



# LightingEurope

## EU Compliant Requirements

### Products Sheets for LAMPS

1<sup>st</sup> Edition

29<sup>th</sup> November 2013

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## **a. Disclaimer**

This information is for general guidance on matters of interest only. While every attempt to ensure that the information has been obtained from reliable sources has been made, LightingEurope is not responsible for any errors or omissions or for the results obtained from the use of this information. All information is provided with no guarantee of completeness, accuracy, timeliness or of the results obtained from the use of this information, and without warranty of any kind, express or implied, including, but not limited to warranties of performance, merchantability and fitness for a particular purpose. In no event will LightingEurope, its related partnerships or corporations, or the partners, agents or employees thereof be liable to you or anyone else for any decision made or action taken in reliance on the information or for any consequential, special or similar damages, even if advised of the possibility of such damages.

The pictures displayed in this Guidance document are kindly provided by the members of LightingEurope.

## **b. Introduction**

The European Association LightingEurope representing the interests of the lighting industry in Europe has developed summary check lists and detailed EU Compliant Requirements Products Sheets for its major lighting products' groups to support the Market Surveillance and Customs Authorities in the various EU Member States to identify compliance and/or non-compliance of the major lighting products' groups with the applicable EU legislation requirements.

These summary check lists and detailed EU Compliant Requirements Products Sheets for lighting products provide economic operators with a simple and immediate way to:

- Identify the product
- Identify the applicable legislation
- Check the label of the product and its markings
- Identify what kind of visual check may easily be done

This document contains summary check lists and detailed EU Compliant Requirements Products Sheets for the following types of LAMPS:

1. LED retrofit lamps (mains voltage)
2. Self-ballasted non-directional lamps for general lighting services
3. Non-directional halogen lamps (mains voltage)
4. Non-directional incandescent lamps (mains voltage)

### c. Summary check lists for lamps

#### 1. Summary check lists for LED retrofit non-directional lamps, self-ballasted non-directional lamps for general lighting, and non directional halogen lamps

Combined nomenclature (CN) Codes:

8539 or 8541: LED retrofit non-directional lamps (single capped) (LED)

8539 31: Self-ballasted non-directional lamps for general lighting (CFLi)

8539 21: Non-directional halogen lamps (HAL)

Requirements only apply if declared voltage >100v

Name of the product.....



**If any of the grey boxes (NO) has been ticked, there is a need to contact relevant market surveillance authority.**

FORMAL REQUIREMENTS						
The conformity marking CE						
		YES	NO			
1.	Is there the CE marking?					
2.	Is there the CE marking affixed visibly, legibly and indelibly: <ul style="list-style-type: none"> <li>– on the product itself <b>or</b></li> <li>– on the packaging?</li> </ul>					
	Applicability of the requirement	HAL	CFLi	LED		
Basic information and warnings						
Marking on the products						
3.	Is there the identification of the entity placing the product on the market? (producer's name or his trade mark, <b>or</b> authorised representative's <b>or</b> importer's identification)					

4.	Is there the rated voltage and wattage?					
5.	Is there the rated frequency?					
6.	Is there the crossed wheeled bin (WEEE directive)? (Only for 8539 31 and 8541 40)					
<b>Marking required either on the product or on the packaging</b>						
7.	Is there Energy labelling of household lamp (directive 98/11/CE) with the letter on the correct place?					
8.	Is there total luminous flux (in lumens)					
9.	Is there nominal life time of the lamp in hours?					
10.	Is there number of switching cycles before premature lamp failure?					
11.	Is there colour temperature (expressed as a value in Kelvin)					
12.	Is there warm-up time up to 60 % of the full light output (may be indicated as 'instant full light' if less than 1 s.)					
13.	Is there a warning if the lamp cannot be dimmed or can be dimmed only on specific dimmers					
14.	Are there the Lamp dimensions in millimeters (length and diameter)?					
15.	Is there lamp mercury content?(only for 8539 31)					
16.	Is there Indication on which website to consult in case of accidental lamp breakage to find instructions on how to clean up the lamp debris?					
<b>Other element to be checked</b>						

17.	<p>Is the lamp with the energy efficiency index allowed to be put on the market according to regulation 244/2009?</p> <ul style="list-style-type: none"> <li>- Only class A is allowed for non clear lamps (or class B in case of lamp with second envelope) – all types.</li> <li>- Classes C &amp; D are allowed for clear HAL lamp until 1 sept. 2016. After that date all lamp shall be class B with the exception of R7s and G9 which can be class C</li> <li>- Only class A are allowed for CFLi (or class B in case of lamp with second envelope)</li> <li>- Only class A are allowed for LED lamp (or class B in case of lamp with second envelope)</li> </ul>	✓	✓	✓		
18.	<p>Is the lamp with the energy efficiency index allowed to be put on the market according to regulation 244/2009?</p> <ul style="list-style-type: none"> <li>- Only class A is allowed for non clear lamps (or class B in case of lamp with second envelope) – all types.</li> <li>- Classes C &amp; D are allowed for clear HAL lamp until 1 September 2016. After that date all lamp shall be class B with the exception of R7s and G9 which can be class C</li> <li>- Only class A are allowed for CFLi (or class B in case of lamp with second envelope)</li> <li>- Only class A are allowed for LED lamp (or class B in case of lamp with second envelope)</li> </ul>	✓	✓	✓		
19.	<p>Is the equivalence with an incandescent lamp is claimed on the packaging in a correct way?</p> <p>The claimed equivalent incandescent lamp power (rounded to 1 W) shall be that corresponding in Table 1 to the luminous flux of the lamp contained in the packaging.</p>	✓	✓	✓		

20.	Is the term 'energy saving lamp', or any similar product related promotional statement about lamp efficacy, used in an appropriate way?  Only if the lamp complies with the efficacy requirements applicable to non-clear lamps class A (or class B in case of non clear lamp with second envelope).	✓	✓	✓		
21.	Is the nominal luminous flux of the lamp displayed in a font at least twice as large as the nominal lamp power?  This is requires only when the nominal lamp power is displayed outside the energy label in accordance with Directive 98/11/EC	✓	✓	✓		

Contact details of the competent market surveillance authority

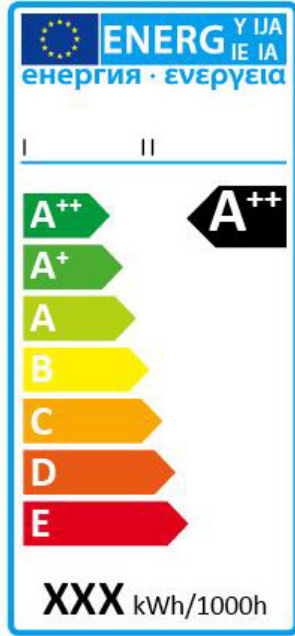
.....  
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**Table 1**

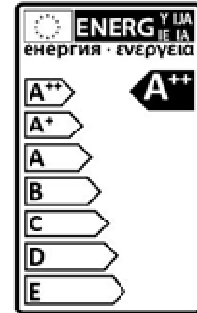
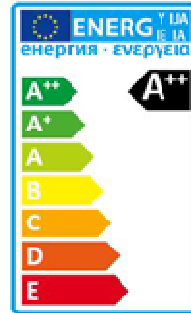
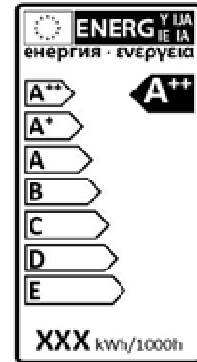
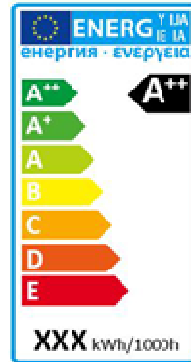
Rated lamp luminous flux ø [lm]			Claimed equivalent incandescent lamp power [W]
CFL	Halogen	LED and other lamps	
125	119	136	15
229	217	249	25
432	410	470	40
741	702	806	60
970	920	1 055	75
1 398	1 326	1 521	100
2 253	2 137	2 452	150
3 172	3 009	3 452	200

## Energy labelling

Full  
labelling



If the label is printed on the packaging and the necessary information is included elsewhere on the packaging, that information may be omitted from the label





**2. Summary check list for non directional incandescent lamps**

Combined nomenclature (CN) Code:

**CN Code : xxxxx:            Non directional incandescent lamp (mains voltage)**

**Name of the product.....**



**If any of the grey boxes (NO) has been ticked, there is a need to contact relevant market surveillance authority.**

<b>FORMAL REQUIREMENTS</b>			
<b>The conformity marking CE</b>			
		<b>YES</b>	<b>NO</b>
1.	Is there the CE marking?		
2.	Is there the CE marking affixed visibly, legibly and indelibly: <ul style="list-style-type: none"> <li>– on the product itself <b>or</b></li> <li>– on the packaging?</li> </ul>		
	Applicability of the requirement		
<b>ECODESIGN REQUIREMENTS</b>			
<i>In accordance with the 2009/125/EC Directive and with Regulation (EC)244/2009, from 01-09-2012 lamps with this technology can no longer be placed on the market with the exception indicated under box 3</i>			

3.	<p><i>Is the lamp listed under exceptions here below (at least one)?</i></p> <ul style="list-style-type: none"> <li>- <i>Lamp with non-white light</i></li> <li>- <i>Lamp with flux &lt; 60lm or &gt;12000lm</i></li> <li>- <i>Lamp with lamp cap E14/E27/B22/B15 with nominal voltage &lt;60V</i></li> <li>- <i>Lamp for special use, provided with product information on the packaging indicating:</i> <ul style="list-style-type: none"> <li>• <i>their intended purpose</i></li> <li>• <i>that they are not suitable for household room illumination</i></li> </ul> </li> </ul>		
<p><b>Basic information and warnings</b></p> <p><b><i>Marking on the products</i></b></p>			
4.	<p>Is there the identification of the entity placing the product on the market? (producer's name or his trade mark, <b><u>or</u></b> authorised representative's <b><u>or</u></b> importer's identification)</p>		
5.	<p>Is there the rated voltage and wattage?</p>		

Contact details of the competent market surveillance authority

.....  
 .....

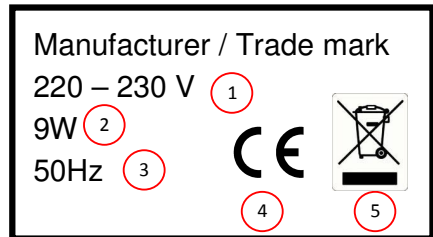
## d. Detailed EU compliant requirements products sheets for lamps

### 1. Detailed EU compliant requirements products sheet for LED retrofit lamps (mains voltage)



#### 1.1 Minimum information to be marked on the product

- Mark of origin (trade mark, manufacturer's name or name of the responsible vendor/supplier).
- Rated voltage (V): 220V... 230V (\*) (1)
- Rated Wattage (W): 9W (\*) (2)
- Rated Frequency (Hz): 50 Hz (3)
- CE marking (4)
- Crossed out wheeled bin (WEEE Directive) (5)



Example of marking

(\*) Indicative data

(\*\*) According to EN 50419 the rectangle below the crossed out wheeled bin is not required in case the manufacturer indicates the date of manufacture/put on the market.

#### 1.2 Marking required either on the product or on the packaging

- Lamp current.
- The following information according to WEEE directive given either on the product, on instruction leaflet or on the packing:
  - The requirement not to dispose of WEEE as unsorted municipal waste and to collect such WEEE separately
  - The return and collection systems available to them encouraging the coordination of information on the available collection points irrespective of the producers or other operators which have set them up
  - Their role in contributing to reuse, recycling and other forms of recovery of WEEE
  - The potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment
  - The meaning of the crossed out wheeled bin symbol (see marking)

### 1.3 Information to be visibly displayed prior to purchase to end-users on the packaging and on free access websites

The following information is required for lamps having luminous output >60lm (EC Regulation 244/2009):

- When the nominal lamp power is displayed outside the energy label in accordance with Directive 98/11/EC, the nominal luminous flux of the lamp shall also be separately displayed in a font at least twice as large as the nominal lamp power display outside the label
- Nominal life time of the lamp in hours
- Number of switching cycles before premature lamp failure
- Colour temperature (also expressed as a value in Kelvins)
- Warm-up time up to 60% of the full light output (may be indicated as 'instant full light' if less than 1 second)
- A warning if the lamp cannot be dimmed or can be dimmed only on specific dimmers
- If designed for optimal use in non-standard conditions (such as ambient temperature  $T_a \neq 25$  °C), information on those conditions
- Lamp dimensions in millimeters (length and diameter)
- If equivalence with an incandescent lamp is claimed on the packaging, the claimed equivalent incandescent lamp power (rounded to 1 W) shall be that corresponding in Table 6 (see annex) to the luminous flux of the lamp contained in the packaging
- The term 'energy saving lamp' or any similar product related promotional statement about lamp efficacy may only be used if the lamp complies with the efficacy requirements applicable to non-clear lamps in Stage 1 of Regulation (EC) n°244/2009 and modifications

### 1.4 Main aspects to be verified

- **Visual inspection (see photographic Annex):**
  - Identification data (see clause 1)
  - Checking of information as required in clauses 2 and 3
  - Checking that the term "energy saving lamp" or similar statement is not used on products which do not comply with the efficacy requirements applicable to non-clear lamps in Stage 1 of Regulation (EC) n. 244/2009 and modifications (Energy class A or B for certain lamp with double envelope)
- **Inspection of documentation:**
  - Inspection of Declaration of Conformity (D.o.C). The D.o.C. shall contain all the reference to applicable legislation and applicable standards (see Applicable and Standards section (clauses 5 and 6)
- **Verification of importer/Producer registration for WEEE:**
  - The importer, placing luminaires on the national market, shall be already registered to the National Register of WEEE Producers. A registration number should have been released and it can be verified on National WEEE Register websites.

## 1.5 Applicable legislation

List of applicable legislations and standards to be indicated in the Declaration of Conformity and Technical File:

Directive/Regulation	Directive Number	Declaration of Conformity	Technical File
LVD - LOW VOLTAGE DIRECTIVE (1)	2006/95/EC	YES	YES
EMC - ELECTROMAGNETIC COMPATIBILITY	2004/108/EC	YES	YES
WEEE - WASTE FROM ELECTRIC AND ELECTRONIC EQUIPMENT	2012/19/UE (replaces 2002/96/EC)	NO	NO
RoHS - RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES	2011/65/EU (replaces 2002/95/EC)	YES	YES
ECODESIGN	Directive 2009/125/EC		
	Regulation 244/2009 + 859/2009 (2)	YES	YES
	Regulation (EU) 1194/2012 (3)	YES	YES
ENERGY LABELLING OF HOUSEHOLD LAMPS	Directive 2010/30/EC		
	Regulation 874/2012 (4)	NO	YES
GENERAL PRODUCT SAFETY	2001/95/CE	NO	NO

(1) Low Voltage Directive is applicable to product designed for use with a voltage rating of between 50 and 1000V a.c. and 75 and 1500V d.c.

(2) Applicable to non-directional household lamps.

(3) From 01/09/2013 applicable to directional and non-directional lamps.

(4) 98/11/CE directive is in force till 31/08/2013. Starting from 01/09/2013 the energy labeling should be in conformity with Regulation 874/2012

## 1.6 Applicable standards

Standards listed in the table below have to be all indicated in the Declaration of Conformity (legislation allows to indicate measures adopted to respect essential requirements as alternative to harmonized standards. This option is rarely used). The reference year of listed standards have to be indicated.

<b>LOW VOLTAGE</b>	EN 62560 (year) <sup>(*)</sup> EN 62493 (year)
<b>ELECTROMAGNETIC COMPATIBILITY</b>	EN 55015:(year) EN 61000-3-2:(year) EN 61000-3-3:(year) EN 61547:(year)

*(\*) It will enter into force definitively on 15/10/2015*

## ANNEX

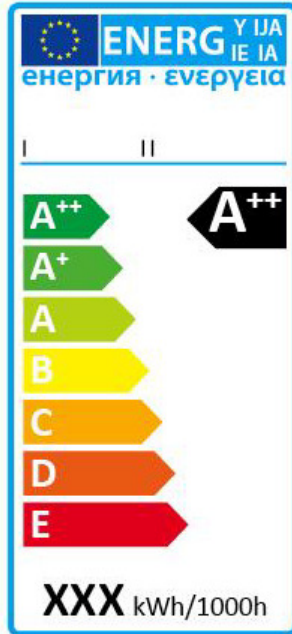
### Visual inspections

**Table 6**

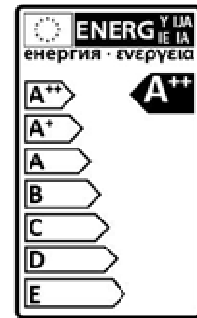
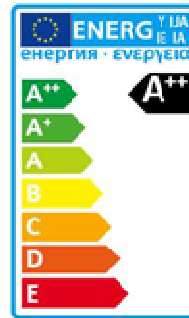
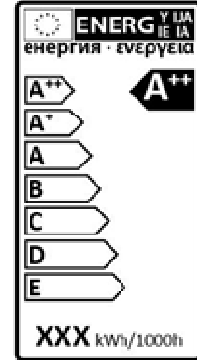
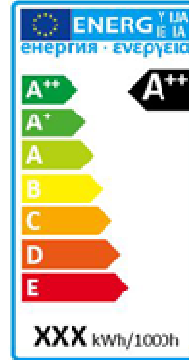
Rated lamp luminous flux ø [lm]			Claimed equivalent incandescent lamp power
CFL	Halogen	LED and other lamps	[W]
125	119	136	15
229	217	249	25
432	410	470	40
741	702	806	60
970	920	1 055	75
1 398	1 326	1 521	100
2 253	2 137	2 452	150
3 172	3 009	3 452	200

Energy label starting from 01/09/2013

Full  
labelling



If the label is printed on the packaging and the necessary information is included elsewhere on the packaging, that information may be omitted from the label

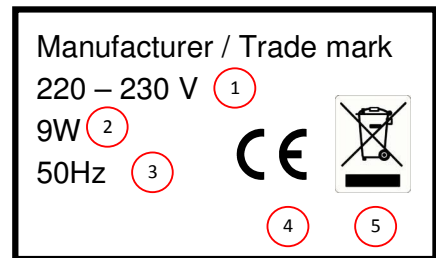


## 2. Detailed EU compliant requirements products sheet for self-ballasted non-directional lamps for general lighting services



### 2.1 Minimum information to be marked on the product

- Mark of origin (trade mark, manufacturer's name or name of the responsible vendor/supplier).
- Rated voltage (V): 220V... 230V (\*) (1)
- Rated Wattage (W):9W (\*) (2)
- Rated Frequency (Hz): 50 Hz (3)
- CE marking (4)
- Crossed out wheeled bin (WEEE Directive) (5)



Example of marking

(\*) Indicative data

(\*\*) According to EN 50419 the rectangle below the crossed out wheeled bin is not required in case the manufacturer indicates the date of manufacture/put on the market.

### 2.2 Marking required either on the product or on the packaging

- Lamp current.
- Marking required by ENERGY LABELLING OF HOUSEHOLD LAMPS (Directive 98/11/CE or Regulation (EU) 874/2012) (only class A lamps are allowed or class B when the lamp is provided with second envelop.)
- The following information according to WEEE directive given either on the product, on instruction leaflet or on the packing:
  - The requirement not to dispose of WEEE as unsorted municipal waste and to collect such WEEE separately
  - The return and collection systems available to them encouraging the coordination of information on the available collection points irrespective of the producers or other operators which have set them up
  - Their role in contributing to reuse, recycling and other forms of recovery of WEEE
  - The potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment
  - The meaning of the crossed out wheeled bin symbol (see marking)



### 2.3 Information to be visibly displayed prior to purchase to end-users on the packaging and on free access websites

The following information is required for lamps having luminous output >60lm (EC Regulation 244/2009):

- When the nominal lamp power is displayed outside the energy label in accordance with Directive 98/11/EC, the nominal luminous flux of the lamp shall also be separately displayed in a font at least twice as large as the nominal lamp power display outside the label
- Nominal life time of the lamp in hours
- Number of switching cycles before premature lamp failure
- Colour temperature (also expressed as a value in Kelvins)
- Warm-up time up to 60% of the full light output (may be indicated as 'instant full light' if less than 1 second)
- A warning if the lamp cannot be dimmed or can be dimmed only on specific dimmers
- If designed for optimal use in non-standard conditions (such as ambient temperature  $T_a \neq 25^\circ\text{C}$ ), information on those conditions
- Lamp dimensions in millimeters (length and diameter)
- If equivalence with an incandescent lamp is claimed on the packaging, the claimed equivalent incandescent lamp power (rounded to 1 W) shall be that corresponding in Table 6 (see annex) to the luminous flux of the lamp contained in the packaging
- The term 'energy saving lamp' or any similar product related promotional statement about lamp efficacy may only be used if the lamp complies with the efficacy requirements applicable to non-clear lamps in Stage 1 of Regulation (EC) n. 244/2009 and modifications
- If the lamp contains mercury lamp mercury content as X,X mg
- Indication which website to consult in case of accidental lamp breakage to find instructions on how to clean up the lamp debris

### 2.4 Main aspects to be verified

- **Visual inspection (see photographic Annex):**
  - Identification data (see clause 1)
  - Checking of information as required in clauses 2 and 3
  - Checking that the term "energy saving lamp" or similar statement is not used on products which do not comply with the efficacy requirements applicable to non-clear lamps in Stage 1 of Regulation (EC) n. 244/2009 and modifications (Energy class A or B for certain lamp with double envelope)
- **Inspection of documentation:**
  - Inspection of Declaration of Conformity (D.o.C). The D.o.C. shall contain all the reference to applicable legislation and applicable standards (see Applicable and Standards section (clauses 5 and 6)
- **Verification of importer/Producer registration for WEEE:**
  - The importer, placing luminaires on the national market, shall be already registered to the National Register of WEEE Producers. A registration number should have been released and it can be verified on National WEEE Register websites

## 2.5 Applicable legislation

List of applicable legislations and standards to be indicated in the Declaration of Conformity and Technical File:

Directive/Regulation	Directive Number	Declaration of Conformity	Technical File
LVD - LOW VOLTAGE DIRECTIVE (1)	2006/95/EC	YES	YES
EMC - ELECTROMAGNETIC COMPATIBILITY	2004/108/EC	YES	YES
WEEE - WASTE FROM ELECTRIC AND ELECTRONIC EQUIPMENT	2012/19/UE (replaces 2002/96/EC)	NO	NO
RoHS - RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES	2011/65/EU (replaces 2002/95/EC)	YES	YES
ECODESIGN	Directive 2009/125/EC		
	Regulation 244/2009 + 859/2009 (2)	YES	YES
ENERGY LABELLING OF HOUSEHOLD LAMPS	Directive 2010/30/EC		
	Regulation 874/2012 (3)	NO	YES
GENERAL PRODUCT SAFETY	2001/95/CE	NO	NO

(1) Low Voltage Directive is applicable to product designed for use with a voltage rating of between 50 and 1000V a.c. and 75 and 1500V d.c.

(2) Applicable to non-directional household lamps.

(3) 98/11/CE directive is in force till 31/08/2013. Starting from 01/09/2013 the energy labeling should be in conformity with Regulation 874/2012.

## 2.6 Applicable standards

Standards listed in the table below have to be all indicated in the Declaration of Conformity (legislation allows to indicate measures adopted to respect essential requirements as alternative to harmonized standards. This option is rarely used). The reference year of listed standards have to be indicated.

<b>LOW VOLTAGE</b>	EN 62560 (year) <sup>(*)</sup> EN 62493 (year)
<b>ELECTROMAGNETIC COMPATIBILITY</b>	EN 55015:(year) EN 61000-3-2:(year) EN 61000-3-3:(year) EN 61547:(year)

(\*) It will enter into force definitively on 15/10/2015

## ANNEX

### Visual inspections

**Table 6**

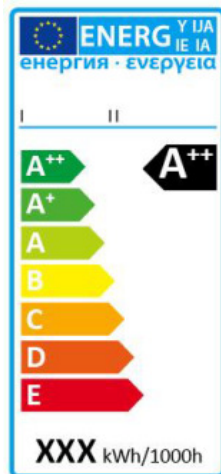
Rated lamp luminous flux ø [lm]			Claimed equivalent incandescent lamp power
CFL	Halogen	LED and other lamps	[W]
125	119	136	15
229	217	249	25
432	410	470	40
741	702	806	60
970	920	1 055	75
1 398	1 326	1 521	100
2 253	2 137	2 452	150
3 172	3 009	3 452	200

Energy label until 31/08/2013

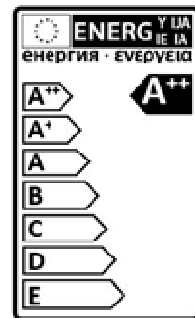
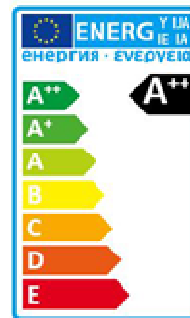
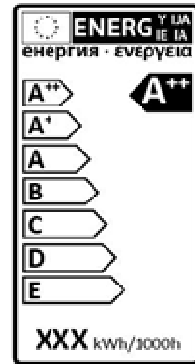
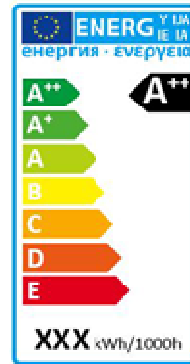


Energy label starting from 01/09/2013

Full labelling



If the label is printed on the packaging and the necessary information is included elsewhere on the packaging, that information may be omitted from the label

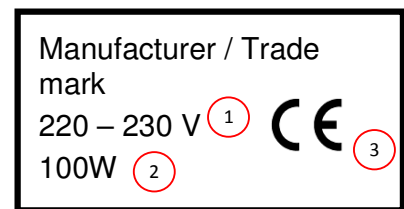


### 3. Detailed EU compliant requirements products sheet for non-directional halogen lamps (mains voltage)



#### 3.1 Minimum information to be marked on the product

- Mark of origin (trade mark, manufacturer's name or name of the responsible vendor/supplier)
- Rated voltage (V): 220V... 230V\* (1)
- Rated Wattage (W): 100W\* (2)
- CE marking (3)



\* Indicative data

Example of marking

#### 3.2 Marking required either on the product or on the packaging

- Marking required by ENERGY LABELLING OF HOUSEHOLD LAMPS (Directive 98/11/EC or Regulation (EU) 874/2012) (see annex for phase out according to Regulation (EC) n. 244/2009)

#### 3.3 Information to be visibly displayed prior to purchase to end-users on the packaging and on free access websites

The following information is required for lamps having luminous output >60lm (EC Regulation 244/2009):

- When the nominal lamp power is displayed outside the energy label in accordance with Directive 98/11/EC, the nominal luminous flux of the lamp shall also be separately displayed in a font at least twice as large as the nominal lamp power display outside the label
- Nominal life time of the lamp in hours
- Number of switching cycles before premature lamp failure
- Colour temperature (also expressed as a value in Kelvins)
- Warm-up time up to 60% of the full light output (may be indicated as 'instant full light' if less than 1 second)
- A warning if the lamp cannot be dimmed or can be dimmed only on specific dimmers
- If designed for optimal use in non-standard conditions (such as ambient temperature  $T_a \neq 25$  °C), information on those conditions

- Lamp dimensions in millimeters (length and diameter)
- If equivalence with an incandescent lamp is claimed on the packaging, the claimed equivalent incandescent lamp power (rounded to 1 W) shall be that corresponding in Table 6 (see annex) to the luminous flux of the lamp contained in the packaging
- The term 'energy saving lamp' or any similar product related promotional statement about lamp efficacy cannot be used with this technology

### 3.4 Main aspects to be verified

- **Visual inspection (see photographic Annex):**
  - Identification data (see clause 1)
  - Checking of information as required in clauses 2 and 3
  - Checking that the term "energy saving lamp" or similar statement is not used on products with this technology
  - Checking that the bulb is transparent. This technology is not allowed to be frosted or opalised
- **Inspection of documentation:**
  - Inspection of Declaration of Conformity (D.o.C). The D.o.C. shall contain all the reference to applicable legislation and applicable standards (see Applicable and Standards section (clauses 5 and 6))

### 3.5 Applicable legislation

List of applicable legislations and standards to be indicated in the Declaration of Conformity and Technical File:

Directive/Regulation	Directive Number	Declaration of Conformity	Technical File
LVD - LOW VOLTAGE DIRECTIVE (1)	2006/95/EC	YES	YES
RoHS - RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES	2011/65/EU (replaces 2002/95/EC)	YES	YES
ECODESIGN	Directive 2009/125/EC		
	Regulation 244/2009 + 859/2009 (2)	YES	YES
ENERGY LABELLING OF HOUSEHOLD LAMPS	Directive 2010/30/EC		
	Regulation 874/2012 (3)	NO	YES
GENERAL PRODUCT SAFETY	2001/95/CE	NO	NO

- (1) Low Voltage Directive is applicable to product designed for use with a voltage rating of between 50 and 1000V a.c. and 75 and 1500V d.c.
- (2) Applicable to non-directional household lamps
- (3) 98/11/CE directive is in force till 31/08/2013. Starting from 01/09/2013 the energy labeling should be in conformity with Regulation 874/2012.

### 3.6 Applicable standards

Standards listed in the table below have to be all indicated in the Declaration of Conformity (legislation allows to indicate measures adopted to respect essential requirements as alternative to harmonized standards. This option is rarely used). The reference year of listed standards have to be indicated.

<b>LOW VOLTAGE</b>	EN 60432-2 (year) for Edison and bayonet lamp cap EN 60432-3 (year) for all the other lamp cap
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## ANNEX

### Visual inspections

**Table 6**

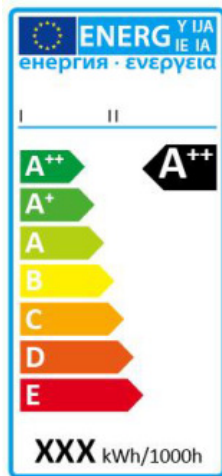
Rated lamp luminous flux ø [lm]			Claimed equivalent incandescent lamp power
CFL	Halogen	LED and other lamps	[W]
125	119	136	15
229	217	249	25
432	410	470	40
741	702	806	60
970	920	1 055	75
1 398	1 326	1 521	100
2 253	2 137	2 452	150
3 172	3 009	3 452	200

Energy label until 31/08/2013

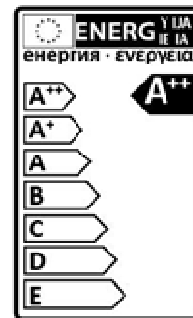
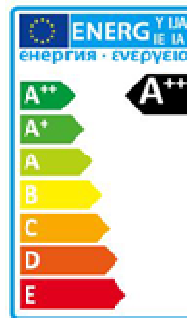
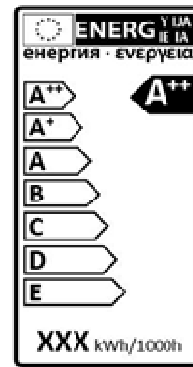
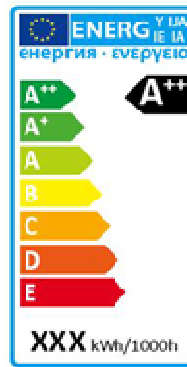


Energy label starting from 01/09/2013

Full  
labelling



If the label is printed on the packaging and the necessary information is included elsewhere on the packaging, that information may be omitted from the label





## Phase-out table for halogen lamp required by Regulation (EC) 244/2009 and modifications

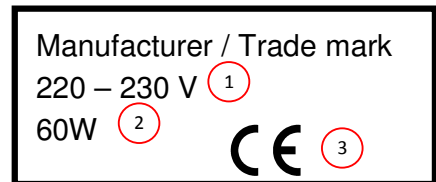
Date of phase-out	Requirement		Type of halogen lamps not allowed
	Non clear lamps	Clear lamp	
1 September 2009	A/BCDEFG	$\geq 950 \text{ lm} = \text{ABC/DEFG}$ $< 950 \text{ lm} = \text{ABCDE/FG}$	clear halogen lamps of <b>75 W</b> or more in class <b>D</b> or <b>E</b> + all non-clear lamps + all lamps class <b>F</b> or <b>G</b>
1 September 2010	A/BCDEFG	$\geq 725 \text{ lm} = \text{ABC/DEFG}$ $< 725 \text{ lm} = \text{ABCDE/FG}$	clear halogen lamps of <b>60 W</b> or more in class <b>D</b> or <b>E</b> )
1 September 2011	A/BCDEFG	$\geq 450 \text{ lm} = \text{ABC/DEFG}$ $< 450 \text{ lm} = \text{ABCDE/FG}$	clear halogen lamps of <b>40 W</b> or more in class <b>D</b> or <b>E</b>
1 September 2012	A/BCDEFG	$\geq 60 \text{ lm} \text{ ABC/DEFG}$	all lamps higher than <b>6 W</b> in class <b>D</b> or <b>E</b>
1 September 2016	A/BCDEFG	$\geq 60 \text{ lm} \text{ AB/CDEFG}$ except for clear lamps with G9/R7s caps: EEL C	All class <b>C</b> lamps, except clear G9/R7s lamps for which class <b>C</b> is allowed.

#### 4. Detailed EU compliant requirements products sheet for non-directional incandescent lamps (mains voltage)



##### 4.1 Minimum information to be marked on the product

- Mark of origin (trade mark, manufacturer's name or name of the responsible vendor/supplier).
- Rated voltage (V): 220V... 230V (\*) (1)
- Rated Wattage (W): 60W (\*) (2)
- CE marking (3)



(\*) Indicative data

Example of marking

##### 4.2 EcoDesign requirements

In accordance with the 2009/125/EC Directive and with Regulation (EC)244/2009, from 01/09/2012 lamps with this technology can no longer be placed on the market.

Exceptions:

- Lamp with non-white light
- Lamp with flux < 60lm
- Lamp with lamp cap E14/E27/B22/B15 with nominal voltage <60V
- Lamp for special use

## **e. Disclaimer**

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