



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

GB/T 17626.2-2018

**Electromagnetic compatibility -- Testing and measurement
techniques -- Electrostatic discharge immunity test**

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Foreword

GB/T 17626 Electromagnetic Compatibility - Testing and Measurement Techniques currently contains the following parts.

- GB/T 17626.1-2006 Electromagnetic Compatibility - Testing and Measurement Techniques - Overview of Immunity Tests;
- GB/T 17626.2-2018 Electromagnetic Compatibility - Testing and Measurement Techniques - Electrostatic Discharge Immunity Test;
- GB/T 17626.3-2016 Electromagnetic Compatibility - Testing and Measurement

Techniques - Radiated, Radio-Frequency, Electromagnetic Field Immunity Test;
--- GB/T 17626.4-2018 Electromagnetic Compatibility - Testing and Measurement
Techniques - Electrical Fast Transient/Burst-immunity Test;
--- GB/T 17626.5-2008 Electromagnetic Compatibility - Testing and Measurement
Techniques - Surge Immunity Test;
--- GB/T 17626.6-2017 Electromagnetic Compatibility - Testing and Measurement
Techniques - Immunity to Conducted Disturbances, Induced by Radio-
Frequency Fields;
--- GB/T 17626.7-2008 Electromagnetic Compatibility - Testing and Measurement
Techniques - General Guide on Harmonics and Inter-Harmonics Measurements
and Instrumentation for Power Supply Systems and Equipment;
--- 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 17626.10-2017 Electromagnetic Compatibility - Testing 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
Tests;
--- GB/T 17626.12-2013 Electromagnetic Compatibility - Testing and Measurement
Techniques - Ring Wave Immunity Test;
--- GB/T 17626.13-2006 Electromagnetic Compatibility - Testing and Measurement
Techniques - Harmonics and Inter-Harmonics including Mains Signaling at A.C.
Power Port Low Frequency Immunity Test;
--- GB/T 17626.14-2005 Electromagnetic Compatibility - Testing and Measurement
Techniques - Voltage Fluctuation Immunity Test;
--- GB/T 17626.15-2011 Electromagnetic Compatibility - Testing and Measurement

Techniques - Flicker-Meter - Functional and Design Specifications;

--- GB/T 17626.16-2007 Electromagnetic Compatibility - Testing and Measurement Techniques - Test for Immunity to Conducted Common Mode Disturbances in the Frequency Range 0 Hz to 150 kHz;

--- GB/T 17626.17-2005 Electromagnetic Compatibility - Testing and Measurement Techniques - Ripple on D.C. Input Power Port Immunity Test;

--- GB/T 17626.18-2016 Electromagnetic Compatibility - Testing and Measurement Techniques - Damped Oscillatory Wave Immunity Test;

--- GB/T 17626.20-2014 Electromagnetic Compatibility - Testing and Measurement Techniques - Emission and Immunity Testing in Transverse Electromagnetic (TEM) Waveguide;

--- GB/T 17626.21-2014 Electromagnetic Compatibility - Testing and Measurement Techniques - Reverberation Chamber Test Methods;

--- GB/T 17626.22-2017 Electromagnetic Compatibility - Testing and Measurement Techniques - Radiated Emissions and Immunity Measurements in Fully Anechoic Rooms (Fars);

--- GB/T 17626.24-2012 Electromagnetic Compatibility - Testing and Measurement Techniques - Test Methods for Protective Devices for HEMP Conducted Disturbance;

--- GB/T 17626.27-2006 Electromagnetic Compatibility - Testing and Measurement Techniques - Unbalance Immunity Test;

--- GB/T 17626.28-2006 Electromagnetic Compatibility - Testing and Measurement Techniques - Variation of Power Frequency Immunity Test;

--- GB/T 17626.29-2006 Electromagnetic Compatibility - Testing and Measurement Techniques - Voltage Dips Short Interruptions and Voltage Variations on D.C. Input Power Port Immunity Tests;

--- GB/T 17626.30-2012 Electromagnetic Compatibility - Testing and Measurement Techniques - Power Quality Measurement Methods;

--- GB/T 17626.34-2012 Electromagnetic Compatibility - Testing and Measurement Techniques - Voltage Dips, Short Interruptions and Voltage Variations Immunity Tests for Equipment with Mains Current more than 16 A per Phase.

This Part is Part 2 of GB/T 17626.

This Part was drafted as per the rules specified in GB/T 1.1-2009.

This Part replaced GB/T 17626.2-2006 Electromagnetic Compatibility (EMC) - Testing and Measurement Techniques - Electrostatic Discharge Immunity Test.

Compared with GB/T 17626.2-2006, this Part has the major technical changes as follows.

- Increase calibration procedures and measurement uncertainty in the Scope;
- Increase terminology. calibration, conformance test, rise time, verification;
- Modify Clause 5. Test Levels;
- Increase charging switch in the test generator;
- Modify the diagram of electrostatic discharge generator;
- Increase the characteristics and performance of the ESD generator (see 6.2);
- Add verification of ESD setup (see 6.3);
- Add A.8 (see Annex A);
- Modify Annex B into Calibration of the current measurement system and measurement of discharge current;
- Add Annex C. Example of a calibration target meeting the requirements;
- Add Annex D. Radiated fields from human metal discharge and ESD;
- Add Annex E. Measurement uncertainty (MU) considerations;
- Add Annex F. Variation in test results and escalation strategy.

This Part uses the translation method to equivalently adopt IEC 61000-4-2:2008 Electromagnetic Compatibility (EMC) - Part 4-2. Testing and Measurement Techniques - Electrostatic Discharge Immunity Test.

The Chinese document that has a consistent correspondence with the international documents quoted in the Normative References of this Part is as follows.