technical Requirements: A document approved by the Board that provides the specifications of products, associated processes and production methods, including applicable administrative provisions; with which compliance is mandatory. It may include or pay attention to terms, definitions, packaging, and requirements of markings or labelling products, services, processes or production methods.

技术需求: 由 NCT 内部批准的文件,规定了产品、相关工艺和生产方法的规范,包括适用的行政规定;必须遵守。它可包括或关注术语、定义、包装以及产品、服务、工艺或生产方法的标记或标签要求。

1.3 Standard: Documents approved internally by NCT provide non-mandatory rules, instructions and specifications for products or processes and production methods for regular and repetitive use. They may include or focus on terms, definitions, packaging, and marking or labeling requirements for products, services, processes or production methods.

标准: 由 NCT 内部批准的文件,为常规和重复使用提供非强制性规则、说明和产品或工艺及生产方法的规范。它可包括或关注术语、定义、包装以及产品、服务、工艺或生产方法的标记或标签要求。

1.4 The Product: Electric batteries

产品: 电池

1.5 Market Surveillance Authorities: government body/ bodies responsible for carrying out market surveillance operations.

市场监管机构: 负责开展市场监管活动的政府机构。

1.6 Market Surveillance: Activities and measures carried out by the market surveillance authorities to verify that products meet the requirements stipulated in the relevant technical regulations, and to ensure that they do not pose a risk to health, safety, environment, or any other aspect related to the protection of the public interest.

市场监督: 市场监督部门开展的活动和措施,用以核实产品是否符合相关技术法规规定的要求,并确保产品不会对健康、安全、环境或与保护公众利益相关的任何其他方面构成风险。

1.7 Hazard(s): A potential source of harm.

危险(s): 一种潜在的危害来源。

1.8 Risk (s): A potential risk causing damage; associated with the severity of damage.

风险(s): 可能导致损害的风险；与损害严重程度相关。

1.9 Supplier:

- A product manufacturer, in case that he is resident in the China, or the person identified as the manufacturer of the product, through linking the product to their name, or to a relevant commercial description, or any person who provides a product replacement.

若产品制造商居住在中国，或被确认为产品制造商的个人，可通过将产品与其姓名、相关商业描述或任何提供产品更换服务的人员相关联。

- An agent, when the manufacturer is resident outside the Kingdom or an importer in the absence of an agent of the manufacturer.

当制造商注册地位于中国境外或进口商未配备制造商代理人时，需指定代理人。

-Any person in the supply chain, whose activities may affect the product characteristics.

供应链中任何可能影响产品特性的人员。

1.10 The certificate issued and approved by NCT is used to prove that the product or any of its batches comply with the relevant standard requirements.

符合性证书: 由 NCT 批准签发的证书，用于证明产品或其任何批次符合相关标准要求。

1.11 Supplier Declaration of Conformity: A declaration by the supplier by which it declares that a product conforms with the requirements herein and applicable legislation, without the mandatory intervention of a third party neither in the design stage, nor in the production stage of the manufacturing process. A declaration may depend on testing the product in accordance with the relevant legislation.

供应商符合性声明: 供应商声明产品符合本文要求及适用法规，且无需第三方在设计阶段或生产制造过程中进行强制性干预。声明可能需要根据相关法规对产品进行测试。

1.12 Commercial launch: The first time a product is introduced to the market, the manufacturer/supplier is responsible for this.

上市销售: 首次在市面推出产品，制造商/供应商需对此负责。

1.13 Withdrawal: Any procedure that aims to prevent placing a product in the market or in a supply chain.

撤市：旨在阻止产品进入市场或供应链的任何程序。

1.14 Recall: Any procedure that aims to recall products made available for the enduser.

召回：指旨在将已向终端用户提供的产品撤回的任何程序。

1.15 Just refer to the definitions in domestic and international regulations.

电池定义：参考国内和国际法规的定义即可

Article (2): Scope

第二条：适用范围

2.1 This Requirements shall apply to all types of electric batteries, regardless of their shape, size, weight, components or method of application. It covers two main categories of batteries:

本要求适用于所有类型的电电池，无论其形状、尺寸、重量、组件或使用方法如何。其涵盖电池的两大主要类别：

1) Auto Batteries: Batteries to power the starting system or lighting in cars;

汽车蓄电池：为汽车启动系统或照明系统提供电力的电池；

2) Portable batteries: Various forms of batteries. They are not autos batteries or industrial batteries, weighing no more than 1 kg. They are used in regular electrical devices, such as calculators, lamps, gauges and cell phones.

便携式电池：各种形态电池，不属于蓄电池或工业电池，重量不超过 1 千克。常用于计算器、灯具、仪表及手机等常规电气设备中。

2.2 This Requirements shall not apply to batteries used for the following purposes:

本要求不适用于以下用途的电池：

1) Electric batteries used in military industries sectors;

军事工业领域使用的电池；

2) Electric batteries used in medical equipment;

用于医疗设备的电池；

3) Equipment planned to be launched into space.

计划发射至太空的设备。

Article (3): Objectives

第三条：目的

This requirement is a voluntary certification requirement, aiming to establish the basic health and safety standards for batteries, especially for the chemicals

used in the manufacturing process. It also requires compliance with relevant international standards and labeling regulations. This includes the recommended and warning information that must be included in the labels for battery waste recycling or management. The scope of this requirement covers the conformity assessment procedures that suppliers must follow.

本要求是自愿性认证要求，旨在制定电池的基本健康与安全要求，尤其针对制造过程中使用的化学品。同时要求符合相关国际标准及标签规范。包括电池废弃物回收或管理标签中必须包含的建议与警示信息。本要求的适用范围包括供应商必须遵守的符合性评估程序。

Article (4): Obligations of Supplier

第四条: 供应商义务

4.1 General Requirements

通用要求

1)Supplier shall fulfil all general and technical requirements of this Regulation.

供应商应满足本法规的所有通用要求和技术要求。

2)The manufacturer's business license is valid.

厂家营业执照有效

3)Applicant and Certification Agreement

申请表，协议

4)The manufacturer's statement was provided.

制造商的声明且盖

4.2 Technical Requirements

技术要求

The supplier shall, in order to achieve the requirements of this Regulation, fulfil the technical requirements for batteries covered by the relevant standards, which are:

为满足本法规要求，供应商应符合相关标准中规定的电池技术要求，包括：

1)The specification sheet contains all the parameters mentioned in the report, as well as the basic information of the battery.

规格书中有报告中提及的所有参数，以及电池的基本信息

2)The specification document contains information about the storage of the batteries.

规格书中有电池的储存信息

3)There are relevant warning statements in the specification document.

规格书中有相关的警告语

4) Provide valid ISO 9001 certificates or quality plans.

提供有效的 ISO 9001 证书或者质量计划。

5)Label information is complete.

Label 信息完整

6) Sample photos with labels

样品照片带铭牌

7) Risk assessment report is valid

风险评估报告有效

8) packaging instructions

包装说明

4.3 Electrical Requirements:

电气要求

4.3.1 The battery shall be marked as non-rechargeable by printing, "Do not charge" on battery case.

电池应通过在电池外壳上印刷“请勿充电”字样进行非可充电标识。

4.4 Mechanical Requirements:

机械要求

4.4.1 Features relating to battery power saving and anti-corrosion shall be considered as per recommendations of the manufacturer throughout the storage period of elements or batteries, in view of different climate conditions.

鉴于不同气候条件，应根据制造商建议，在元件或电池的整个储存期间考虑与电池节能及防腐蚀相关的特性。

4.4.2 Specifications relating to hazardous materials transport shall be considered during product transportation by road, sea or air.

通过公路、海运或空运运输产品时，应考虑与危险材料运输相关的技术规范。

4.4.3 Vibration resistance, i.e. battery ability to resist against acceleration forces while maintaining its electric abilities and all features, shall be considered as per the relevant standard.

抗振性（即电池在保持其电性能及所有功能的同时抵抗加速度力的能力）应按照相关标准进行评估。

4.4.4 Cells and batteries packages shall be designed to avoid mechanical damages during transportation, handling and storage.

电池与电池组包装设计应确保在运输、搬运及储存过程中避免机械损伤。

4.4.5 Packing materials shall be designed to prevent electrical contacts and accidental corrosions and to provide protection against leakage from cells and batteries.

包装材料的设计应防止电接触和意外腐蚀，并提供对电池单元及电池泄漏的防护。

4.5 Chemical Requirements:

化学要求

It is strictly prohibited for the following products to apply for certification.:

严禁以下产品申请认证：

1) All batteries, whether stand-alone, integrated into a device or fixed, containing more than 0.0005% of mercury in respect of the total weight of battery.

所有电池（无论是独立式、集成于设备中还是固定式），其汞含量相对于电池总重量超过 0.0005%。

2)All batteries, whether stand-alone, integrated into a device or fixed, containing more than 0.0002% of cadmium in respect of the total weight of battery.

所有电池（无论是独立电池、集成于设备中的电池还是固定式电池），其镉含量相对于电池总重量超过 0.0002%。

3)Prohibition excludes Button Cells, where mercury content is less than 2 percent in respect of the total weight of battery, and portable batteries which are intended for the use of:

禁用范围包括：电池总重量中汞含量低于 2%的按钮电池，以及用于以下用途的便携式电池：

A) Emergency and alerts systems, including lighting of safety signs(such as exit signs).

应急与警报系统，包括安全标志（如出口标志）的照明；

B)Medical equipment. 医疗设备；

C)Wireless power tools.无线动力工具；

4.6 Packaging Requirements 包装要求

4.6.1 Batteries shall be packed based on nature as per the packaging requirements provided in the relevant standard.

电池应根据其性质，按照相关标准中规定的包装要求进行包装。

4.6.2 Consumers and users of batteries shall be warned of the danger of the components used in batteries, as they may cause eye and skin infections or burns and may threat consumer's safety if inhaled or swallowedthem.

应向电池消费者及使用者警示电池中所含组件的危险性，因其可能导致眼部及皮肤感染或灼伤，若吸入或吞食则可能危及消费者安全。

4.6.3 Cells and batteries warehouses shall be well-ventilated and shall not containany sources of ignition.

电芯与电池仓库应保持良好通风状态，且不得存在任何点火源。

Article (5): Labelling

第五条: 标签

5.1 All batteries that contain electrically active components such as (mercury, cadmium and lead) shall bear a mark indicating the method of collection after completion of use and recycling as per the relevant standard.

所有含有电活性成分（如汞、镉和铅）的电池均应标有标识，以标明根据 相关标准完成使用后回收及再循环的方法。

5.2 Labels of batteries intended for offering and placing in the market shall include the following information 用于投放市场的电池标签应包含以下信息：

5.2.1 Information of the manufacturer or supplier 制造商或者供应商的信息；

5.2.2 Trademark of batteries; 电池商标(如有)；

5.2.3 Produce name, Model, voltage (v) and capacity (Ah); 品名，型号，容量，电压

5.2.4 Terminals have clear polarity marking on the external surface of the battery, or the design of the external connector prevents reverse polarity connections

电池的外部表面会有明显的极性标识，或者特殊端子；

5.2.5 Country of origin;原产国；

5.2.6 Warnings and cautions necessary for use and safety;

使用及安全性所需的警告与注意事项；

5.2.7 The labels attached to the products should comply with the regulatory requirements of the corresponding reports. 产品上贴附的标签应符合对应报告的法规要求

5.2.8 All information used on labels shall be true, certified and verifiable;

标签上使用的所有信息均应真实、经认证且可验证；

5.2.9 The images and text used on the product packaging must not violate the laws and regulations of China. 产品包装上使用的图像及文字表述不得违反中国的法律法规

Article (6): Conformity Assessment Procedures

第六条: 符合性评估程序

The supplier shall adhere to the requirements of the conformity assessment procedures set out in this Technical Regulation. All battery products applying for the NCT Mark logo are required to undergo a factory inspection procedure.

供应商应遵守本技术法规中规定的符合性评估程序要求。所有电池产品申请 NCT Mark 标志，都需要进行工厂检查程序。

Article (7): Responsibilities of Regulatory Authorities

第七条: 监管机构的职责

As part of their field of competence and powers, Regulatory Authorities shall:

作为其职权范围的一部分，监管机构应：

7.1 Verify that batteries, subject to this regulation, fulfill the requirements of the specified conformity assessment procedures, and include associated technical documents with batches, in customs ports and factories.

根据本法规要求，须在海关口岸及工厂对电池进行核查，确保其符合指定合格评定程序的要求，并随批次附上相关技术文件。

7.2 Have the right to randomly take samples of products from production point subject to this regulation, and refer such samples to competent laboratories to ascertain if such sample conform to the requirements set out herein.

有权从本法规适用的生产点随机抽取产品样本，并将此类样本送交具有资质的实验室，以确认该样本是否符合本文规定的要求。

7.3 Have the right to charge suppliers (manufacturers/importers) with the costs of tests and associated fees.

有权向供应商（制造商/进口商）收取检测费用及相关附加费用。

7.4 In case of product non-conformity, withdraw such products from warehouses, and take necessary legal measures.

若产品存在不符合标准的情况，应将相关产品从仓库中撤出，并采取必要的法律措施。

Article (8): Responsibilities of Market Surveillance Authorities

第八条: 市场监督管理部门的职责

Market Surveillance Authorities, as a part of their competences, shall:

市场监督管理部门在其职权范围内应:

8.1 Enforce the market surveillance procedures to the products in markets and the products stored in warehouses, in order to check products' safety and the extent of fulfillment of the requirements stipulated in this Technical Regulation and relevant standards.

对市场销售产品及仓库储存产品实施市场监督程序，以核查产品安全性及是否符合本技术法规及相关标准规定的要求。

8.2 Sample the product, from the market or warehouses of suppliers (manufacturers and importers), in order to conduct necessary tests and verify the conformity of such products with the requirements set out herein.

从市场或供应商（制造商及进口商）仓库中抽取产品样本，以进行必要检测并验证该产品是否符合本文规定的要求。

8.3 In case of non-conformity of –supplied or stored –products with the requirements of this Technical Regulation, take all administrative measures including withdrawal and recall of such products. Procedures and penalties –stipulated in Article (9) –shall be applied after taking necessary actions.

若所供或储存的产品不符合本技术法规要求，应采取包括产品撤市及召回在内的全部行政措施。必要措施实施后，须依照第(9)条规定执行相应程序并实施处罚。

Article (9): Violations & Penalties

第九条: 违规行为与处罚

9.1 It is prohibited to manufacture, import, place, display, or advertise products non-conforming with the requirements of the articles stipulated herein.

禁止制造、进口、放置、展示或宣传不符合本文件所规定条款要求的产品。

9.2 Failure to meet the requirements of this Regulation shall be a sufficient reason for Market Surveillance Authorities and Regulatory Authorities to consider the product as non-conforming, including:

未能满足本法规要求将构成市场监督机构及监管机构判定该产品不符合标准的充分依据，包括:

1) Failure to issue or improper issuance of conformity labels, NCT Mark logo.

未发放或不当发放符合性标签, NCT Mark 标识。

2) Failure to issue or improper issuance of the Certificate of Conformity or the Supplier Declaration of Conformity. 未颁发或不当颁发符合性证书或供应商符合性声明。

3) Lack, unavailability, or incompleteness of technical documents.

技术文件的缺失、不可用性或不完整性。

4) Lack, unavailability, or incompleteness of product data/labels or usage

instructions.产品数据/标签或使用说明的缺失、不可用性或不完整性。

9.3 In case of a violation of the provisions hereof, Market Surveillance Authorities shall take all necessary actions to eliminate such violations, and their effects

如发生违反本规定的行为，市场监督管理部门应采取一切必要措施消除此类违规行为及其影视具体情况从市场中撤出。为此，市场监管机构可采取以下措施：

1) Order the violating body—that is responsible for placing and offering of the product—to withdraw the product from the warehouses or markets in order to remedy such violations, if possible. The product may be exported or destroyed (according to the nature of the product) within the period specified by Market Surveillance Authorities.

责令违规主体（即负责产品投放与销售的主体）从仓库或市场召回产品，以纠正此类违规行为（如可行）。根据产品性质，该产品可在市场监管机构规定的期限内予以出口或销毁。

2) Withdraw, restrain or destroy the products, or take any other necessary action to recall such products from the markets. In addition, as the case may be, Market surveillance Authorities may announce the withdrawal of the product from markets, and the violating body shall bear all associated expenses.

应立即采取产品召回、限制销售或销毁等必要措施，将相关产品从市场撤出。此外，市场监管机构可根据具体情况宣布产品退市，违规主体须承担全部相关费用。

3) Deal with non-conforming products covered by this regulation in accordance with laws and regulations applicable in the Regulatory Authorities and Market Surveillance Authorities.

对于本法规所涵盖的不合格产品，应按照监管机构和市场监管机构适用的法律法规进行处理。

9.4 In case of non-conformity of the products, NCT shall take the necessary actions Concerning products non-conforming with the requirements here in, including the cancellation of the relevant Certificate of conformity, while taking the necessary measures with the notified body, which issued the certificate.

产品不符合要求，NCT 应针对不符合本要求的产品采取必要措施，包括撤销相关合格证书，并与签发该证书的公告机构采取必要措施。

9.5 Provided that it does not violate the more stringent penalty provisions stipulated in the applicable regulations, any act that violates the requirements of the product approval standards covered by this technical regulation shall be subject to penalties as prescribed by relevant laws and regulations.

在不违反适用法规中更严厉处罚规定的情况下，任何违反本技术法规所涉产品批准标准要求的行为，均应依照相关法律法规规定予以处罚。

Article (10): General Provisions

第十条: 总则

10.1 The supplier shall bear full legal responsibility for the implementation of the requirements of this technical regulation; if it is confirmed that there is a violation of this clause, corresponding penalties will be imposed in accordance with relevant laws and regulations.

供应商须对本技术法规要求的执行承担全部法律责任；若证实存在违反本条款行为，将依据相关法律法规承担相应处罚。

10.2 This technical regulation shall not prevent suppliers from complying with all other applicable systems/legislation within the China, including regulations related to product trade, transportation or storage, as well as rules/regulations concerning the environment, safety and security.

本技术法规不得妨碍供应商遵守国内所有其他适用的体系/法规，包括与产品贸易、运输或储存相关的规定，以及涉及环境、安全和安保的规则/法规。

10.3 All suppliers of electric batteries subject to the provisions of this Technical Regulation shall provide the inspectors of the Regulatory and Market Surveillance Authorities with all facilitations and necessary information, when required, to carry out their assigned tasks.

根据本技术法规规定，所有蓄电池供应商须在监管机构和市场监督管理部门检查人员执行指定任务时，按要求提供一切必要协助及信息支持。

10.4 Where new cases that cannot be treated under the provisions of this Technical Regulation originate, or where a dispute arises because of the application of those provisions, such matter shall be referred to the competent committee in NCT, in order to issue a proper resolution regarding the case or dispute, while taking the public interest into consideration.

若出现无法依据本技术法规条款处理的新问题，或因适用该条款而产生争议，应将相关事项提交 NCT 主管委员会，以便在考虑公共利益的前提下，就该问题或争议作出适当决议。

10.5 Supplier may submit a new request after elimination of the reasons of rejection for the conformity assessment procedures request after the necessary corrections have been made. The supplier shall be responsible for any additional expenses determined by NCT.

供应商在消除不符合性评估程序请求的拒收原因并完成必要纠正后，可重新提交申请。供应商应承担 NCT 确定的任何额外费用。

10.6 NCT shall examine the complaints received regarding the products having a Certificate of Conformity or a Quality Mark, if any, and verify the validity of such complaints, and take the necessary legal actions in case of any violations.

NCT 应审查收到的关于具有合格证书或质量标志（如有）产品的投诉，核实此类投诉的有效性，并在发现任何违规行为时采取必要的法律措施。

10.7 NCT shall have the right to annul the Certificate of Conformity or the Quality Mark license, if any, if the supplier violates the provisions herein, and shall take the legal actions to ensure the preservation of the rights of NCT.

若供应商违反本协议条款，NCT 有权撤销合格证书或质量标志许可证（如存在），并采取法律措施以保障 NCT 权利。

10.8 When any modifications are made to the product during the validity period of the Certificate of Conformity or the Quality Mark license, if any, (except for morphological modifications), the certificate, license, or the Supplier Declaration of Conformity for such product shall be annulled, and a new request shall be submitted.

若在符合性证书或质量标志许可证有效期内对产品进行任何修改（形态学改变除外），则该证书、许可证或产品供应商符合性声明将被撤销，需重新提交申请。

10.9 NCT shall, exclusively have the right to construe the articles herein. All beneficiaries of the application of this Technical Regulation shall adhere to the interpretations issued by NCT. NCT 应享有对本条款的唯一解释权。本技术法规的所有适用受益方均须遵守 NCT 发布的解释。

Article (11): Transitional Provisions

第十一条: 过渡性规定

11.1 This regulation shall be applied within a period not exceeding 180 days from the date of its publication in the Official Gazette.

本法规自官方公报公布之日起 180 日内生效。

11.2 The supplier must complete the rectification of the market situation in accordance with the requirements of this technical regulation within 365 days from the date when the new regulations are announced. 根供应商须在新法规公布之日起 365 天内，按照本技术法规要求完成市场状况整改。

11.3 This Technical Regulation –once adopted –eliminates all previous regulations in the field of this Technical Regulation.

本技术法规一经通过，即废除该技术法规领域内所有先前法规。

Appendix 1 附录 1

List of Electric Batteries' Products Subject to this Regulation and Relevant Standards

本法规及相关标准所涵盖的电池产品清单

序号 serial number	含标准号 Standard number
1	IEC-62133-1
2	IEC 60335-2-29
3	IEC-62509
4	IEC-62637-2
5	IEC-62680-1-1
6	IEC-62637-1
7	SASO-IEC-TR-61044
8	SASO-IEC-60222
9	SASO-IEC-60223
10	SASO-IEC-60500-482
11	UNECE Regulation 100
12	SASO-IEC-60896-11
13	SASO-IEC-60896-21
14	SASO-IEC-61056-1
15	SASO-IEC-TS-61430
16	SASO IEC 62660-1
17	SASO IEC 62660-2
18	SASO IEC 62660-4
19	SASO IEC 63193
20	SASO-IEC-62485-1
21	SASO-IEC-62485-2
22	SASO-IEC-61429
23	ISO 7000-1135
24	SASO-IEC-TR-61438
25	SASO-IEC-TR-62060
26	SASO-IEC-TR-62188
27	SASO-IEC-TS-62257-8-1
28	SASO IEC 62281
29	SASO IEC 62840-2
30	SASO IEC 62660-3
31	IEC 60086-4:2025
32	EN IEC 60086-4:2025
33	BS EN IEC 60086-4:2025
34	IEC 60086-5:2021
35	EN IEC 60086-5:2021
36	BS EN IEC 60086-5:2021
37	IEC 61951-1:2017+AMD1:2023
38	EN 61951-1:2017+A1:2023
39	IEC 61960-3:2017
40	EN 61960-3:2017
41	IEC 61951-2:2017+AMD1:2022
42	EN 61951-2:2017+A1:2022
43	UL 2054-2022
44	UL 1642-2022
45	IEC 62620:2014+AMD1:2023
46	EN 62620:2015+A1:2023
47	BS EN 62620:2015+A1:2023
48	IEC 62619:2022
49	EN IEC 62619:2022
50	IEC 62281:2019+AMD1:2021+AMD2:2023
51	EN IEC 62281:2019+A1:2021+A2:2023
52	BS EN IEC 62281:2019+A2:2023
53	ANSI/CAN/UL/ULC 2271: 2023 S
54	IEC 62133-1:2017

55	EN 62133-1:2017
56	UL 62133-1: 2020
57	ANSI/UL62133-1-2020 (R2025)
58	CSA C22.2 NO.62133-1:20
59	IEC 62133-2: 2017+AMD1:2021
60	EN 62133-2: 2017 +A1:2021
61	UL 62133-2: 2024
62	CSA C22.2 NO. 62133-2:20/A1: 24
63	BS EN 62133-2:2017+A1:2021
64	IEC 61960-4: 2024
65	EN IEC 61960-4: 2024
66	BS EN IEC 61960-4:2024
67	JIS C 62133-2: 2020
68	JIS C 8715-1: 2018
69	JIS C 8715-2: 2024
70	IEC 62660-2:2018
71	IEC 62660-3:2022
72	ANSI/CAN/UL 1973: 2022
73	ANSI/CAN/UL/ULC 2580:2022
74	ANSI C18.1M, Part 1-2021
75	ANSI/NEMA C18.1M - Part 1-2025
76	ANSI C18.1M Part 2-2024
77	ANSI C18.3M Part 1-2024
78	ANSI C18.3M Part 2-2024
79	UL 4200A:2023
80	EN 50604-1:2016/A2:2025
81	BS EN IEC 62281:2019+A2:2023 S
82	ANSI/CAN/UL 2056:2025
83	ANSI/CAN/UL2743
84	IEC 60086-1:2021
85	BS EN IEC 60086-1:2021(2022)
86	EN IEC 60086-1:2021
87	IEC 60086-2:2021
88	EN IEC 60086-2:2021
89	BS EN IEC 60086-2:2021(2022)
90	AS IEC 62619:2023
91	IEC 63056: 2020
92	EN IEC 63056:2020 S
93	BS EN IEC 63056:2020(2021)
94	EN61960-3:2017
95	ANSI/CAN/UL/ULC 2271:2023
96	ST/SG/AC.10/1/Rev.24
97	UL 62133-1:2020
98	ST/SG/AC.10/11/Rev.8/Amend.1
99	IEC 62133-2:2017+AMD1:2021
100	EN 62133-2:2017+A1:2021
101	UL 62133-2:2024
102	CSA C22.2 NO. 62133-2:20/A1:24
103	IEC 61960-4:2024
104	EN IEC 61960-4:2024
105	JIS C 62133-2:2020
106	JIS C 8715-1:2018
107	ANSI/CAN/UL 1973:2022
108	IEC 63056:2020
109	EN IEC 63056:2020