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

GB/T 30556.5-2025

**Electromagnetic compatibility - Installation and mitigation
guidelines - Part 5: Specification of protective devices for HEMP
conducted disturbance**

(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is part 5 of GB/T (Z) 30556 "Electromagnetic Compatibility Installation and Mitigation Guidelines". GB/T (Z) 30556 has been published the following parts.

- General requirements (GB/Z 30556.1);
- Grounding and wiring (GB/Z 30556.2);
- Protection concept against high altitude nuclear electromagnetic pulse (HEMP) (GB/Z 30556.3);
- Part 5: Specification for HEMP conducted disturbance protection devices (GB/T 30556.5);
- Electromagnetic disturbance protection level of enclosure (EM code) (GB/T 30556.7);
- Part 8: HEMP protection methods for distributed infrastructure (GB/Z 30556.8);
- Part 9: Coefficient level sensitivity evaluation of HEMP and HPEM (GB/Z 30556.9).

This document is equivalent to IEC 61000-5-5:1996 "Electromagnetic compatibility Part 5: Installation and mitigation guidelines Part 5.

HEMP conducted disturbance protection device specification basis EMC publication.

The following minimal editorial changes were made to this document.

- In order to adapt to my country's standard system, the name of the standard was changed to "Electromagnetic Compatibility Installation and Mitigation Guidelines Part 5: HEMP "Specifications for Conducted Disturbance Protection Devices".

Introduction

Electromagnetic compatibility refers to the ability of electrical and electronic equipment or systems to work properly in their electromagnetic environment and not cause any adverse effects on anything in the environment.

The electromagnetic compatibility problem is one of the important factors affecting the environment and product quality. Its standardization work has attracted in this regard, the IEC 61000 series of standards developed by the International Electrotechnical Commission (IEC) is a key standard for the manufacturing and information industries.

General standards in the fields of industry, electrical engineering and energy, transportation, social services and health, consumer product quality and safety, etc.

There are six categories. description, environment, limit, test and measurement technology, installation and mitigation guidelines, and general standards. my country has carried out research on this series of standards.

Domestic transformation work has been carried out and a corresponding national standard system has been established.

In this standard system, GB/T (Z) 30556 "Electromagnetic Compatibility Installation and Mitigation Guidelines" is about the installation and mitigation of electromagnetic compatibility.

The basic standard on measures aims to describe the electromagnetic environment protection methods, devices, mitigation methods, etc., and is planned to consist of 10 parts.

--- General requirements (GB/Z 30556.1). The purpose is to provide general requirements and guidelines for mitigation methods to ensure that and electromagnetic compatibility of electrical and electronic equipment or systems used in industrial environments.

--- Grounding and wiring (GB/Z 30556.2). The purpose is to provide grounding and wiring guidelines for electrical and electronic equipment and facilities.

Ensure the electromagnetic compatibility of electrical and electronic equipment or systems.

--- Protection concept of high altitude nuclear electromagnetic pulse (HEMP) (GB/Z 30556.3). The purpose is to provide relevant information on the protection of civil facilities against Adequate protection design for HEMP, assessment of the strength of the HEMP to be sustained by existing protection, requirements for HEMP protection and lightning protection Basic information on the differences in requirements.

--- Part 4: HEMP immunity HEMP disturbance protection device technical specification (expected to be Part 4). The purpose is to to specify the protective devices used to protect civilian systems from HEMP effects, in order to unify the technologies that have been or will be released by all parties specification.

--- Part 5: Specification for HEMP conducted disturbance protection devices (GB/T 30556.5). The purpose is to describe the the corresponding parameter index specifications of the disturbance protection device are guaranteed by the manufacturer of the protection device, the manufacturer of the electronic equipment, the official agency conformity with existing or future specifications published by the organization and other end users.