

ICS 33.100.20

CCS L 06



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

GB/Z 30556.1-2017

**Electromagnetic compatibility -- Installation and mitigation
guidelines -- General considerations**

Issued on: December 29, 2017

Implemented on: July 1, 2018

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China, Standardization
Administration of the People's Republic of China**

Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

Foreword

The EMC Guidelines for Installation and Mitigation currently include the following sections.

--- GB /Z 30556.2-2017 Electromagnetic compatibility installation and mitigation guidelines for grounding and wiring;

--- GB/T 30556.7-2014 Electromagnetic compatibility installation and mitigation guidelines Enclosure electromagnetic disturbance protection class.

This section is Part 1 of the "Guidelines for Installation and Mitigation of Electromagnetic Compatibility."

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses the translation method identical to the International Standard IEC /T R61000-5-1.1996 "Electromagnetic Compatibility Part 5-1 Installation and Subtraction

Slow guidance is generally required. "

The documents of our country that are consistent with the corresponding international documents that are normative references in this section are as follows.

--- GB/T 4365-2003 Electrotechnical terminology Electromagnetic compatibility [IEC 60050 (161) .1990, IDT];

--- GB/T 2900.71-2008 Electrotechnical terminology electrical installations [IEC 60050 (826) .2004, IDT];

--- GB/T 17624.1-1998 Electromagnetic compatibility Overview Electromagnetic compatibility basic terms and definitions of the application and interpretation [IEC 61000-1-1.1992, IDT];

--- GB /Z 18039.1-2000 Electromagnetic compatibility Environment Electromagnetic environment classification [IEC 61000-2-5.1996, IDT];

--- GB/T 17626 electromagnetic compatibility test and measurement technology (IEC

61000-4, IDT) (all parts).

This part of the National Electromagnetic Compatibility Standardization Technical Committee (SAC/TC246) and focal point.

This section is drafted unit. Shanghai Institute of Measurement and Testing Technology, Ministry of Industry and Information Technology Institute of Electronics Industry Standardization, China Power

Scientific Research Institute, the recognition is still moving (Shanghai) Testing Technology Co., Ltd., Shanghai Exit Inspection and Quarantine, Suzhou Tai Site Electronic Technology Co., Ltd.

Secretary, Nanjing Nat Communications Electronics Co., Ltd.

1 Scope

In order to ensure the electromagnetic compatibility (EMC) of electrical and electronic equipment or systems used in industrial, commercial and residential environments, "Electromagnetic

This section of the Guidance on Capacity Building and Mitigation gives general requirements and guidance on mitigation methods. Suitable for those sensitive electrical or electronic equipment

And systems and installations that may have a high emission level that may degrade the overall ambient electromagnetic (EM) environment, users, and a range of

manufacturer. Mainly applicable to new facilities, but also to the expansion and improvement of existing facilities where economic conditions permit.

Suggestions for some specific issues are given elsewhere in the EMC Guide to Installation and Mitigation. For example. Grounding system

Including the design and implementation of grounded electrodes and grounded networks, the design and implementation of lapsing instruments or systems with earth or grounded networks, suitable cables

As well as the design and implementation of mitigation measures including shielding housings, high frequency filters, isolation transformers and surge protection devices.

The recommendations on EMC aspects of the facilities given in this section are neither safety nor the effective transmission of electricity in the facility

Lose side However, these two main aspects are also considered in the EMC recommendations. Increase installed sensitive devices or systems

EMC, these two aspects can be implemented simultaneously, and with the application of this section recommended practices and standards such as IEC 60364 [3] series

Those related safety requirements are not contradictory. Because each facility is unique, designers and installers are responsible for specific facilities

Choose the most relevant recommendations.

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.

IEC 60050 (161) .1990 International Electrotechnical Vocabulary chapter 161. Electromagnetic compatibility [International Electrotechnical Vocabulary (IEV) -Chapter161.Electromagneticcompatibility]

IEC 60050 (826) .1982 International Electrotechnical Vocabulary Chapter 826. Electrical installation of buildings [International Electrotechnical-Vocabulary (IEV) -Chapter826.Electricalinstalationsofbuildings]

IEC 61000-1-1.1992 Electromagnetic compatibility (EMC) Part 1. Overview Chapter 1. Basic terms and definitions of the application and interpretation [Electromagneticcompatibility (EMC) -Part 1.General-Section1.Applicationandinterpretation offundamentaldefinitionsandterms]

IEC 61000-2-5.1995 Electromagnetic compatibility (EMC) Part 2. Environment Chapter 5. Classification of the electromagnetic environment Electromagnetic compatibility Standard [Electromagneticcompatibility (EMC) -Part 2.Environment-Section5.Classificationof electromagneticenvironments-BasicEMCpublication]

IEC 61000-4 Electromagnetic compatibility (EMC) Part 4. Test and measurement techniques [Electromagneticcompatibility (EMC) -Part 4.Testingandmeasurementtechniques] (all parts)

IEC 61024-1.1990 lightning protection of buildings Part 1. General principles [Protectionofstructuresagainst lightning-Part 1.Generalprinciples]

3 Terms and definitions

Terms and definitions defined in IEC 60050 (161) and IEC 60050 (826) apply to this

document.

A list of abbreviations is provided at the end of this chapter.

chinastandards.org · PREVIEW