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

GB/T 14715-2017

Replacing GB/T 14715-1993

**Generic specification of uninterruptible power supply for
information technical equipment**

信息技术设备用不间断电源通用规范

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard replaces GB/T 14715-1993 "General technical conditions for uninterruptible power supplies for information technology equipment." This standard and GB/T 14715- The main technical changes in.1993 are as follows:

- Chapter 1 "Scope" has been revised (see Chapter 1,.1993 edition Chapter 1).
- Chapter 2, "Normative references" were revised (see Chapter 2,.1993 edition Chapter 2).
- Chapter 3 "Terms and definitions" has been revised (see Chapter 3,.1993 edition Chapter 3).
- Added Chapter 4 "Abbreviations", the subsequent chapter number made the appropriate changes.
- Chapter 5 "Classification" was revised (see Chapter 5,.1993 edition Chapter 4).
- 6.3 "Main Performance" has been revised (see 6.3,.1993 version 5.1).
- Chapter 6 "technical requirements" added "functional requirements."
- Chapter 6 "technical requirements" added "battery."
- Chapter 6 "technical requirements" added "energy efficiency."
- Chapter 7 was revised (see Chapter 7,.1993 edition Chapter 6).
- Chapter 8 was revised (see Chapter 8,.1993 edition of Chapter 7).
- Chapter 9 was revised (see Chapter 9,.1993 edition of Chapter 8).
- Removed Appendix A Association failure and non-associated failure (supplement).

1 Scope

GB/T 14715-2017 is the Chinese national standard on generic specification of uninterruptible power supply for information technical equipment, in the field of information

technology. 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 29 December 2017 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 July 2018. Classification: ICS 35.160, CCS L85. 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 standard specifies the information technology equipment with uninterruptible power supply (hereinafter referred to as. UPS) technical requirements, test methods, quality assessment procedures And logo, packaging, transportation, storage and so on. This standard applies to the design, manufacture and testing of information technology equipment used by UPS, the UPS used in other occasions can refer to use.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 191 Packaging - Pictorial signs

GB/T 2421.1 Electrical and Electronic Products Environmental Testing Overview and Guidelines

GB/T 2422 Environmental test methods for the preparation of guideline terms and definitions

GB/T 3859.1 General requirements for semiconductor converters and commutation converter - Part 1-1 - Basic requirements specification

GB/T 3859.2 General requirements for semiconductor converters and commutation converter - Part 1-2 - Application guide Information technology - Equipment safety - Part 1. General requirements

GB/T 5080.7 equipment reliability test under constant failure rate under the assumption of failure rate and MTBF validation test program

GB/T 9254 Information technology equipment radio disturbance limits and measurement methods

GB/T 15934 electrical accessories wire components and interconnecting wire components

GB/T 17618 Information Technology Equipment Immunity Limits and Methods of

Measurement

GB 17625.1-2012 electromagnetic compatibility limit harmonic current emission limit
(equipment input current per phase $\leq 16\text{A}$)

GB/T 18455 packaging recycling mark

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Uninterruptible power system; UPS By the converter, switches and energy storage devices (such as batteries) combination of composition, in the AC input power supply anomalies, to maintain the load power even Renewable power supply.

3.2 Double conversion run doubleconversion When the UPS is running, the continuity of the load power is maintained by the inverter. In the normal operation mode, the inverter uses the energy of the DC link, The energy of the energy storage system is used when the battery is powered on. Output Voltage and Frequency vs. AC Input Supply Voltage and Frequency Conditions Nothing to do

3.3 UPS interactive operation UPSlineinteractiveoperation UPS operation, in normal operation, the continuity of load power by the use of UPS inverter or a power interface to protect