

TECHNICAL REGULATION ON ECODESIGN REQUIREMENTS FOR STANDBY AND OFF MODE ELECTRIC POWER CONSUMPTION OF ELECTRICAL AND ELECTRONIC HOUSEHOLD AND OFFICE EQUIPMENT, NO. (XXX) FOR THE YEAR 2012, ISSUED IN ACCORDANCE TO ARTICLE (XXX) AND ARTICLE (XXX) OF STANDARDS AND METROLOGY LAW NO 22/2000

Article 1:

This Technical Regulation shall be referred to as the "Technical Regulation on ecodesign requirements for standby and off mode electric power consumption of electrical and electronic household and office equipment, No. ...".

Article 2:

This Technical Regulation represents an implementing Technical Regulation to Technical Regulation on ecodesign requirements for energy related products, No. ... (hereinafter: Framework Technical Regulation), both of which shall be used to establish the ecodesign requirements for standby and off mode electric power consumption of electrical and electronic household and office equipment.

Section 1
Definitions

Article 3:

In addition to the definitions laid down in Article 2 of the Framework Technical Regulation, the following definitions shall apply for the purpose of this implementing Technical Regulation:

3-1 Electrical and electronic household and office equipment (hereinafter referred to as "equipment"): any energy-using product which:

(a) is made commercially available as a single functional unit and is intended for the end-user;

(b) falls under the list of energy-using products of Annex A;

(c) is dependent on energy input from the mains power source in order to work as intended; and

(d) is designed for use with a nominal voltage rating of 250 V or below, also when marketed for non-household or non-office use;

3-2 Standby mode(s): means a condition where the equipment is connected to the mains power source, depends on energy input from the mains power source to work as intended and provides only the following functions, which may persist for an indefinite time:

— reactivation function, or reactivation function and only an indication of enabled reactivation function, and/or

— information or status display;

3-3 Reactivation function: function facilitating the activation of other modes, including active mode, by remote switch, including remote control, internal sensor, timer to a condition providing additional functions, including the main function;

3-4 Information or status display: continuous function providing information or indicating the status of the equipment on a display, including clocks;

3-5 Active mode(s): a condition in which the equipment is connected to the mains power source and at least one of the main function(s) providing the intended service of the equipment has been activated;

3-6 Off mode: a condition in which the equipment is connected to the mains power source and is not providing any function; the following shall also be considered as off mode:

(a) conditions providing only an indication of off-mode condition;

(b) conditions providing only functionalities intended to ensure electromagnetic compatibility according to the rules on electromagnetic compatibility;

3-7 Information technology equipment: any equipment which has a primary function of either entry, storage, display, retrieval, transmission, processing, switching, or control, of data and of telecommunication messages or a combination of these functions and may be equipped with one or more terminal ports typically operated for information transfer;

3-8 Domestic environment: an environment where the use of broadcast radio and television receivers may be expected within a distance of 10 m of the apparatus concerned;

3-9 Low voltage external power supply: an external power supply with a nameplate output voltage of less than 6 volts and a nameplate output current greater than or equal to 550 milliamperes.

Section 2 Subject matter and scope

Article 4:

4-1 This implementing Technical Regulation establishes requirements related to standby and off mode electric power consumption. This Regulation applies to electrical and electronic household and office equipment.

4-2 This implementing Technical Regulation shall not apply to electrical and electronic household and office equipment placed on the market with a low voltage external power supply.

Section 3 Requirements, conformity assessment and market surveillance

Article 5: Ecodesign requirements

The ecodesign requirements related to standby and off mode electric power consumption are set out in Annex B to this implementing Technical Regulation.

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Article 6: Conformity assessment

The conformity assessment procedure referred to in Article 10 of the Framework Technical Regulation shall be the internal design control system set out in Annex B to that Technical Regulation or the management system for assessing conformity set out in Annex C to that Technical Regulation.

Article 7: Verification procedure for market surveillance purposes

Surveillance checks shall be carried out in accordance with the verification procedure set out in Annex C to this implementing Technical Regulation.

Article 8: Benchmarks

The indicative benchmarks for the best-performing products and technology currently available on the market are identified in Annex D to this implementing Technical Regulation.

Section 4
Related documents

Article 9:

9-1 This Technical Regulation represents transposition of Commission Regulation 1275/2008 on ecodesign requirements for standby and off mode electric power consumption of electrical and electronic household and office equipment.

9-2 Technical Regulation on ecodesign requirements for energy related products, No.

9-3 Standards and Metrology Law, No. 22/2000.

9-4 Instructions on market surveillance, No ...

Section 5
Entry into force

Article 10:

This Technical Regulation shall enter into force on 1/1/2014.

ANNEX A
LIST OF ENERGY RELATED PRODUCTS COVERED BY THIS TECHNICAL
REGULATION

1. Household appliances

Washing machines

Clothes dryers

Dish washing machines

Cooking:

Electric ovens

Electric hot plates

Microwave ovens

Toasters

Fryers

Grinders, coffee machines and equipment for opening or sealing containers or packages

Electric knives

Other appliances for cooking and other processing of food, cleaning, and maintenance of clothes

Appliances for hair cutting, hair drying, tooth brushing, shaving, massage and other body care appliances

Scales

2. Information technology equipment intended primarily for use in the domestic environment

3. Consumer equipment

Radio sets

Video cameras

Video recorders

Hi-fi recorders

Audio amplifiers

Home theatre systems

Musical instruments

And other equipment for the purpose of recording or reproducing sound or images, including signals or other technologies for the distribution of sound and image other than by telecommunications, but excluding televisions as defined in Technical Regulation on ecodesign requirements for televisions" No.

4. Toys, leisure and sports equipment

Electric trains or car racing sets

Hand-held video game consoles

Sports equipment with electric or electronic components

Other toys, leisure and sport equipment

ANNEX B ECODESIGN REQUIREMENTS

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(a) Power consumption in 'off mode':

Power consumption of equipment in any off-mode condition shall not exceed 0,50 W.

(b) Power consumption in 'standby mode(s)':

The power consumption of equipment in any condition providing only are activation function, or providing only a reactivation function and a mere indication of enabled reactivation function, shall not exceed 0,50 W.

The power consumption of equipment in any condition providing only information or status display, or providing only a combination of reactivation function and information or status display shall not exceed 1,00 W.

(c) Availability of off mode and/or standby mode

Equipment shall, except where this is inappropriate for the intended use, provide off mode and/or standby mode, and/or another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source.

(d) Power management

When equipment is not providing the main function, or when other energy-using product(s) are not dependent on its functions, equipment shall, unless inappropriate for the intended use, offer a power management function, or a similar function, that switches equipment after the shortest possible period of time appropriate for the intended use of the equipment, automatically into:

- standby mode, or
- off mode, or
- another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source. The power management function shall be activated before delivery.

2. Measurements

The power consumption referred to in points 1(a), 1(b), shall be established by a reliable, accurate and reproducible measurement procedure, which takes into account the generally recognised state of the art.

Measurements of power of 0,50 W or greater shall be made with an uncertainty of less than or equal to 2 % at the 95 % confidence level.

Measurements of power of less than 0,50 W shall be made with an uncertainty of less than or equal to 0,01 W at the 95 % confidence level.

3. Information to be provided by manufacturers

For the purposes of conformity assessment pursuant to Article 6, the technical documentation shall contain the following elements:

(a) for each standby and/or off mode:

- the power consumption data in Watts rounded to the second decimal place,
- the measurement method used,
- description of how the appliance mode was selected or programmed,
- sequence of events to reach the mode where the equipment automatically changes modes,
- any notes regarding the operation of the equipment;

(b) test parameters for measurements:

- ambient temperature,
- test voltage in V and frequency in Hz,
- total harmonic distortion of the electricity supply system,
- information and documentation on the instrumentation, set-up and circuits used for electrical testing;

(c) the characteristics of equipment relevant for assessing conformity with the requirements set out in points 1(c) and/or 1(d), as applicable, including the time taken to automatically reach standby, or off mode, or another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode.

In particular, if applicable, the technical justification shall be provided that the requirements set out in points 1(c) and/or 1(d), are inappropriate for the intended use of equipment.

ANNEX C VERIFICATION PROCEDURE

When performing the market surveillance checks referred to in Article 15 of the Framework Technical Regulation, the Organization shall apply the following verification procedure for the requirements set out in Annex B to this implementing Technical Regulation, points 1(a) and 1(b), or points 2(a) and 2(b), as applicable.

For power consumption requirements larger than 1,00 W, the Organization shall test one single unit.

The model shall be considered to comply with the provisions set out in Annex B, points 1(a) and 1(b), or points 2(a) and 2(b), as applicable, to this Technical Regulation if the results for off-mode and standby-mode conditions, as applicable, do not exceed the limit values by more than 10 %.

Otherwise, three more units shall be tested. The model shall be considered to comply with this Technical Regulation if the average of the results of the latter three tests for off-mode and/or standby-mode conditions, as applicable, does not exceed the limit values by more than 10 %.

For power consumption requirements smaller than, or equal to, 1,00 W, the Organization shall test one single unit.

The model shall be considered to comply with the provisions set out in Annex B, points 1(a) and 1(b), or points 2(a) and 2(b), as applicable, to this Technical Regulation if the results for off-mode and/or standby-mode conditions, as applicable, do not exceed the limit values by more than 0,10 W.

Otherwise, three more units shall be tested. The model shall be considered to comply with this Technical regulation if the average of the results of the latter three tests for off-mode and/or standby-mode conditions, as applicable, does not exceed the limit values by more than 0,10 W.

Otherwise, the model shall be considered not to comply.

ANNEX D BENCHMARKS

Manufacturers will make use of an assessment of the product's model throughout its lifecycle to evaluate alternative design solutions and the achieved environmental performance of the product against benchmarks.

The following benchmarks are identified to perform the assessment of the product's model throughout its lifecycle:

Off mode: 0 W-0,3 W with hard-off switch on the primary side, depending, *inter alia*, on the characteristics related to electromagnetic compatibility according to the legislation on electromagnetic compatibility.

Standby — reactivation function: 0,1 W.

Standby — display: simple displays and low power LEDs 0,1 W, larger displays (e.g. for clocks) require more power.