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

**GB 20840.1-2010**

Replacing GB/T 20840.1-2010, GB/T 20840.6-2017

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**Instrument transformers - Part 1: General technical  
requirements  
(English Translation)**

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## Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is Part 1 of GB/T (Z)20840 "Mutual Inductors". GB/T (Z)20840 has the following parts published.

---Part 1: General Technical Requirements;

---Part 2: Supplementary Technical Requirements for Current Transformers;

- Part 3: Supplementary Technical Requirements for Electromagnetic Voltage Transformers;
- Part 4: Supplementary Technical Requirements for Combined Instrument Transformers;
- Part 5: Supplementary Technical Requirements for Capacitive Voltage Transformers;
- Part 7: Electronic Voltage Transformers;
- Part 8: Electronic Current Transformers;
- Part 9: Digital Interface of Instrument Transformers;
- Part 10: Supplementary Technical Requirements for Low-Power Passive Current Transformers;
- Part 11: Supplementary Technical Requirements for Low-Power Passive Voltage Transformers;
- Part 14: Supplementary Technical Requirements for DC Current Transformers;
- Part 15: Supplementary Technical Requirements for DC Voltage Transformers;
- Part 99: Terminology;
- Part 102: Ferromagnetic Resonance in Substations with Electromagnetic Voltage Transformers;
- Part 103: Application of instrument transformers in power quality measurement.

This document supersedes GB/T 20840.1-2010 "Electrical Transformers - Part 1: General Technical Requirements" and GB/T 20840.6-2017 "Electrical Transformers - Part 1: General Technical Requirements".

"Instruments - Part 6: Supplementary General Technical Requirements for Low-Power Instrument Transformers". This document is based on GB/T 20840.1-2010 and integrates...

The content of GB/T 20840.6-2017. Compared with GB/T 20840.1-2010, apart from structural adjustments and editorial changes, the main technical differences are...

The changes are as follows.

- Added all the content of GB/T 20840.6-2017 (see full text);
- The scope of application has been changed to apply to AC systems with a nominal voltage greater than 1kV or DC systems with a rated frequency of [missing information].  
DC high-voltage equipment for 15Hz~400Hz or DC applications (see Chapter 1, Chapter 1 of GB/T 20840.1-2010);
- Terms and definitions are changed to directly reference the terms and definitions defined in GB/T 20840.99 (see Chapter 3, GB/T 20840.1-).