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

GB/T 10067.34-2015

**Basic specifications for electroheat installations - Part 34:
Transistor type high frequency induction heating installation**

电热装置基本技术条件 第34部分：晶体管式高频感应加热装置

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Foreword

GB/T 10067 "Basic electric device technical conditions" existing 25 sections.

- Part 1. Common part;
- Part 2. Arc heating device;
- Part 21. Large AC arc furnace;
- Part 3. induction electric device;
- Part 31. IF coreless induction furnace;
- Part 32. voltage-frequency multi-station frequency coreless induction furnace complete sets of equipment;
- Part 33. frequency coreless induction melting Tonglu;
- Part 34. Transistor high frequency induction heating apparatus;
- Part 35. IF vacuum induction melting furnace;
- Part 4. Indirect resistance furnaces;
- Part 41. network with resistance heating unit;
- Part 42. Push resistance heating unit;
- Part 43. Forced convection Pit resistance furnace;

1 Scope

GB/T 10067.34-2015 is the Chinese national standard on basic specifications for electroheat installations - part 34: transistor type high frequency induction heating

installation, 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 9 October 2015 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 May 2016.

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 section GB/T 10067 specifies the Transistor high frequency induction heating device product classification, technical requirements, test methods, inspection Rules, grading, marking, packaging, transportation, storage and ordering and delivery and so on. This section applies to the use of high frequency power transistor as a power supply, and is mainly used for heat-treating metal parts (such as surface hardening, Tempering, annealing, etc.) of the induction heating device. This section is also available for metal parts and metal materials through the heat, melting and welding, etc. Transistor high frequency induction heating device reference.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 2900.23-2008 Electrotechnical terminology industrial electric equipment

GB/T 3797-2005 Electric Control Equipment

GB/T 3984.1-2004 Power capacitors for induction heating installations - Part 1. General (IEC 60110-1.1998, IDT)

GB 8702-2014 electromagnetic environment control limit

GB/T 10066.1-2004 Test methods for electroheat installations - Part 1. General section

GB/T 10066.31-2007 Test Method for electric devices - Part 31. high frequency induction heating apparatus of the generator output power Determination

GB/T 10067.1-2005 basic technical conditions for electric devices - Part 1. General section

GB/T 10067.3-2015 Electric equipment basic technical conditions - Part 3. induction electric device

JB/T 9691-1999 Heating Equipment Model methodology

3 Terms and Definitions

GB/T 2900.23-2008 and GB/T 10067.3-2015 and as defined in the following terms and definitions apply to this document.

3.1 Transistor high frequency power supply transistor type high frequency power supply First by the three-phase rectifier frequency alternating current into direct current and direct current stream into high-pass transistor inverter Frequency current power supplies, hereinafter referred to as high-frequency power.

3.2 High-frequency power efficiency efficiency of high frequency power supply High-frequency output power and its commercial power supply input power ratio.

3.3 Operating Frequency working frequency High-frequency power and the provisions on the nameplate output frequency of the high-frequency power supply design, it is usually as a range.