

ICS 25.180.10

CCS K61



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 10067.1-2019

Replacing GB/T 10067.1-2005

**Basic specifications for electroheating and electromagnetic
processing installations - Part 1: General**

电热和电磁处理装置基本技术条件 第1部分：通用部分

Issued on: August 30, 2019

Implemented on: March 1, 2020

**Issued by: State Administration for Market Regulation;
Standardization Administration of China**

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Foreword

GB/T 10067 "Basic Technical Conditions for Electrothermal and Electromagnetic Treatment Devices" is divided into the following sections.

- Part 1. General part;
- Part 2. Arc heating device;
- Part 21. Large AC arc furnace;
- Part 3. Induction heating device;
- Part 31. Intermediate frequency centerless induction furnace;
- Part 32. Voltage type frequency conversion multiple intermediate frequency centerless induction furnace complete sets;
- Part 33. Power frequency centerless induction melting copper furnace;
- Part 34. Transistor type high frequency induction heating device;
- Part 35. Intermediate frequency vacuum induction melting furnace;
- Part 4. Indirect resistance furnace;
- Part 41. Mesh belt type resistance heating unit;
- Part 42. Push-type resistance heating unit;
- Part 43. Forced convection well type resistance furnace;

1 Scope

GB/T 10067.1-2019 is the Chinese national standard on basic specifications for electroheating and electromagnetic processing installations - part 1: general, in the field of manufacturing engineering. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 30 August 2019 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 March 2020. Classification: ICS 25.180.10, CCS K61. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This part of GB/T 10067 specifies the product classification, technical requirements and test methods common to all types of electrothermal and electromagnetic treatment equipment products. Law, inspection rules, marking, packaging, transportation, storage,

ordering and delivery. This section applies to all types of industrial and experimental electrothermal and electromagnetic treatment devices, including resistance furnaces, induction heating devices, direct arc furnaces, Submerged arc furnace, electroslag remelting furnace, infrared heating device, medium heating device, microwave heating device, electric heating device with electron gun, plasma electric heating A device, a laser electric heating device, and the like, and a device that electromagnetically processes a material by electromagnetic action (force). This section does not apply to electric heating appliances, welding equipment and building heating facilities for household and similar purposes.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article. Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 2900 (all parts) General rules and safety requirements for

GB/T 3766 hydraulic drive systems and their components

GB/T 3797 electrical control equipment

GB/T 4879 anti-rust packaging

GB/T 5048 moisture-proof packaging

GB 5959 (all parts) Safety of electrothermal and electromagnetic treatment devices

GB/T 5959.1-2019 Safety of electrothermal and electromagnetic treatment systems - Part 1. General requirements

GB/T 10066 (all parts) Test methods for electrothermal and electromagnetic treatment devices GB/T 13306 signage

GB/T 13384-2008 General technical conditions for mechanical and electrical product packaging

GB/T 20626.1 Special environmental conditions - Plateau electric and electronic products - Part 1. General technical requirements

GB/T 30839.1 Energy consumption of industrial electric heating devices - Part 1. General requirements

JB/T 4159 General technical requirements for tropical electrical products

JB/T 9691 Electric heating equipment product model preparation method

3 Terms and definitions

The following terms and definitions, as defined in GB/T 2900 (all parts) and GB/T 10066 (all parts), apply to this document. For ease of use, some of the terms and definitions in GB/T 2900.23 are repeated below.

Note. Unless otherwise stated, in the case of AC, both "voltage" and "current" refer to valid values. The electric parameter with the word "rated" in front is used to refer to the electric heating equipment. And the electromagnetic processing equipment itself, if necessary, can be further explained.

3.1 Electrothermal equipment electroheating equipment For the purpose of use, electrical energy is converted into a hot device. GB/T 10067.1-2019 (Basic technical requirements for electrothermal and electromagnetic treatment systems - Part 1. General part) ICS

61 National Standards of People's Republic of China Replace GB/T 10067.1-2005 Basic technical conditions for electrothermal and electromagnetic treatment devices Part 1. General part Basic specifications for electroheating and electromagnetic processing installations-Part

1.General Published on.2019-08-30 2020-03-01 implementation State market supervision and administration China National Standardization Administration issued