



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 62301:2005**

ICS 17.220.20  
97.030

## **HOUSEHOLD ELECTRICAL APPLIANCES - MEASUREMENT OF STANDBY POWER**

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*This Irish Standard was  
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Standards Authority of  
Ireland and comes into  
effect on:*

*December 22, 2005*

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EUROPEAN STANDARD

**EN 62301**

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2005

ICS 17.220.20; 97.030

English version

**Household electrical appliances –  
Measurement of standby power  
(IEC 62301:2005, modified)**

Appareils électrodomestiques –  
Mesure de l'alimentation générale  
(CEI 62301:2005, modifiée)

Elektrische Geräte für den Hausgebrauch –  
Messung der Stand-by-Leistungsaufnahme  
(IEC 62301:2005, modifiziert)

This European Standard was approved by CENELEC on 2005-07-01. 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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and 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**

## Foreword

The text of document 59/409A/FDIS, future edition 1 of IEC 62301, prepared by IEC TC 59, Performance of household electrical appliances, was submitted to the IEC-CENELEC parallel vote.

This text, together with a draft amendment, prepared by the Technical Committee CENELEC TC 59X, Consumer information related to household electrical appliances, and submitted to the formal vote, was approved by CENELEC as EN 62301 on 2005-07-01.

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) 2006-06-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2008-07-01

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 62301:2005 was approved by CENELEC as a European Standard with agreed common modifications as given below.

### COMMON MODIFICATIONS

#### Introduction

*Add:*

The document is written as a specific measurement procedure and shall not normally be used on its own but as a referenced standard in a product performance standard. Thus where a product requires data on standby power, it shall be made by incorporation of a new clause in the product performance standard which makes reference to this standard and defines within that clause set-up data and control procedures.

However since it will no doubt be used as a generic measurement method for appliances that have no performance standard or are “new” appliances, further modifications to EN 62301 will likely be needed in the future.

The aim of the common modifications to the text of IEC 62301:2005 is to ensure the European Standard complies with the EU requirements for energy labelling.

#### 4.3 Power supply

*Replace the second paragraph by:*

Where the test voltage and frequency are not defined by an external standard, the test voltage and test frequency shall be:

- 230 V  $\pm$  1 %
- 50 Hz  $\pm$  1 %

If the appliances are to be connected to three phases and the test voltage and frequency are not defined by an external standard the test voltage and test frequency shall be:

- 400 V  $\pm$  1 %
- 50 Hz  $\pm$  1 %

*Delete Table 1.*

*Add the following new clause:*

#### Z1 Tolerances and control procedures

Where tolerances and control procedures are not defined by an external standard, the tolerances and control procedures shall be according to the following.

##### Z1.1 For power consumption greater than 1 W

The standby power determined according to this standard on the first appliance shall not be greater than the value declared by the manufacturer plus 15 %.

If the result of the test carried out on the first appliances is greater than the value declared plus 15 %, the test for standby power shall be carried out on a further three appliances, which shall be randomly selected from the market.

The arithmetic mean of the values of these three appliances for the standby power shall not be greater than the declared value plus 10 %.

## Z1.2 For power consumption less or equal to 1 W

The standby power measured according to Clause 4 shall not be greater than the value declared by the manufacturer plus 0,15 W.

If the result of the test carried out on the first appliance is greater than the declared value plus 0,15 W, the test shall be carried out on a further three appliances, which shall be randomly selected from the market.

The arithmetic mean of the values of these three appliances shall not be greater than the declared value plus 0,1 W.

## Bibliography

*Add:*

EN 50242, *Electric dishwashers for household use - Test methods for measuring the performance*

EN 50304, *Electric ovens for household use - Methods for measuring the energy consumption*

*Delete* IEC 60436.

*Add the following notes for the standards indicated:*

IEC 60299	NOTE Harmonized as EN 60299 (not modified).
IEC 60311	NOTE Harmonized as EN 60311 (not modified).
IEC 60350	NOTE Harmonized as EN 60350 (not modified).
IEC 60379	NOTE Harmonized as EN 60379:2004 (modified).
IEC 60442	NOTE Harmonized as EN 60442 (not modified).
IEC 60456	NOTE Harmonized as EN 60456:2005 (modified).
IEC 60531	NOTE Harmonized as EN 60531:2000 (modified).
IEC 60619	NOTE Harmonized as EN 60619 (not modified).
IEC 60661	NOTE Harmonized as EN 60661 (not modified).
IEC 60675	NOTE Harmonized as EN 60675 (not modified).
IEC 60705	NOTE Harmonized as EN 60705 (not modified).
IEC 60879	NOTE Harmonized as EN 60879 (not modified).
IEC 61121	NOTE Harmonized as EN 61121:2005 (modified).
IEC 61176	NOTE Harmonized as EN 61176 (not modified).
IEC 61254	NOTE Harmonized as EN 61254 (not modified).
IEC 61591	NOTE Harmonized as EN 61591 (not modified).
IEC 62087	NOTE Harmonized as EN 62087 (not modified).

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