

ICS 29.200; 29.240.99
CCS K 46



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

GB/T 20996.1-2020

Replacing GB/Z 20996.1-2007

**Performance of high-voltage direct current (HVDC) systems
with line-commutated converters - Part 1: Steady-state
conditions**

Issued on: December 14, 2020

Implemented on: July 1, 2021

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

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Foreword

GB/T 20996 "Performance of HVDC System Using Grid Commutation Converter" is divided into 3 parts:

- Part 1: Steady state;
- Part 2: Failure and operation;
- Part 3: Dynamics:

This part is Part 1 of GB/T 20996:

This section was drafted in accordance with the rules given in GB/T 1:1-2009:

This part replaces GB /Z 20996:1-2007 "Performance of High Voltage Direct Current System Part 1: Steady State", and is compatible with GB /Z 20996:1-2007

The main technical changes compared to:2007 are as follows:

---Change the "General Provisions" and "Overview of HVDC System Steady-State Performance Specifications" to "Scope" and "Normative Reference Documents" (see Chapter 1,

Chapter 2, Chapter 1 and Chapter 2 of the:2007 edition);

--- "Scope" has been added "This part only includes power grid commutated converters, including converters with capacitor commutated circuit structure:"

Grid commutation semiconductance of voltage source converters given in IEC 60146-1-1, IEC TR60146-1-2 and IEC 60146-1-3