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

**Part 12:  
Emergency power supply to safety services**

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

*Partie 12: Alimentation électrique de secours des services de sécurité*



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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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 8528-12 was prepared by Technical Committee ISO/TC 70, *Internal combustion engines*.

International Standard ISO 8528 consists of the following parts, under the general title *Reciprocating internal combustion engine driven alternating current generating sets*:

- *Part 1: Application, ratings and performance*
- *Part 2: Engines*
- *Part 3: Alternating current generators for generating sets*
- *Part 4: Controlgear and switchgear*
- *Part 5: Generating sets*
- *Part 6: Test methods*
- *Part 7: Technical declarations for specification and design*
- *Part 8: Requirements and tests for low-power generating sets*
- *Part 9: Measurement and evaluation of mechanical vibrations*
- *Part 10: Measurement of airborne noise by the enveloping surface method*
- *Part 11: Dynamic uninterruptible power supply systems*
- *Part 12: Emergency power supply to safety services*

Annex A of this part of ISO 8528 is for information only.

# Reciprocating internal combustion engine driven alternating current generating sets —

## Part 12: Emergency power supply to safety services

### 1 Scope

This part of ISO 8528 applies to generating sets driven by reciprocating internal-combustion (RIC) engines for emergency power supply to safety services.

It applies, for example, to safety equipments in hospitals, high-rise buildings, public gathering places etc. This part of ISO 8528 establishes the special requirements for the performance, design and maintenance of power generators used in the applications referred to above and taking into account the provisions of ISO 8528-1 to ISO 8528-6 and ISO 8528-10.

### 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 8528. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 8528 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 8528-1:1993, *Reciprocating internal combustion engine driven alternating current generating sets — Part 1: Application, ratings and performance.*

ISO 8528-2:1993, *Reciprocating internal combustion engine driven alternating current generating sets — Part 2: Engines.*

ISO 8528-3:1993 *Reciprocating internal combustion engine driven alternating current generating sets — Part 3: Alternating current generators for generating sets.*

ISO 8528-4:1993 *Reciprocating internal combustion engine driven alternating current generating sets — Part 4: Controlgear and switchgear.*

ISO 8528-5:1993, *Reciprocating internal combustion engine driven alternating current generating sets — Part 5: Generating sets.*

ISO 8528-6:1993, *Reciprocating internal combustion engine driven alternating current generating sets — Part 6: Test methods.*

IEC 34-1:1996, *Rotating electrical machines — Part 1: Rating and performance.*

IEC 285:1993, *Alkaline secondary cells and batteries — Sealed nickel-cadmium cylindrical rechargeable single cells.*

IEC 364-5-56:1980, *Electrical installations of buildings — Part 5: Selection and erection of electrical equipment — Chapter 56: Safety services.*

IEC 364-7-710:—<sup>1)</sup>, *Electrical installations of buildings — Part 7: Requirements for special installations or locations — Section 710: Medical locations.*

IEC 601-1:1988, *Medical electrical equipment — Part 1: General requirements for safety.*

IEC 622:1988, *Sealed nickel-cadmium prismatic rechargeable single cells.*

IEC 623:1990, *Vented nickel-cadmium prismatic rechargeable single cells.*

IEC 896-1:1987, *Stationary lead-acid batteries — General requirements and methods of test — Part 1: Vented types.*

IEC 896-2:1995, *Stationary lead-acid batteries — General requirements and methods of test — Part 2: Valve-regulated types.*

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1) To be published.