

L.N. 100 of 2002

**PRODUCT SAFETY ACT, 2001
(ACT NO. V OF 2001)**

**Energy Efficiency Requirements for Ballasts for Fluorescent
Lighting Regulations, 2002**

IN exercise of the powers conferred by articles 38 to 40 of the Product Safety Act, 2001, the Minister for Economic Services, 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 Regulations, 2002. Citation and commencement

1.2. These regulations shall become operative on the 1st January, 2003:

Provided that the requirement to provide information to the European Commission referred to in regulation 8.3 of these regulations shall come into force on such date as the Minister responsible for consumer affairs, after consultation with the Malta Standards Authority, may prescribe.

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'. Scope

2.1. The following types of ballasts are excluded from these regulations:

2.1.1. ballasts integrated in lamps,

2.1.2. 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

2.1.3. ballasts to be exported from the Community, either as a single component or incorporated in luminaries.

2.2. Ballasts shall be classified in accordance with Annex I of the Directive, which is set out in Schedule I hereto.

Definitions

3.1. For the purposes of these regulations, the following definitions shall apply:

3.1.1. "The Directive" means Council Directive 2000/55/EEC¹ of the European Parliament and of the Council of 18th September, 2000, on energy efficiency requirements for ballasts for fluorescent lighting;

3.1.2. "Ballast" means a ballast to which these regulations apply by virtue of regulation 2 of these regulations;

3.1.3. "Harmonised Standard" means a technical specification adopted by the European Committee for Standardisation (CEN) or the European Committee for Electrotechnical Standardisation (CENELEC) or the European Telecommunications Standards Institute (ETSI), upon a remit from the European Commission in accordance with Directive 98/34/EC² of the European Parliament and of the Council laying down a procedure for the provision of information in the field of technical standards and regulations as amended by Directive 98/48/EC³ of the European Parliament and of the Council;

3.1.4. "National Standard transposing the Harmonised Standard" means a Standard issued by one of the members of CEN/CENELEC/ETSI which is declared and noted to be technically equivalent to the Harmonised Standard originally issued by CEN/CENELEC/ETSI;

3.1.5. "OJ" means the Official Journal of the European Communities;

3.1.6. "Community" means the European Community;

3.1.7. "CE marking" means the CE conformity marking consisting of the symbol "CE" as set out in Schedule V to these regulations;

¹ OJ No. L 279, 01-11-2000, p. 33-39.

² OJ No. L 204, 21.07.98, P. 37.

³ OJ No. L 217, 05.08.98, P. 18.

3.1.8. "Manufacturer" means the person:

3.1.8.1. who is primarily responsible for the design and construction of the ballast so that it complies with the requirements of these regulations;

3.1.8.2. who is responsible for "re-building" or modifying an existing ballast, and who in so doing is creating an "as-new" ballast;

3.1.8.3. who takes responsibility for the appraisal of the design, construction and any necessary modification of used imported ballasts;

3.1.9. "Local authorised representative" means any person (or organisation) established in Malta who has been appointed by the manufacturer to act on his behalf in carrying out certain tasks required by these regulations;

3.1.10. "Importer" means any person who places a ballast from a foreign country on to the Maltese market so that he supplies such a ballast on the first occasion that it is supplied in Malta;

3.1.11. "Person who supplies ballasts" means wholesalers, distributors, retailers etc;

3.1.12. "Supply" includes offering to supply, agreeing to supply, exposing for supply and possessing for supply, and cognate expressions shall be construed accordingly:

Provided that "supply" does not include exhibition at trade fairs and exhibitions of ballasts in respect of which the provisions of these regulations are not satisfied if a notice is displayed in relation to the boiler in question to the effect:-

3.1.12.1. that it does not satisfy those provisions; and

3.1.12.2. that it may not lawfully be supplied until the responsible person has ensured that those provisions are satisfied;

3.1.13. "Responsible person" in relation to ballasts means:

3.1.13.1. the manufacturer thereof

3.1.13.2. the manufacturer's local authorised representative; or

3.1.13.3. where the manufacturer is not established in Malta and he has not appointed a local authorised representative, the person who places the ballasts on the local market;

3.1.14. "Placing on the market" means importation, wholesale, retail, sale and distribution free of charge.

Applicability

4.1. The provisions of these regulations are applicable to all imported ballasts specified in regulation 2 of these regulations, as well as to those manufactured for the local market.

4.1.1. No person may construct, import, place on the market or put into service any ballast which does not comply with the provisions of these regulations.

General requirements

5.1. All necessary measures shall be taken to ensure that, during the first phase, ballasts may be placed on the market, either as a single component or incorporated in luminaries, only if the power consumption of the ballast in question is less than, or equal to, the maximum input power of ballast-lamp circuits as defined in Annexes I, II and III of the Directive, which are set out in Schedules I, II and III hereto for each ballast category.

5.2. The manufacturer of a ballast, its or his authorised representative or the person responsible for placing the ballast, either as a single component or incorporated in luminaries, on the market shall be responsible for ensuring that each ballast placed on the market, either as a single component or incorporated in luminaries, conforms with the requirements referred to in regulation 5.1 of these regulations.

Free movement

6.1. The placing on the market of ballasts, either as a single component or incorporated in luminaries, which bear the "CE" marking attesting to their conformity with the provisions of these regulations, may not be prohibited, restricted or impeded.

6.2. Unless there is evidence to the contrary, it shall be presumed that ballasts, either as a single component or incorporated in luminaries, bearing the "CE" marking required under regulation 7.6 of these regulations comply with the provisions of these regulations.

7.1. Without prejudice to regulations 7.6 and 8 of these 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/EEC⁴ and with the criteria set out in that Decision and in the general guidelines in the Annex thereto.

7.2. 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.

7.3. The content of the technical documentation referred to in paragraph 3 of Module A of Council Decision 93/465/EEC shall comprise:

7.3.1 the name and address of the manufacturer;

7.3.2. a general description of the model sufficient for unambiguous identification;

7.3.3. information, including drawings as relevant, on the main design features of the model and in particular on items which appreciably affect its electricity consumption;

7.3.4. the operating instructions,

7.3.5. the results of power consumption measurements carried out as required by regulation 7.5 of these regulations;

7.3.6. details of the conformity of these measurements as compared with the energy consumption requirements set out in Annex I of the Directive, which is set out in Schedule I hereto.

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

7.5. 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 5 of these regulations and Article 9 of the Directive, which is set out in regulation 9 hereto.

⁴ OJ No. L 220, 30-08-93, p. 23.

7.6. When ballasts are placed on the market, either as a single component or incorporated in luminaries, they shall bear the "CE" marking, which shall consist of the initials "CE". The "CE" marking shall be affixed visibly, legibly and indelibly to ballasts and their packaging. Where ballasts are placed on the market incorporated in luminaries, the "CE" marking shall be affixed to the luminaries and their packaging.

Withdrawal and
prohibition from
market

8.1. Where a non-complying ballast, referred to in regulation 3.1.2. of these regulations bears the CE marking, the Director of Consumer Affairs shall take appropriate action against whom so ever has affixed the marking or drawn up the declaration and shall so inform the Consumer and Industrial Goods Directorate⁵ of the Malta Standards Authority.

8.2. Any decision taken pursuant to these regulations, which contains a restriction on the placing on the market of ballasts, as a single component or incorporated in luminaires, shall state the precise grounds on which it is based.

8.2.1. The party concerned shall be notified without delay of the decision and shall be informed at the same time of the possibilities and time limits regarding the legal remedies available to it under the laws in force in Malta and of the time limits to which such remedies are subject.

8.3. The Consumer and Industrial Goods Directorate of the Malta Standards Authority shall immediately inform the Commission of any measures taken in pursuance of regulation 8.1 of these regulations.

8.4. All appropriate measures shall be taken to encourage the local authorities responsible for implementing these regulations to cooperate with each other and provide each other with information in order to assist the functioning of these regulations.

Implementation

9.1. Five years after the entry into force of the Directive, i.e. during a second phase, the maximum input power of ballast-lamp circuits shall be in accordance with Annex IV of the Directive, which is set out in Schedule IV hereto, in particular in connection with regulation 5 of these regulations.

⁵ L.N. 213 of 2000 - Malta Standards Authority (Establishment of Directorates) Order, 2000, published in the Government Gazette No. 17,002 of 20th October, 2000.

Schedule I

Based on Annex I of the Directive

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 the Directive

**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 III of the Directive

FIRST 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	11F	
1	15 W	13.5 W	25 W
	18 W	16 W	28 W
	30 W	24 W	40 W
	36 W	32 W	45 W
	38 W	32 W	47 W
	58 W	50 W	70 W
	70 W	60 W	83 W
2	18 W	16 W	28 W
	24 W	22 W	34 W
	36 W	32 W	45 W
3	18 W	16 W	28 W
	24 W	22 W	34 W
	36 W	32 W	45 W
4	10 W	9.5 W	18 W
	13 W	12.5 W	21 W
	18 W	16.5 W	28 W
	26 W	24 W	36 W
5	18 W	16 W	28 W
	26 W	24 W	36 W
6	10 W	9 W	18 W
	16 W	14 W	25 W
	21 W	19 W	31 W
	28 W	25 W	38 W
	38 W	34 W	47 W

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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:

$$47 + (48-38) * (70-47)/(58-38) = 58.5 \text{ W}$$

Schedule IV

Based on Annex IV of the Directive

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

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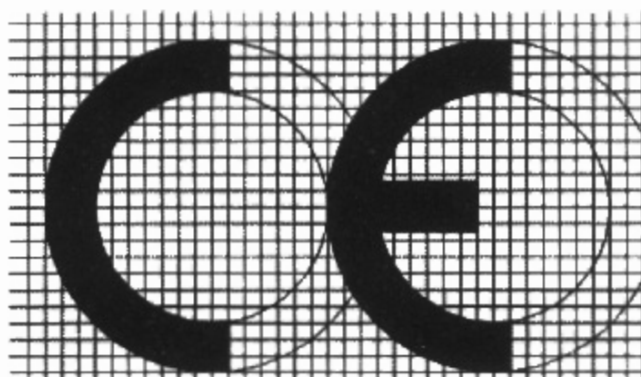
Whenever a ballast is designed for a lamp which falls between two values indicated in the above table, the maximum input power of ballast-lamp circuit is calculated by linear interpolation between the two values of maximum input power for the two closest lamps power indicated in the table.

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:

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

Schedule V**CE MARKING**

The CE marking consists of the initials "CE" taking the following form:



For the avoidance of doubt, it is hereby declared that the grid providing the background in the above graduated drawing is not part of the CE marking.

If the CE marking is reduced or enlarged the proportions given in the above graduated drawing must be respected. The various components of the CE marking must have substantially the same vertical dimension, which may not be less than 5 mm.
