



**International  
Standard**

**ISO 8528-4**

**Reciprocating internal combustion  
engine driven alternating current  
generating sets —**

**Part 4:  
Controlgear and switchgear**

*Groupes électrogènes à courant alternatif entraînés par moteurs  
alternatifs à combustion interne —*

*Partie 4: Appareillage de commande et de coupure*

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## 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](http://www.iso.org/directives)).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at [www.iso.org/patents](http://www.iso.org/patents). ISO shall not be held responsible for identifying any or all such patent rights.

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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](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 70, *Internal combustion engines*.

This third edition cancels and replaces the second edition (ISO 8528-4:2005), which has been technically revised.

The main changes are as follows:

- [Clauses 3, 6 and 7](#) and [Annex A](#) have been revised.

A list of all parts in the ISO 8528 series can be found on the ISO website.

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](http://www.iso.org/members.html).



# Reciprocating internal combustion engine driven alternating current generating sets —

## Part 4: Controlgear and switchgear

### 1 Scope

This document specifies the criteria for controlgear and switchgear for generating sets with reciprocating internal combustion engines.

This document applies to alternating current (a.c.) generating sets driven by reciprocating internal combustion (RIC) engines for land and marine use excluding generating sets used on aircraft or to propel land vehicles and locomotives.

For some specific applications (e.g. essential hospital supplies and high-rise buildings), supplementary requirements can be necessary. The provisions of this document serve as a basis for establishing any supplementary requirements.

For generating sets driven by other prime movers (e.g. steam engines), this document serves as a basis for establishing requirements.

### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 6826, *Reciprocating internal combustion engines — Fire protection*

ISO 8528-5:2025, *Reciprocating internal combustion engine driven alternating current generating sets — Part 5: Generating sets*

IEC 62271-200, *High-voltage switchgear and controlgear - Part 200 : A.C. metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV*

IEC 61439-1, *Low-voltage switchgear and controlgear assemblies -Part 1: General rules*

IEC 61850-3, *Communication networks and systems for power utility automation -Part 3: General requirements*

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>