



National Standards Authority of Ireland  
Údarás um Chaighdeáin Náisiúnta na hÉireann

IRISH STANDARD

**I.S. EN 62429:2008**

ICS 03.120.01  
03.120.99

**RELIABILITY GROWTH - STRESS TESTING  
FOR EARLY FAILURES IN UNIQUE  
COMPLEX SYSTEMS (IEC 62429:2007  
(EQV))**

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**I.S. EN 62429:2008**

**EUROPEAN STANDARD**

**EN 62429**

**NORME EUROPÉENNE**

**EUROPÄISCHE NORM**

April 2008

ICS 03.120.01; 03.120.99

English version

**Reliability growth -  
Stress testing for early failures in unique complex systems  
(IEC 62429:2007)**

Croissance de fiabilité -  
Essais de contraintes pour révéler  
les défaillances précoces  
d'un système complexe et unique  
(CEI 62429:2007)

Zuverlässigkeitswachstum -  
Beanspruchungsprüfung auf Frühausfälle  
in einzelnen komplexen Systemen  
(IEC 62429:2007)

This European Standard was approved by CENELEC on 2008-03-01. 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

**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**

## I.S. EN 62429:2008

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### Foreword

The text of document 56/1232/FDIS, future edition 1 of IEC 62429, prepared by IEC TC 56, Dependability, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62429 on 2008-03-01.

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) 2008-12-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2011-03-01

Annex ZA has been added by CENELEC.

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### Endorsement notice

The text of the International Standard IEC 62429:2007 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60300-1	NOTE Harmonized as EN 60300-1:2003 (not modified).
IEC 60300-2	NOTE Harmonized as EN 60300-2:2004 (not modified).
IEC 60300-3-1	NOTE Harmonized as EN 60300-3-1:2004 (not modified).
IEC 60706-5	NOTE Harmonized as EN 60706-5:2007 (not modified).
IEC 60812	NOTE Harmonized as EN 60812:2006 (not modified).
IEC 61014	NOTE Harmonized as EN 61014:2003 (not modified).
IEC 61025	NOTE Harmonized as EN 61025:2007 (not modified).
IEC 61078	NOTE Harmonized as EN 61078:2006 (not modified).
IEC 61160	NOTE Harmonized as EN 61160:2005 (not modified).
ISO 9000	NOTE Harmonized as EN ISO 9000:2005 (not modified).

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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 When 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 60050-191	1990	International Electrotechnical Vocabulary (IEV) - Chapter 191: Dependability and quality of service	-	-
IEC 60300-3-5	- <sup>1)</sup>	Dependability management - Part 3-5: Application guide - Reliability test conditions and statistical test principles	-	-
IEC 60605-2	- <sup>1)</sup>	Equipment reliability testing - Part 2: Design of test cycles	-	-
IEC 61163-1	2006	Reliability stress screening - Part 1: Repairable assemblies manufactured in lots	EN 61163-1	2006
IEC 61163-2	- <sup>1)</sup>	Reliability stress screening - Part 2: Electronic components	-	-
IEC 61164	- <sup>1)</sup>	Reliability growth - Statistical test and estimation methods	EN 61164	2004 <sup>2)</sup>
IEC 61710	- <sup>1)</sup>	Power law model - Goodness-of-fit tests and estimation methods	-	-

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<sup>1)</sup> Undated reference.

<sup>2)</sup> Valid edition at date of issue.



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