



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

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**Small craft - Electrical/electronic control systems for steering,
shift and throttle**

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Foreword

This document was drafted in accordance with the rules provided in GB/T 1.1-2009.

This Standard uses the translation method to identically adopt ISO 25197.2012 Small Craft
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Electrical/electronic Control Systems for Steering, Shift and Throttle.

The following Chinese documents have a consistent correspondence with the international documents normatively referenced in this Standard.

---GB/T 10250-2007 Electrical and Electronic Installations in Ships - Electromagnetic Compatibility (IEC 60533.1999, IDT);

---GB/T 17726-1999 Small Craft - Electrical Devices - Protection against Ignition of Surrounding Flammable Gases (ISO 8846.1990, IDT);

---GB/T 17844-1999 Small Craft - Remote Steering Systems (ISO 8848.1990, IDT);

---GB/T 18814-2002 Small Craft - Electrical Systems - Alternating Current Installations (ISO 13297.2000, IDT);

---GB/T 18815-2013 Small Craft Engine-driven - Field of Vision from Helm Position (ISO 11591.2011, IDT);

---GB/T 19311-2003 Small Craft - electrical Systems - Extra-low-voltage d.c. Installations (ISO 10133.2000, IDT);

---GB/T 19318-2003 Small Craft - Hydraulic Steering Systems (ISO 10592.1994, IDT);

---GB/T 28046.2-2011 Road Vehicles - Environmental Conditions and Testing for Electrical and Electronic Equipment - Part 2.Electrical Loads (ISO 16750-2.2006, MOD);

---GB/T 28046.3-2011 Road Vehicles - Environmental Conditions and Testing for Electrical and Electronic Equipment - Part 3.Mechanical Loads (ISO 16750-3.2007, MOD);

---GB/T 28046.4-2011 Road Vehicles - Environmental Conditions and Testing for Electrical and Electronic Equipment - Part 4.Climatic Loads (ISO 16750-4.2006, MOD);

---GB/T 28560-2012 Electrical Installations in Ships - Small Vessels (IEC 60092-507.2008, IDT).

This document was proposed by and shall be under the jurisdiction of Technical Committee

241 on Small Craft of Standardization Administration of China (SAC/TC 241).

Small Craft - Electrical/electronic Control Systems for
Steering, Shift and Throttle

1 Scope

This Standard establishes the requirements for design, construction and testing of electrical/electronic steering, shift and throttle and dynamic position control systems, or combinations thereof, on small craft.

This Standard is applicable to small craft of up to 24 m length of hull.

2 Normative References

The following referenced documents are indispensable for the application of this document.
For

dated references, only the edition cited applies. For undated references, the latest edition of the

referenced document (including any amendments) applies.

ISO 8846 Small craft - Electrical devices - Protection against ignition of surrounding flammable

gases

ISO 8848 Small craft - Remote steering systems

ISO 10133 Small craft - Electrical systems - Extra-low-voltage d.c. installations

ISO 10240 Small craft - Owner's manual

ISO 10592 Small craft - Hydraulic steering systems

ISO 11591 Small craft, engine-driven - Field of vision from helm position

ISO 12215-8 Small craft - Hull construction and scantlings - Part 8.Rudders

ISO 13297 Small craft - Electrical systems - Alternating current installations

ISO 16750-2:2010 Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 2.Electrical loads

ISO 16750-3:2007 Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 3.Mechanical loads

ISO 16750-4 Road vehicles - Environmental conditions and testing for electrical and electronic

equipment - Part 4.Climatic loads

IEC 60068-2-27 Environmental testing - Part 2-27.Tests - Test Ea and guidance. Shock

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