



National Standards Authority of Ireland

STANDARD

**I.S. EN 88528-11:2004**

ICS 29.160

**RECIPROCATING INTERNAL COMBUSTION  
ENGINE DRIVEN ALTERNATING CURRENT  
GENERATING SETS PART 11: ROTARY  
UNINTERRUPTIBLE POWER SYSTEMS -  
PERFORMANCE REQUIREMENTS AND TEST  
METHODS (IEC 88528-11:2004)**

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EUROPEAN STANDARD

**EN 88528-11**

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2004

ICS 29.160

English version

**Reciprocating internal combustion engine driven  
alternating current generating sets  
Part 11: Rotary uninterruptible power systems -  
Performance requirements and test methods  
(IEC 88528-11:2004)**

Groupes électrogènes à courant alternatif  
entraînés par moteurs alternatifs  
à combustion interne  
Partie 11: Alimentations sans interruption  
à accumulation d'énergie cinétique -  
Prescriptions de performances  
et méthodes d'essai  
(CEI 88528-11:2004)

Stromerzeugungsaggregate  
mit Hubkolben-Verbrennungsmotoren  
Teil 11: Dynamische, unterbrechungsfreie  
Stromversorgung -  
Leistungsanforderungen  
und Prüfverfahren  
(IEC 88528-11:2004)

This European Standard was approved by CENELEC on 2004-04-01. CENELEC 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 Central Secretariat or to any CENELEC 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 CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

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**CENELEC**

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

## Foreword

The text of document 2/1275/FDIS, future edition 1 of IEC 88528-11, prepared by IEC TC 2, Rotating machinery and ISO TC 70, Internal combustion engines, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 88528-11 on 2004-04-01.

The following dates were fixed:

- latest date by which the EN has to be implemented  
at national level by publication of an identical  
national standard or by endorsement (dop) 2005-01-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2007-04-01

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 88528-11:2004 was approved by CENELEC as a European Standard without any modification.

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## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

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.

NOTE Where an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60034-1	- <sup>1)</sup>	Rotating electrical machines Part 1: Rating and performance	-	-
IEC 60034-22	1996	Part 22: AC generators for reciprocating internal combustion (RIC) engine driven generating sets	EN 60034-22	1997
IEC 60417 database	-	Graphical symbols for use on equipment	-	-
IEC 60529	1989	Degrees of protection provided by enclosures (IP Code)	EN 60529 + corr. May	1991 1993
IEC 61000	Series	Electromagnetic compatibility (EMC)	EN 61000	Series
ISO 3046-1	2002	Reciprocating internal combustion engines - Performance Part 1: Declarations of power, fuel and lubricating oil consumptions, and test methods - Additional requirements for engines for general use	-	-
ISO 7000	- <sup>2)</sup>	Graphical symbols for use on equipment - Index and synopsis	-	-
ISO 8178-1	- <sup>2)</sup>	Reciprocating internal combustion engines - Exhaust emission measurement Part 1: Test-bed measurement of gaseous and particulate exhaust emissions	EN ISO 8178-1	1996 <sup>3)</sup>
ISO 8528-1	- <sup>2)</sup>	Reciprocating internal combustion engine driven alternating current generating sets Part 1: Application, ratings and performance	-	-
ISO 8528-6	- <sup>2)</sup>	Part 6: Test methods	-	-

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<sup>1)</sup> To be published.

<sup>2)</sup> Undated reference.

<sup>3)</sup> Valid edition at date of issue.

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO 8528-9	- <sup>2)</sup>	Part 9: Measurement and evaluation of mechanical vibrations	-	-
ISO 8528-10	- <sup>2)</sup>	Part 10: Measurement of airborne noise by the enveloping surface method	-	-

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