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

**GB/T 7358-2025**

Replacing GB/T 7358-1998

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**Electrical installations in ships - System design - General  
(English Translation)**

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## 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.

This document replaces GB/T 7358-1998 "General principles for design of marine electrical equipment systems". Compared with GB/T 7358-1998, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- Added the terms "electric rudder" and "steering gear power unit" (see 3.17 and 3.19);
- Added provisions on analysis and calculation (see 5.2);
- Added provisions on documents (see 5.3);
- Changed the provisions on power distribution system (see Chapter 6, Chapter 4 and Chapter 5 of Part III of the 1998 edition);
- Changed the provisions on the requirements for power distribution systems (see Chapter 6, Chapter 7 to Chapter 20 of Part V and Part VI of the 1998 edition Chapter 21~Chapter

25);

--- Added provisions on system grounding (see Chapter 7);

--- Changed the provisions on power supply (see Chapter 8, Chapter 6 of Part IV of the 1998 edition);

--- Deleted the provisions on cables (see Chapter 27 to Chapter 40 of Part VIII of the 1998 edition);

--- Added provisions on electric and electro-hydraulic steering gear (see 9.9).

This document is equivalent to IEC 60092-201:2019 "Marine electrical equipment Part.201.General principles for system design".

The following minimal editorial changes were made to this document.

--- In order to coordinate with the existing standards, the name of the standard is changed to "General Principles for Design of Marine Electrical Equipment Systems".

## 1 Scope

This document applies to the general requirements for the design of marine electrical equipment systems.

## 2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to this document.

**Note:** GB/T 6994-2006 Definitions and general provisions for marine electrical equipment (IEC 60092-101:2002, IDT) Part 202: Systemdesign-Protection) Note. GB/T 7357-2010 System design protection for electrical equipment in ships (IEC 60092-202:1994, MOD) Note. GB/T 21065-2007 Installation and completion tests of marine electrical installations (IEC 60092-401:1980, IDT) IEC 60364-1 Low-voltage electrical installations Part 1: Basic principles, general characteristics evaluation and definitions (Low-voltageelectri-Note. GB/T 16895.1-2008 Low voltage electrical installations Part 1: Basic principles, general characteristics evaluation and definitions (IEC 60364-1:2005, IDT) Note. GB/T 38329.1-2019 Port ship-shore connection Part 1: General requirements for high voltage shore connection (HVSC) system (IEC/IEEE80005-1. 2012, IDT)

GB/T 38329.2-2021 Port ship-shore connection Part 2: Data transmission for monitoring and control of high-voltage and low-voltage shore power connection systems

(IEC/IEEE80005-2.2016,IDT) GB/T 38329.3-2023 Port ship-shore connection Part 3:  
General requirements for low voltage shore connection (LVSC) system (IEC PAS80005-3.  
2014,MOD)  
lifeatsea,SOLAS)

### **3 Terms and definitions**

The following terms and definitions apply to this document.

#### **3.1 General**

##### **3.1.1**

deadship

All mechanical devices including the power supply are stopped, and the main propulsion device is put into operation by compressed air or starting batteries.

A state where auxiliary services for operation and restoration of main power supply are also unavailable.