

L.N. 350 of 2007

PRODUCT SAFETY ACT
(Cap. 427)

**Energy Efficiency Requirements for Ballasts for Fluorescent
Lighting (Implementing Measures) Regulations, 2007**

IN exercise of the powers conferred by articles 38 to 40 of the Product Safety Act, the Minister for Competitiveness and Communications, on the advice of the Malta Standards Authority, has made the following regulations:-

1. (1) The title of these regulations is the Efficiency Requirements for Ballasts for Fluorescent Lighting (Implementing Measures) Regulations, 2007. Citation and commencement.

(2) These regulations shall be interpreted in terms of the Framework for the Setting of Ecodesign Requirements for Energy-Using Products Regulations, 2007, hereinafter referred to as “the Ecodesign regulations”.

(3) These regulations implement the requirements of directive 2000/55/EC of the European Parliament and of the Council of 18 September 2000 on energy efficiency requirements for ballasts for fluorescent lighting as amended by Directive 2005/32/EC of the European Parliament and of the Council of 6th July 2005 Establishing a Framework for the Setting of Ecodesign Requirements for Energy-Using Products and Amending Council Directive 92/42/EEC and Directives 96/57/EC⁽¹⁾ and 2000/55/EC⁽²⁾ of the European Parliament and of the Council.

(4) These regulations constitute an implementing measure within the meaning of the principal regulations with regard to energy efficiency during use of ballasts.

(1) OJ No. L236, 18-09-1996, p. 36-43.

(2) OJ No. L279, 01-11-2000, p. 33-39.

(5) These regulations shall come into force on the 11th August 2007.

Scope and application.

2. (1) These regulations shall apply to electric mains-operated ballasts for fluorescent lighting sources as defined in MSA EN 50294:2002, point 3.4 and referred to hereinafter as 'ballasts'.

(2) The following types of ballasts are excluded from these regulations:

(a) ballasts integrated in lamps,

(b) ballasts designed specifically for luminaires to be mounted in furniture and which form a non-replaceable part of the luminaire which cannot be tested separately from the luminaire (according to MSA EN 60920:2002, clause 2.1.3), and

(c) ballasts to be exported from the Community, either as a single component or incorporated in luminaires.

(3) Ballasts shall be classified in accordance with Schedule I hereto.

Definitions.

3. For the purposes of these regulations, the definitions of the Ecodesign regulations shall also apply.

Placing on the market and putting into service.

4. With regard to placing on the market and putting into service mentioned in the principal regulations the maximum input power of ballast-lamp circuits shall be in accordance with Schedules I, II and III hereto for each ballast category.

Marking and declaration of conformity.

5. (1) Marking procedures shall apply to ballasts whether they are placed on the market as a single component or incorporated in luminaires.

(2) Notwithstanding the requirement in Schedule I of the Ecodesign regulations to affix the 'CE' mark to the packaging when it is not possible to affix it to the product, in the case of ballasts the 'CE' mark shall be affixed to both the ballasts and their packaging.

6. (1) With regard to the conformity assessment procedures mentioned in the principal regulation the following regulation shall apply.

Conformity
assessment
procedures.

(2) Without prejudice to regulations 5 and 10 of the principal regulations, the procedures for conformity assessment of ballasts as single components or incorporated in luminaries and the rules for the affixing and use of the CE conformity marking shall be in accordance with Module A of Council Decision 93/465/EEC⁽³⁾ and with the criteria set out in that Decision and in the general guidelines in the Annex thereto.

(3) The period referred to in paragraph 2 of Module A of Council Decision 93/465/EEC shall be 3 years for the purposes of these regulations.

(4) (a) The content of the technical documentation referred to in paragraph 3 of Module A of Council Decision 93/465/EEC shall comprise:

- the name and address of the manufacturer;
- a general description of the model sufficient for unambiguous identification;
- information, including drawings as relevant, on the main design features of the model and in particular on items which appreciably affect its electricity consumption;
- the operating instructions;
- the results of power consumption measurements carried out as required by sub-paragraph (c) of this regulation;
- details of the conformity of these measurements as compared with the energy consumption requirements set out in Schedule I hereto.

(b) Technical documentation established for other Maltese or Community legislation may be used in so far as it meets these requirements.

(3) OJ No. L 220, 30-08-93, p. 23.

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(c) Manufactures of ballasts shall be responsible for establishing the power consumption of each ballast according to the procedures specified in MSA EN 50294:2002, as well as the appliance's conformity with the requirements of regulation 4 of these regulations.

Repeals L.N. 100 of 2002.

7. The Energy Efficiency Requirements for Ballasts for Fluorescent Lighting Regulations, 2002 are hereby being repealed.

Schedule I

Based on Annex I of directive 2000/55/EC

BALLAST CATEGORIES

To calculate the maximum input power of ballast-lamp circuits of a given ballast, the ballast must first be allocated to the appropriate category from the following list:

Category	Description
1	Ballast for linear lamp type
2	Ballast for compact 2 tubes lamp type
3	Ballast for compact 4 tubes flat lamp type
4	Ballast for compact 4 tubes lamp type
5	Ballast for compact 6 tubes lamp type
6	Ballast for compact 2 D lamp type

Schedule II

Based on Annex II of directive 2000/55/EC

METHODS FOR CALCULATING THE MAXIMUM INPUT POWER OF BALLAST-LAMP CIRCUITS FOR A GIVEN BALLAST TYPE

The energy efficiency of the ballast-lamp circuit is determined by the maximum input power into the circuit. This is a function of the lamp power and of the type of ballast; for this reason, the maximum input power of the ballast-lamp circuits of a given ballast is defined as the maximum ballast-lamp circuit power, with different levels for each lamp power and ballast type.

The terms used in this Schedule correspond to the definitions in MSA EN 50294:2002.

Schedule III

Based on Annex IV of directive 2000/55/EC

SECOND PHASE

The maximum input power of ballast-lamp circuits expressed in W is defined by the following table:

Ballast category	Lamp power		Maximum input power of ballast-lamp circuits
	50 Hz	HF	
1	15 W	13.5 W	23 W
	18 W	16 W	26 W
	30 W	24 W	38 W
	36 W	32 W	43 W
	38 W	32 W	45 W
	58 W	50 W	67 W
	70 W	60 W	80 W
2	18 W	16 W	26 W
	24 W	22 W	32 W
	36 W	32 W	43 W
3	18 W	16 W	26 W
	24 W	22 W	32 W
	36 W	32 W	43 W
4	10 W	9.5 W	16 W
	13 W	12.5 W	19 W
	18 W	16.5 W	26 W
	26 W	24 W	34 W
5	18 W	16 W	26 W
	26 W	24 W	34 W
6	10 W	9 W	16 W
	16 W	14 W	23 W
	21 W	19 W	29 W
	28 W	25 W	36 W
	38 W	34 W	45 W

Whenever a ballast is designed for a lamp which falls between two values indicated in the above table, the maximum input power of ballast-lamp circuit is calculated by linear interpolation between the two values of maximum input power for the two closest lamps power indicated in the table.

For example if a ballast in lamp category 1 is rated for a 48 W lamp at 50 Hz, the maximum input power of ballast-lamp circuit is calculated as follows:

$$45 + (48-38) * (67-45)/(58-38) = 56 \text{ W}$$