

ICS 27.140
CCS F 14



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

GB/T 45311-2025

Tidal energy converter - Sea trial technical requirements

潮流能转换装置 海上试验技术要求

Issued on: February 28, 2025

Implemented on: September 1, 2025

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

Preface	III
Introduction	IV
1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 Symbols and abbreviations	3
4.1 Symbols	3
4.2 Abbreviations	3
5 General Requirements	3
5.1 Test content	3
5.2 Other requirements	4
6 Outline of Sea Trials	4
6.1 General requirements	4
6.2 Marine Environmental Conditions	4
6.3 Conversion device parameters	5
6.4 Support platform parameters	5
6.5 Sea trial plan	5
6.6 Offshore test equipment	5
6.7 Sea trial process	5
6.8 Experimental data processing	5
6.9 Safety and security measures	5
7 Offshore test equipment	6
7.1 General requirements	6
7.2 Tidal current measuring instruments	6
7.3 Current measuring instruments	6
7.4 Voltage measuring instruments	6
7.5 Power measurement instruments	6
7.6 Power Quality Data Collector	6
7.7 Other measuring instruments	6
8 Sea trial process	7
8.1 General	7
8.1.1 Conventional sea trials	7

8.1.2 Specific sea trials	7
8.2 Data Collection	7
8.3 Conventional sea trials	7
8.3.1 Power characteristic index	7
8.3.2 Power quality indicators	10
8.4 Specific sea trials	11
8.4.1 Operation status indicators	11
8.4.2 Power quality indicators	11
8.4.3 Comprehensive performance indicators	11
8.4.4 Magnitude and direction of tidal currents	11
9 Sea trial data processing	11
9.1 Conventional sea trials	11
9.1.1 Database Screening	11
9.1.2 Power characteristic curve	12
9.1.3 Theoretical annual power generation	12
9.1.4 Power quality data	12
9.2 Specific sea trials	12
9.2.1 Operation status indicators	12
9.2.2 Power quality indicators	12
9.2.3 Comprehensive performance indicators	12
10 Test Report	12
10.1 General requirements	12
10.2 Report Contents	12
10.3 Annex 13 to the report	14
Appendix A (Informative) Sea trial report and main figures and tables format examples ..	14
A.1 Report Cover	14
A.2 Test indicators	14
A.3 Conversion device parameters	15
A.4 Support platform parameters	16
A.5 Power curve	16
A.6 Overall efficiency curve	17
A.7 Total harmonic distortion of current	18
A.8 Operation status indicators	19
A.9 Power quality indicators	20
A.10 Comprehensive performance indicators	20

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed and coordinated by the National Technical Committee for Standardization of Ocean Energy Conversion Equipment (SAC/TC546).

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Introduction

After years of continuous exploration and pursuit, China's tidal energy power generation technology has basically matured, and is actively promoting the industrialization of tidal energy power generation. layout.

This document is compiled to meet the needs of the industrial development of tidal energy power generation and to standardize and guide the offshore trials of tidal energy conversion devices.

The offshore test includes conventional tests and specific tests.

The tests and tests of performance indicators verify the technical performance and power generation capacity of the tidal energy conversion device under actual sea conditions, and provide It provides data guarantee for performance optimization and benefit estimation, and provides technical support for the industrial development of tidal energy power generation.

Technical requirements for offshore testing of tidal energy conversion devices

1 Scope

This document clarifies the overall requirements for the offshore test of tidal energy conversion devices, and stipulates the contents, test scale and The relevant technical requirements include test plan, test instruments, test process, data processing, etc.

This document applies to the offshore tests of horizontal and vertical axis tidal energy conversion devices, and the offshore tests of other types of tidal energy conversion devices. For reference only.

2 Normative references

GB 3097

GB/T 15768-1995

GB 18421

GB/T 20840.1-2010

GB/T 20840.2-2014

GB/T 20840.3-2013

GB/T 33442-2016

GB/T 41342-2022

IEC 60688

IEC 62008

3 Terms and definitions

The following terms and definitions apply to this document.