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

GB/T 17626.24-2012

**Electromagnetic compatibility -- Testing and measurement
techniques -- Test methods for protective devices for HEMP
conducted disturbance**

电磁兼容 试验和测量技术 HEMP传导骚扰保护装置的试验方法
(English Translation)

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Foreword

GB/T 17626 "electromagnetic compatibility test and measurement technology" into the following sections.

GB/T 17626.1-2006 Electromagnetic compatibility - Testing and measurement techniques - Overview of immunity tests
GB/T 17626.2-2006 Electromagnetic compatibility - Testing and measurement techniques - Electrostatic discharge immunity test
GB/T 17626.3-2006 Electromagnetic compatibility - Testing and measurement techniques RFEMS test
GB/T 17626.4-2008 Electromagnetic compatibility - Testing and measurement techniques - Electrical fast transient burst immunity test
GB/T 17626.5-2008 Electromagnetic compatibility - Testing and measurement techniques - Surge (impact) immunity test
GB/T 17626.6-2008 Electromagnetic compatibility - Testing and measurement techniques Immunity to conducted disturbances induced field
GB/T 17626.7-2008 Electromagnetic compatibility - Testing and measurement techniques - power supply systems and equipment connected harmonics, interharmonics measurements and Measuring Instruments Guide
GB/T 17626.8-2006 Electromagnetic compatibility - Testing and measurement techniques - Power frequency magnetic field immunity test
GB/T 17626.9-2011 Electromagnetic compatibility - Testing and measurement techniques - Pulse magnetic field immunity test
GB/T 17626.10-1998 electromagnetic compatibility test and measurement techniques - Damped oscillatory magnetic field immunity test
GB/T 17626.11-2008 Electromagnetic compatibility Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity test
GB/T 17626.12-1998 electromagnetic compatibility test and measurement techniques - Oscillatory waves immunity test
GB/T 17626.13-2006 electromagnetic compatibility test and measurement technology AC power port harmonics and interharmonics including mains signaling Low frequency immunity tests
GB/T 17626.14-2005 Electromagnetic compatibility Testing and measurement techniques - Voltage fluctuation immunity test
GB/T 17626.15-2011 electromagnetic compatibility test and measurement technology scintillation Functional and

design specifications GB/T 17626.16-2007 electromagnetic compatibility test and measurement technology 0Hz ~ 150kHz common mode conducted disturbances immunity test GB/T 17626.17-2005 electromagnetic compatibility test and measurement technology dc input power port immunity test ripple GB/T 17626.27-2006 Electromagnetic compatibility Testing and measurement techniques - Unbalance, immunity test GB/T 17626.28-2006 electromagnetic compatibility test and measurement techniques - Variation of power frequency, immunity test GB/T 17626.29-2006 electromagnetic compatibility test and measurement technology dc input power port voltage dips, short interruptions and Voltage variations immunity tests GB/T 17626.30-2012 electromagnetic compatibility test and measurement techniques - Power quality measurement methods this section GB/T 17626 of Part 24.

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

This section identical with the international standard IEC 61000-4-24:1997 "4-24 unit of electromagnetic compatibility (EMC) Testing and measurement techniques Points. HEMP test methods for protective devices conduction harassment. " Electromagnetic Compatibility This part of the National Standardization Technical Committee (SAC/TC246) centralized.

This section is responsible for drafting units. China Electric Power Research Institute.

This part of the unit involved in the drafting. State Grid Electric Power Research Institute.

1 Scope

GB/T 17626 provisions of this part of the test method for high-altitude electromagnetic pulse (HEMP) conducted disturbance protection devices. It includes Breakdown voltage and test voltage limiting characteristics, as well as the conditions under HEMP, voltage (u) and current (i) as a function of time when rapid change Methods of measurement of residual voltage.

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 4365-2003 Electrotechnical terminology Electromagnetic compatibility (IEC 60050 (161).1990, IDT)

3 Terms and Definitions

The following terms and definitions apply to this document.

DUT

Test apparatus.

Gas discharge tube One or several sealing gap of two or three metal electrode, and the gas pressure within the gas mixture can be controlled to protect Equipment or operator from high transient voltage damage.

Primary protection element from the unprotected side protection measures, the first set of shunt most of the surge current protection element.

Protection side protectedside Protection measures, the protected side of the device is located.

Unprotected side Protection measures, the surge side will appear.

4.1 Overview

Under HEMP conditions, protection of actual performance depends largely on the way it is connected to applications, as well as nearby