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Small craft - Electrical devices - Protection against ignition of surrounding flammable gases (ISO 8846:2025)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 04/26

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Oznámením tejto normy sa ruší
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EUROPEAN STANDARD

EN ISO 8846

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2026

ICS 47.080

Supersedes EN ISO 8846:2017

English Version

Small craft - Electrical devices - Protection against ignition of surrounding flammable gases (ISO 8846:2025)

Petits navires - Appareils électriques - Protection
contre l'inflammation des gaz inflammables
environnants (ISO 8846:2025)

Kleine Wasserfahrzeuge - Elektrische Geräte -
Zündschutz gegenüber entflammabaren Gasen (ISO
8846:2025)

This European Standard was approved by CEN on 28 August 2025.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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EN ISO 8846:2026 (E)

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European foreword

This document (EN ISO 8846:2026) has been prepared by Technical Committee ISO/TC 188 "Small craft" in collaboration with Technical Committee CEN/TC 464 "Small Craft" the secretariat of which is held by SIS.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by August 2026, and conflicting national standards shall be withdrawn at the latest by August 2026.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 8846:2017.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Endorsement notice

The text of ISO 8846:2025 has been approved by CEN as EN ISO 8846:2026 without any modification.

EN ISO 8846:2026 (E)**Annex ZA**
(informative)**Relationship between this European Standard and the essential requirements of Directive 2013/53/EU aimed to be covered**

This European Standard has been prepared under a Commission's standardization request M/542/C(2015) 8736 final to provide one voluntary means of conforming to essential requirements of Directive 2013/53/EU.

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in [Table ZA.1](#) confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Directive and associated EFTA regulations.

Table ZA.1 — Correspondence between this European Standard and Directive 2013/53/EU

Essential Requirements of Directive 2013/53/EU	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
I.A.5.1.1 – Inboard engine (para. 1)	Clauses 4, 5, 6, 7,8	
I.A.5.2.2(a) - Fuel tanks	Clauses 4, 5, 6, 7, 8	In respect of protection from electrical devices as sources of ignition which are located in petrol fuel tank compartments.
I.A.5.3 – Electrical system, (para. 1)	Clauses 4, 5, 6, 7, 8	This Standard does not cover ignition protection for electrical devices that may operate in hydrogen and oxygen mixtures produced by vented batteries gases escaping into the surrounding atmosphere.
I.A.5.5 – Gas system (para. 1)	Clauses 4, 5, 6, 7, 8	In respect of protection from electrical devices as sources of ignition which are located in LPG cylinder enclosures.

WARNING 1 — Presumption of conformity stays valid only as long as a reference to this European Standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

WARNING 2 — Other Union legislation may be applicable to the product(s) falling within the scope of this standard.



International Standard

ISO 8846

Small craft — Electrical devices — Protection against ignition of surrounding flammable gases

*Petits navires — Appareils électriques — Protection contre
l'inflammation des gaz inflammables environnants*

**Second edition
2025-12**

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ISO 8846:2025(en)**Foreword**

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 188, *Small craft*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 464, *Small Craft*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 8846:1990), which has been technically revised.

The main changes are as follows:

- the Scope has been updated for clarity;
- the definitions have been updated in [Clause 3](#);
- throughout the text, requirements have been updated to meet the state of the art;
- the former 6.4.3 on intrinsically safe devices has been removed;
- [7.5.3](#) for alternators has been added;
- [Clause 8](#) on marking has been updated.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Small craft — Electrical devices — Protection against ignition of surrounding flammable gases

1 Scope

This document specifies test methods and requirements for the design of electrical devices, when under normal operating conditions, on small craft so that they can be operated without igniting a surrounding flammable gas atmosphere.

This document does not apply to ignition protection procedures for:

- devices or components that can operate in hydrogen and air mixtures;
- devices with dysfunctional issues;
- mechanisms of ignition from external sources, such as static electricity, lightning or other factors not related to the equipment under test.

2 Normative references

There are no normative references in this document.

koniec náhľadu – text ďalej pokračuje v platenej verzii STN