

**ENERGY COMMISSION (ENERGY EFFICIENCY STANDARDS
AND LABELLING) (TELEVISION SETS AND MONITORS)
REGULATIONS, 2022**

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IN exercise of the power conferred on the Minister responsible for Energy by subparagraph (i) of paragraph (a) of subsection (1) of section 56 of the Energy Commission Act, 1997 (Act 541), and on the advice of the Board, these Regulations are made this 28th day of June, 2022.

Preliminary Provisions

Purpose of Regulations

1. The purpose of these Regulations is to promote the efficient use and conservation of energy in the country and mitigate related climate change by

(a) providing for

- (i) the enforcement of Standards set out in the First Schedule and the minimum energy performance standards set out in Part One of the Second Schedule;
- (ii) the labelling of electric mains-operated television sets or monitors;
- (iii) supplementary product information on electric mains-operated television sets or monitors; and
- (iv) the registration of models of television sets or monitors in the Appliance Energy Efficiency Register; and

(b) prohibiting the manufacture, importation, offer for sale, sale, storage, donation, disposal, installation or use of a television set or monitor that does not meet the minimum energy performance standards set out in Part One of the Second Schedule.

Application of Regulations

2. (1) These Regulations apply to a television set or monitor, manufactured in the country or imported into the country for display, sale or use.

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- (2) These Regulations do not apply to
- (a) a rating plate or the equivalent of a rating plate affixed to a television set for purposes of safety;
 - (b) a digital display and signage; and
 - (c) a television set or monitor other than an electric mains-operated television set or monitor.

Duties and Requirements

Duty to comply with requirements

3. (1) A person who manufactures, imports, offers for sale, sells, stores, supplies, distributes, donates or otherwise disposes of a television set or monitor for use in the country shall ensure that each model of the television set or monitor

(a) is registered with the Commission; and

(b) meets the

- (i) Standards set out in the First Schedule;
- (ii) minimum energy performance standards set out in Part One of the Second Schedule;
- (iii) labelling requirements set out in the Third Schedule; and
- (iv) information requirements set out in the Fourth Schedule.

(2) A person who advertises a television set or monitor shall comply with the provisions of Part Five of the Fourth Schedule.

Prohibition of manufacture, importation, offer for sale, sale, storage, donation, disposal, installation or use of television set or monitor

4. (1) A person shall not manufacture, import, offer for sale, sell, store, donate, or otherwise dispose of, install or use a television set or monitor in the country unless

- (a) the television set or monitor has a minimum Energy Efficiency Index as specified in Table 1 of the Second Schedule;

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- (b) the energy consumption of the television set or monitor in standby mode does not exceed the value indicated as P_{basic} in the Second Schedule; and
 - (c) after 1st January 2025, the television set or monitor has an occupancy sensor function.
- (2) An enforcement authority shall
- (a) detain, cause to be re-exported or seize and destroy a television set or monitor imported for use in the country contrary to subregulation (1); or
 - (b) seize and destroy a television set or monitor manufactured for use in the country contrary to subregulation (1).

Category of television set or monitor

5. The category of a television set or monitor shall be determined in accordance with the categories set out in Part Two of the Fourth Schedule.

Energy efficiency star rating of television set or monitor

6. The energy efficiency star rating of a television set or monitor shall be determined in accordance with the ratings set out in Part One of the Second Schedule.

Voltage, input power or wattage of television set or monitor

7. The manufacturer of a television set or monitor shall ensure that the rated voltage, input power or wattage of the television set or monitor is printed conspicuously and displayed on the back of the television set or monitor.

Measurement methods

8. The information to be provided pursuant to regulations 10 and 11 shall be obtained by

- (a) a reliable, accurate and reproducible measurement which takes into account recognised state-of-the-art measurements; and
 - (b) calculation methods
- in accordance with the Standards.

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Use of circumvention device

9. (1) A manufacturer, an importer or an authorised representative of the manufacturer shall not use a circumvention device during the conduct of a test of a television set or monitor.

(2) A person shall not manufacture, import, offer for sale, sell, store, donate, or otherwise dispose of, install or use a television set or monitor which is designed to

- (a) detect that the television set or monitor is being tested by recognising the test conditions or test cycle; or
- (b) react specifically by automatically altering the performance of the television set or monitor during the test with the aim of reaching a more favourable level for any of the parameters declared by the manufacturer, importer or authorised representative of the manufacturer, in the technical documentation or included in any other documentation provided.

(3) The energy consumption of a television set or monitor and any of the other declared parameters shall not deteriorate after a

- (a) software; or
- (b) firmware

update, when measured with the same test standard originally used for the declaration of conformity, except with the consent of the Commission and the Standards Authority, before the update.

(4) A manufacturer, an importer or an authorised representative of the manufacturer shall inform the Commission and the Standards Authority in writing, with reasons, prior to an update of the software or firmware.

Technical documentation

10. (1) A person shall not manufacture, import, offer for sale, sell, store, distribute, donate or otherwise dispose of a television set or

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monitor for use in the country, unless that person has provided the Commission with sufficient technical documentation to enable the Commission

- (a) ascertain the accuracy of the information contained
 - (i) in the Product Information Sheet; or
 - (ii) on the label; and
 - (b) register each model of the television set or monitor in the Appliance Energy Efficiency Register.
- (2) The technical documentation referred to in subregulation (1) shall
- (a) be in the English language;
 - (b) include the Product Information Sheet set out in Part One of the Fourth Schedule; and
 - (c) contain the information set out in Part Three of the Fourth Schedule marked "Technical Documentation".
- (3) The technical documentation shall
- (a) be prepared for each model of a television set or monitor placed on the market; and
 - (b) include
 - (i) the name and address of the supplier;
 - (ii) the description of the television set or monitor, for purposes of identification;
 - (iii) the model identifier of the manufacturer;
 - (iv) the relevant drawings on the main design features of the model and parameters of the television set or monitor that affect the energy consumption of the television set or monitor;
 - (v) reports of relevant measurement tests carried out in compliance with the Standards;
 - (vi) details of calculations, extrapolations and tests carried out to verify the accuracy of calculations;
 - (vii) the installation and operating instructions; and
 - (viii) the period within which the model of the television set or monitor was manufactured.

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Labelling and information requirements

11. (1) A person shall not manufacture, import, offer for sale, sell, store, supply, distribute, donate or otherwise dispose of a television set or monitor for use in the country, unless the television set or monitor and the packaging of the television set or monitor meet the following requirements:

- (a) the television set or monitor shall bear a label
 - (i) in the form set out in the Third Schedule; and
 - (ii) placed on the back of the television set or monitor;
- (b) the information in respect of the television set or monitor indicated on the packaging of the television set or monitor shall be in the English language;
- (c) the Product Information Sheet in respect of the television set or monitor shall be as set out in Part One of the Fourth Schedule;
- (d) the label on the packaging containing the television set or monitor shall
 - (i) contain the information set out in the Third Schedule; and
 - (ii) be printed in colour;
- (e) the labels on the television set or monitor and the packaging of the television set or monitor shall include the following information:
 - (i) the Quick Response Code;
 - (ii) the name or trade mark of the manufacturer;
 - (iii) the model identifier of the manufacturer;
 - (iv) the energy efficiency index of the television set or monitor;
 - (v) a one-star to seven-star energy efficiency rating in which the ascending number of stars represents a higher energy efficiency determined in accordance with Table 1 in the Second Schedule where annual energy consumption is determined in accordance with the test procedures and calculations of the Standards as set out in the Second Schedule;

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- (vi) the number of stars corresponding to the star-rating class in relation to the information referred to in paragraph (b) of subregulation 1 of regulation 3 and shaded in black;
 - (vii) the input power or wattage of the television set or monitor, measured in accordance with the test procedures of the Standards specified in the Second Schedule; and
 - (viii) the country of origin or manufacture;
- (f) the information in respect of the television set or monitor shall include the wattage and voltage of the television set or monitor;
- (g) the background of a label printed or pasted on each packaging containing the television set or monitor shall be gold in colour;
- (h) all the stars on the label shall be shaded in black; and
- (i) the text on the label of the television set or monitor shall be black in colour.

(2) Despite regulation 21, an update to the Standards shall take precedence over the requirements specified in paragraph (e) of subregulation (1) and the Second Schedule.

(3) Where

- (a) a side of the packaging is not large enough to contain a label and the blank border; or
- (b) a label would cover more than fifty per cent of the surface area of the largest side of a packaging,

the label and the blank border shall be reduced to not less than forty per cent of the largest side of the packaging and pasted on the largest side of the packaging.

(4) A person shall not remove the label on a television set or monitor or the packaging containing a television set or monitor before the first retail purchase of the television set or monitor.

(5) For the purposes of this regulation, "first retail purchase" means the purchase of a television set or monitor by an end user.

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Registration of Television Sets or Monitors

Appliance Energy Efficiency Register

12. (1) The Commission shall establish, keep and maintain an Appliance Energy Efficiency Register.

(2) The Appliance Energy Efficiency Register shall contain the information specified in subregulation (5) of regulation 13.

Application for registration

13. (1) A person who

- (a) manufactures a television set or monitor in the country; or
- (b) imports a television set or monitor into the country

for use in the country shall, prior to the manufacture or importation, ensure that each model of the television set or monitor is registered with the Commission.

(2) A person who

- (a) manufactures a television set or monitor in the country; or
- (b) imports a television set or monitor into the country

for use in the country shall apply to the Commission for registration of the television set or monitor.

(3) An application for registration under subregulation (2) shall be made in writing or electronically on the website of the Commission and accompanied with the prescribed fee.

(4) An application for registration shall be accompanied with a test report from an accredited test laboratory that demonstrates that

- (a) the television set or monitor meets the minimum energy performance standards set out in the Second Schedule; and
- (b) the test report corresponds to the energy consumption that is provided on the energy efficiency label of the television set or monitor.

(5) The following information shall be provided for each registration of a model of a television set or monitor:

- (a) the brand or trademark, if any, used in connection with a supply of the model;

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- (b) the model identifier issued by the manufacturer for each model covered by the registration;
- (c) the Product Information Sheet of the model;
- (d) the date the registration takes effect;
- (e) a unique identifier for the registration issued by the Commission;
- (f) the names and contact details of the applicant and contact person in relation to the registration;
- (g) if the model is to be registered as a replacement model of an earlier registered model, that fact and details to identify the replaced model, including the date the replacement was made;
- (h) if a model to be registered is affected by a replacement, that fact and details to identify the replaced model and replacement model, including the date the replacement was made;
- (i) any information specified in these Regulations in relation to that model of television set or monitor; and
- (j) any other information the Commission may consider appropriate.

Consideration of application

14. (1) The Commission shall, on receipt of an application for registration of a television set or monitor, consider the application.

(2) The Commission shall, in considering the application, have regard to the requirements specified in subregulation (5) of regulation 13.

Grant of application

15. (1) The Commission may, within fourteen days after receipt of an application, grant or refuse an application.

(2) Where the Commission decides to grant an application, the Commission shall

- (a) within three days after the date of the decision, inform the applicant, in writing or electronically as the case may be, of the decision; and
- (b) enter the information specified in subregulation (5) of regulation 13 in the Appliance Energy Efficiency Register.

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(3) Where the Commission refuses to grant an application, the Commission shall within three days after the date of the decision communicate to the applicant, in writing or electronically as the case may be,

- (a) the reason for the refusal; and
- (b) the applicable Standards the model of the television set or monitor is required to meet.

Duties of Dealers and Suppliers of Television Sets or Monitors

Duty of dealer to keep, maintain and provide technical documentation

16. (1) A dealer shall keep and maintain technical documentation in respect of a television set or monitor for a period of not less than two years after the date of manufacture or importation.

(2) A dealer shall, within two days after a request by an enforcement authority, provide the enforcement authority with technical documentation in respect of a television set or monitor for inspection.

(3) Where a dealer fails to provide technical documentation in respect of a television set or monitor within two days after the request, the enforcement authority shall detain the television set or monitor.

(4) A dealer shall ensure that

- (a) each television set or monitor, at the point of sale, including at trade fairs, bears the label provided by a supplier in accordance with regulation 3, with the label being displayed conspicuously on the face of the television set or monitor;
- (b) in the event of distance selling, the label and Product Information Sheet are provided in accordance with the Third and Fourth Schedules;
- (c) an audio advertisement, including radio and local information broadcast network, on a specific model of a television set or monitor where the brand, size, category or price is mentioned, contains information on the energy efficiency class and the range of efficiency classes available in accordance with Part Five of the Fourth Schedule;
- (d) a visual advertisement for a specific model of a television set or monitor, including an advertisement on the internet contains information on the energy efficiency class and the

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- range of energy efficiency classes of the television set or monitor available on the label, in accordance with Part Five of the Fourth Schedule; and
- (e) a technical promotional material concerning a specific model of television set or monitor, including technical promotional material on the internet, which describes the specific technical parameters of the television set or monitor includes
- (i) the energy efficiency class of that model; and
 - (ii) the range of energy efficiency classes available on the label
- in accordance with Part Five of the Fourth Schedule.

Duty of supplier to keep, maintain and provide technical documentation

17. (1) A supplier shall keep and maintain technical documentation in respect of each model of a television set or monitor for a period of not less than two years after the date of manufacture or importation.

(2) A supplier shall, on request by an enforcement authority, provide the enforcement authority with the technical documentation of the television set or monitor for inspection.

(3) Where a supplier fails to provide technical documentation in respect of a television set or monitor within two days after the request, the enforcement authority shall detain the television set or monitor.

Duty of supplier to keep, maintain and provide Product Information Sheet

18. (1) A supplier shall keep and maintain in the possession of the supplier a Product Information Sheet in respect of each television set or monitor in the form set out in Part One of the Fourth Schedule.

(2) A supplier shall, on request by an enforcement authority, provide the enforcement authority with a Product Information Sheet which shall be in the

- (a) English language; and
- (b) form set out in Part One of the Fourth Schedule.

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Duty of supplier to provide information for statistical purposes

19. (1) A person who manufactures in the country, imports into the country or exports out of the country a television set or monitor or an assembly of components that incorporates a television set or monitor, shall provide the Commission with the following information not later than four months after the end of each year:

- (a) the number of television sets or monitors of each model that the person manufactured, exported or imported into the country in the relevant year;
- (b) the number of television sets or monitors of each model that the person sold in the country in the relevant year;
- (c) the number of television sets or monitors of each model that the person exported from the country in the relevant year;
- (d) the name of each model that the person discontinued
 - (i) manufacturing in the relevant year;
 - (ii) exporting in the relevant year; or
 - (iii) importing in the relevant year; and
- (e) a copy of any existing test report, or other energy performance data specified by the Commission, for each model specified under paragraph (d).

(2) Upon a written request by the Commission, a person who manufactures a television set or monitor for use in the country or imports a television set or monitor into the country shall provide the following information to the Commission not later than forty days after receiving the request:

- (a) the number of television sets or monitors in each product class specified by the Commission that the person sold to a purchaser in the country in each of the preceding three years; and
- (b) the energy performance characteristics of the television set or monitor as specified in the request.

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Duty of supplier to ensure accuracy of information

20. (1) A supplier shall ensure that the information indicated on a
- (a) Product Information Sheet; or
 - (b) label

in respect of a television set or monitor is accurate.

(2) The duty imposed on a supplier under subregulation (1) does not affect any other right of action which a person may have by law against a person with respect to the inaccuracy of information on a Product Information Sheet or on a label.

Access to information on technical documentation and Product Information Sheet

21. (1) The information required under regulations 10, 11, 16, 17 and 18 shall be obtained in accordance with the test procedures required by the Standards.

(2) Information obtained in a manner other than in accordance with subregulation (1) shall, for the purposes of these Regulations, be invalid.

Product brochure in respect of television set or monitor

22. Where a supplier provides a product brochure in respect of a television set or monitor, the brochure shall contain a Product Information Sheet which shall be in the

- (a) English language; and
- (b) form set out in Part One of the Fourth Schedule.

Information

Public information

23. (1) The information provided by a supplier on the Product Information Sheet or on a label of a television set or monitor is deemed public information.

(2) A supplier is deemed to have consented to the publication of the information indicated on a Product Information Sheet or on a label in respect of a television set or monitor.

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Information in respect of mail order and other distance selling

24. (1) Where a person offers a television set or monitor for sale to another person in the country through a medium of communication including a mail order or any other distance selling medium, that person shall provide information in respect of the television set or monitor.

(2) The information referred to in subregulation (1), shall

- (a) be in the English language;
- (b) include the product registration number assigned by the Commission upon registration in the Appliance Energy Efficiency Register;
- (c) include the information set out in Part Four of the Fourth Schedule; and
- (d) be written in a manner that is legible.

Obligations of audio or audio-visual broadcasting service provider

25. Where an audio or audio-visual broadcasting service provider advertises a television set or monitor, and the information in the advertisement includes the brand, model, size, price and any other information that is specific to a particular model, that service provider shall ensure that

- (a) the advertisement has been vetted and approved by the Commission; and
- (b) the advertisement includes
 - (i) information on the energy efficiency star rating of the television set or monitor;
 - (ii) a statement that the advertisement has been vetted and approved by the Commission; and
 - (iii) any other information required under Part Five of the Fourth Schedule;

Obligations of e-commerce platform

26. (1) A person shall not offer for sale, sell, supply, distribute or otherwise dispose of a television set or monitor through a promotion on the internet unless

- (a) the energy efficiency rating of the television set or monitor is posted next to the price of the television set or monitor; and

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- (b) the label of the television set or monitor is made available to consumers in the same medium of communication.
- (2) Where an e-commerce service provider allows the direct sale of a television set or monitor through the website of the service provider, the service provider shall
 - (a) enable the display of the
 - (i) electronic label; and
 - (ii) electronic Product Information Sheetprovided by the dealer on the display mechanism in accordance with Part Six of the Fourth Schedule; and
 - (b) inform the dealer of the obligation to display the electronic label and electronic Product Information Sheet.

Misleading information

27. (1) A person shall not display a label, mark, symbol or inscription which relates to the energy consumption of a television set or monitor, if the display is likely to be
- (a) deceptive;
 - (b) misleading; or
 - (c) false.
- (2) A person shall not broadcast an advertisement relating to the energy performance of a television set or monitor if the information in the advertisement is likely to be
- (a) deceptive;
 - (b) misleading; or
 - (c) false.
- (3) Subregulations (1) and (2) do not apply to
- (a) a label;
 - (b) a mark;
 - (c) a symbol; or
 - (d) an inscription
- displayed under an environmental labelling scheme or endorsement labelling scheme.

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Restriction on disclosure of information

28. (1) An enforcement authority shall not disclose information which consists of a

- (a) secret manufacturing process; or
- (b) trade secret

that was obtained by that enforcement authority in the course of the exercise of a power or duty conferred on the enforcement authority by these Regulations.

(2) Despite subregulation (1), an enforcement authority may disclose information if

- (a) the information is public information; or
- (b) the disclosure is made
 - (i) for the purpose of facilitating the exercise of power by an enforcement authority under these Regulations or any other enactment;
 - (ii) in connection with the investigation of an offence; or
 - (iii) for the purpose of a civil or criminal proceeding.

Powers of Enforcement

Power of enforcement authority to require technical documentation

29. Where an enforcement authority suspects that the information given

- (a) in a Product Information Sheet; or
- (b) on a label,

in respect of a television set or monitor is incorrect, that enforcement authority may, by notice served on the supplier or importer of the television set or monitor, require the supplier or importer to furnish the enforcement authority with the technical documentation referred to in regulation 10 within the period stipulated in the notice.

Power of enforcement authority to inspect television set or monitor

30. An enforcement authority may, at any reasonable time, enter any premises to inspect a television set or monitor if the enforcement authority has reason to believe that the premises are being used for a purpose in contravention of these Regulations.

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Power of enforcement authority to detain or seize record, television set or monitor

31. (1) Subject to these Regulations, where an enforcement authority has reasonable cause to suspect that an offence has been committed or is being committed, that enforcement authority may

- (a) at any reasonable time enter premises other than a dwelling place, and conduct an inspection in accordance with subsection (3) of section 52 of the Act;
- (b) require a person engaged in a business or employed in connection with a business to produce a record in respect of a television set or monitor;
- (c) detain or seize a television set or monitor that is
 - (i) not labelled;
 - (ii) not properly labelled; or
 - (iii) labelled in a deceptive or misleading manner;
- (d) detain or seize a television set or monitor that is imported without technical documentation which justifies the label affixed on the television set or monitor;
- (e) detain or seize a television set or monitor to enable tests to be carried out;
- (f) detain or seize a record to be used as evidence in proceedings in respect of an offence under these Regulations;
- (g) cause a container to be opened for the purpose of inspection;
- (h) break open a container, where implementation of paragraph (g) is not practicable; or
- (i) detain or seize a television set or monitor if the model is not registered in the Appliance Energy Efficiency Register.

(2) For the purposes of paragraphs (b) and (f) of subregulation (1), the enforcement authority may request for information stored electronically to be made available to the enforcement authority in printed form.

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Power of enforcement authority to test television set or monitor

32. (1) An enforcement authority may

- (a) obtain, remove and test a television set or monitor; or
- (b) order the testing of a television set or monitor

to ascertain whether a provision of these Regulations has been contravened.

(2) A person who suspects that a television set or monitor offered for sale does not comply with the provisions of these Regulations may lodge a complaint with an enforcement authority.

(3) The enforcement authority may, upon receipt of a complaint under subregulation (2), detain and test the television set or monitor.

(4) The test to be conducted in respect of a television set or monitor purchased, obtained or detained under regulation 31 shall be carried out in accordance with the test procedures required by the Standards.

Detention, Re-Exportation and Seizure

Procedure for market surveillance and verification

33. (1) Despite regulation 32, the Commission and the Standards Authority shall conduct market surveillance to ascertain whether a television set or monitor on the market conforms to these Regulations.

(2) The Commission and the Standards Authority shall apply the verification procedure specified in the Fifth Schedule to conduct the market surveillance.

Order to access premises to inspect, detain or seize television set, monitor or record

34. Where

- (a) an enforcement authority is refused entry to premises;
- (b) a notification to enter premises would defeat the purpose of the entry;
- (c) the premises to be entered are unoccupied; or
- (d) the occupier of the premises to be entered is temporarily absent

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the enforcement authority may apply to a court for an order to enter the premises to inspect, detain or seize a television set, monitor or record, if the enforcement authority has reasonable grounds to believe that a television set, monitor or record on the premises may assist in the disclosure of evidence of the commission of an offence under these Regulations.

Procedure for detention of television set or monitor

35. (1) An enforcement authority that exercises a power of detention under these Regulations shall, immediately give a written notice to the person against whom the power has been exercised.

(2) The written notice shall state

- (a) the television set or monitor that has been detained; and
- (b) the reason for the detention.

(3) Where an enforcement authority detains a television set or monitor, that television set or monitor may be kept in a warehouse or other secure location reserved for the purpose.

Procedure for re-labelling of detained television set or monitor

36. (1) Subject to these Regulations, where an enforcement authority detains a television set or monitor under paragraph (e) of subregulation (1) of regulation 31, the enforcement authority shall

- (a) within two days after the detention, submit a sample of the television set or monitor for testing; and
- (b) within two days after receipt of the test results, give a notice in writing to the supplier of the television set or monitor to properly label the television set or monitor if the minimum energy performance standards have been complied with.

(2) The notice under paragraph (b) of subregulation (1) shall require a television set or monitor to be re-labelled in the required manner or exported out of the country within twenty-eight days.

(3) Where a supplier is required under subregulation (2), to re-label a television set or monitor, the supplier shall re-label the television

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set or monitor under the supervision of an officer authorised for the purpose by the Commission or the Standards Authority.

- (4) Where a supplier fails to
- (a) re-label the television set or monitor; or
 - (b) export the television set or monitor

within twenty-eight days after the notice given under paragraph (b) of subregulation (1), the Commission shall, in consultation with the Standards Authority, destroy the television set or monitor in a manner that the Commission may determine.

Procedure for re-exportation of imported television set or monitor

37. (1) An enforcement authority that exercises a power of detention or seizure under these Regulations shall, within seven days after the detention or seizure, give an order in writing to the person against whom the power has been exercised to re-export the television set or monitor.

- (2) The order referred to in subregulation (1) shall state
- (a) the television set or monitor to be re-exported;
 - (b) the reason for the order;
 - (c) the period within which the television set or monitor is to be re-exported; and
 - (d) the fact that the supplier shall be responsible for the cost associated with the re-export.

(3) Where a television set or monitor is kept within premises that are under the control of the owner of the television set or monitor, the owner shall pay a security deposit against any breach of the re-exportation order.

(4) A security deposit under subregulation (3) shall be forfeited in the event of a breach of the re-exportation order, including the sale or destruction of a television set or monitor which has been ordered to be re-exported.

(5) Where a person fails to pay a security deposit imposed under subregulation (3), the Commission may recover the amount imposed as a civil debt.

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Procedure for seizure of television set or monitor

38. (1) An enforcement authority that exercises a power of seizure under these Regulations shall, within seven days after the seizure, give a written notice to the person against whom the power has been exercised.

(2) The written notice under subregulation (1) shall state

(a) the television set or monitor that has been seized;

(b) the reason for the seizure; and

(c) the venue and the period within which a petition against the seizure may be brought under regulation 39.

(3) Where an enforcement authority seizes a television set or monitor, that television set or monitor may be kept in a warehouse or other secure location reserved for the purpose.

(4) The owner of the television set or monitor may be required to pay a deposit to cover the cost of destruction, if the television set or monitor does not meet the minimum energy performance standards.

(5) Where a television set or monitor is kept within premises that are under the control of the owner of the television set or monitor, the owner shall pay a security deposit against any breach of the seizure order.

(6) A security deposit under subregulation (5) shall be forfeited in the event of a breach of the seizure order, including the sale or destruction of a television set or monitor which has been seized.

(7) Where a person fails to pay a security deposit imposed under subregulation (5), the Commission may recover the amount imposed as a civil debt.

Petition and Compensation

Petition against seizure

39. (1) Subject to these Regulations, a person whose television set or monitor is seized may, within seven days after receipt of the written notice specified in subregulation (1) of regulation 38, petition the Executive Secretary for the release of the seized television set or monitor.

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(2) The Executive Secretary shall, within seven days after the receipt of a petition under subregulation (1),

(a) confirm the seizure; or

(b) order the release of the seized television set or monitor to the petitioner on a specific day.

(3) A person who is dissatisfied with a decision of the Executive Secretary under subregulation (2) may appeal to the Board within seven days after the receipt of the decision.

(4) The Board shall within thirty days after the receipt of an appeal under subregulation (3),

(a) consult the Standards Authority; and

(b) take a decision on the appeal.

(5) The Board may release the seized television set or monitor to the petitioner only if the Commission and the Standards Authority fail to prove that an offence under these Regulations has been committed.

(6) A person who is dissatisfied with

(a) a decision of the Board under subregulation (4) may, within fourteen days after the decision; or

(b) the failure of the Board to make a decision within thirty days after receipt of the appeal may, within fourteen days after the failure

apply to the court.

Forfeiture and destruction of seized television set or monitor

40. (1) Where an appeal to the Board under subregulation (3) of regulation 39 is not successful, the enforcement authority shall, within twenty-eight days after the decision of the Board, notify the owner of the television set or monitor of the forfeiture and date of destruction of the seized television set or monitor.

(2) The Commission may, in consultation with the Standards Authority, destroy a forfeited television set or monitor in a manner that the Commission may determine.

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(3) Where under subregulation (6) of regulation 39, the court upholds or affirms the decision of the Board to forfeit and destroy the television set or monitor, the Commission shall destroy the television set or monitor within the period given by the court.

Compensation for loss of television set, monitor or record seized

41. (1) Where an enforcement authority exercises power under these Regulations to seize a television set, monitor or record, that enforcement authority is liable to pay compensation to the owner of the television set, monitor or record for any loss or damage caused by the exercise of the power, if

- (a) these Regulations have not been contravened in relation to the television set, monitor or record; and
- (b) the loss or damage is not attributable to the neglect or the fault of the owner but an official of the Commission.

(2) Paragraph (b) of subregulation (1) does not apply in a case of *force majeure*.

(3) The compensation payable under subregulation (1) for a loss or damage shall not exceed the value of the television set, monitor or record.

(4) A dispute as to the

- (a) right to compensation; or
- (b) amount of compensation payable to a person under subregulation (1),

shall be determined in the first instance by arbitration in accordance with the Alternative Dispute Resolution Act, 2010 (Act 798).

Recovery of expenses by enforcement authority

42. (1) Where an enforcement authority

- (a) seizes;
- (b) tests; or
- (c) supervises the re-labelling or destruction of

a television set or monitor, that enforcement authority may surcharge the dealer or supplier of the television set or monitor for the expenses incurred for the seizure, testing or supervision.

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(2) Despite subregulation (1), where a court convicts a person of an offence in respect of the contravention of a provision of these Regulations, the court may, in addition to any order that the court may make as to costs and expenses, order the person convicted to reimburse the enforcement authority for the expenditure incurred by the enforcement authority in connection with the seizure.

Miscellaneous Provisions

Offences and penalties

43. (1) A person who

- (a) manufactures, imports, offers for sale, sells, stores, advertises, distributes or otherwise disposes of a television set or monitor that
 - (i) does not meet a requirement in respect of the minimum energy performance standards contrary to regulation 3;
 - (ii) is not accompanied by the required technical documentation contrary to regulation 10;
 - (iii) is not labelled or properly labelled contrary to regulation 11; or
 - (iv) is labelled in a deceptive or misleading manner contrary to regulation 27;
- (b) uses a circumvention device contrary to regulation 9;
- (c) fails to comply with a labelling requirement contrary to regulation 11;
- (d) fails to provide technical documentation contrary to regulation 10, 16 or 17;
- (e) fails to register a model of a television set or monitor contrary to regulation 13;
- (f) fails to provide a Product Information Sheet contrary to regulation 18;
- (g) fails to provide information on a television set or monitor contrary to regulation 19;

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- (h) provides inaccurate information contrary to regulation 20;
- (i) advertises a television set or monitor without providing accurate information on the energy efficiency star rating of the television set or monitor and the range of efficiency of the television set or monitor available contrary to regulation 25;
- (j) offers for sale or sells a television set or monitor over the internet or other distance selling medium without providing the information required contrary to regulation 24 or 26;
- (k) provides misleading information contrary to regulation 27;
- (l) obstructs or interferes with an enforcement authority in the exercise of the powers of that enforcement authority contrary to regulation 31;
- (m) fails to comply with the requirements for re-labelling contrary to regulation 36; or
- (n) violates a seizure order or notice contrary to regulation 38

commits an offence and is liable on summary conviction to a fine of not less than one hundred and twenty-five penalty units and not more than two hundred and fifty penalty units or to a term of imprisonment of not less than six months and not more than twelve months or to both.

(2) A person who commits a second or subsequent offence under subregulation (1) after an earlier conviction under subregulation (1) is liable on summary conviction to a fine of not less than two hundred and fifty penalty units and not more than five hundred penalty units or to a term of imprisonment of not less than twelve months and not more than twenty-four months or to both.

(3) Where an offence under these Regulations is committed by a body corporate or by a member of a partnership or other firm, every director or officer of that body corporate or any member of the partnership or any other person concerned with the management of the firm shall be deemed to have committed that offence and is liable, on summary conviction, to a fine of not less than five hundred penalty units and not more than one thousand penalty units, and is in addition liable to the payment of compensation for the damage resulting from the breach.

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- (4) A person shall not be convicted of an offence under subregulation (3), if it is proved that
- (a) the person exercised due diligence to secure compliance with the provisions of these Regulations; and
 - (b) the offence was committed without the knowledge, consent or connivance of the person.

Interpretation

44. In these Regulations, unless the context otherwise requires,

“accredited test laboratory” means a test laboratory that is recognised by the Standards Authority for laboratory testing and product certification;

“appliance” means a device or machine for performing a specific task;

“Appliance Energy Efficiency Register” means an official record, kept and maintained by the Commission on energy efficiency information in respect of models of electrical appliances that have been certified by the Commission and Standards Authority for use in Ghana;

“audio or audio-visual broadcasting service provider” means a person who provides a service which delivers radio programmes or programmes with hearing and sight components to persons with equipment appropriate for receiving that service, whether the delivery is effected by means of or uses the radio frequency spectrum, cable, optical fibre, satellite, internet radio via streaming media on the internet, or any other means or a combination of those means intended to reach a wide audience;

“circumvention device” means any control, control device, software, component or part that alters the operating characteristics of a television set or monitor during any test procedure, resulting in measurements that are unrepresentative of the true characteristics of the television set or monitor that may occur during normal use under comparable conditions;

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- “container” means a receptacle or enclosure for holding a product for storage, packaging and shipping;
- “court” means a court of competent jurisdiction;
- “dealer” means a retailer or other person who displays, offers for sale or sells a television set or monitor to an end user;
- “default” referring to a specific feature or setting, means the value of a specific feature as set at the factory and available when the customer uses the product for the first time and after performing a “reset to factory settings” action, if allowed by the product;
- “distance selling” means the sale of goods or services without the buyer and seller being physically present simultaneously;
- “electric-mains operated television set or monitor” means a television set or monitor that operates on electricity supply from the grid of 230 ($\pm 10\%$) volt of alternating current at 50 Hz;
- “electronic display” means a display screen and associated electronics that, as its primary function, displays visual information from wired or wireless sources;
- “electronic Product Information Sheet” means a document containing the following information in electronic format:
- (a) basic product information;
 - (b) energy label information; and
 - (c) special features and characteristics;
- “end user” means the first user of a television set or monitor;
- “endorsement labelling scheme” includes a voluntary labelling scheme that guarantees the performance standards of the television set or monitor, that are equal to or exceed the minimum threshold established by a recognised advisory body;
- “energy efficiency rating” means the ratio of the lighting service time to the effective power input for a set of rating conditions specified in the Standards;

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“enforcement authority” means

- (a) an authorised officer of the Commission;
- (b) an authorised officer of the Standards Authority;
- (c) an authorised officer of the Customs Division of the Ghana Revenue Authority;
- (d) an authorised officer of the Police Service; or
- (e) any other authorised person designated by the Customs Division of the Ghana Revenue Authority, the Commission or the Standards Authority to carry out inspections for the purposes of these Regulations;

“environmental labelling scheme” means a voluntary labelling scheme that provides detailed information on the environment in respect of the performance characteristics of a television set or monitor;

“equivalent model” means a model which has the same technical characteristics relevant for the technical information to be provided, but which is placed on the market or put into service by the same manufacturer, importer or authorised representative as another model with a different model identifier;

“forced menu” means a set of television settings pre-defined by a manufacturer, of which the user of the television is to select a particular setting upon the initial start-up of the television;

“gesture detection sensor” means a sensor monitoring and reacting to movement in the space around a television set or monitor where

- (a) the signal of the gesture detecting sensor can trigger the switching of the television set or monitor to on-mode; and
- (b) lack of movement detection by the gesture detecting sensor for a predetermined time can switch the television set into standby mode or networked standby mode;

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“GS” means Ghana Standards;

“home-mode” means the television setting which is recommended by the manufacturer for normal home use;

“importer” means a person who places a television set or monitor from a foreign country on the Ghanaian market and supplies that television set or monitor for use;

“information or status display” means a continuous function providing information or indicating the status of the equipment on a display, including clocks;

“label” means a material attached to a television set or monitor the inscription of which contains information on the energy consumption of the television set or monitor;

“luminance” means the photometric measure of the luminous intensity per unit area of light travelling in a given direction, expressed in units of candelas per square meter (cd/m^2);

“minimum energy performance standards” mean a set of procedures and regulations that prescribe the minimum allowable values of energy efficiency or energy performance of manufactured products;

“model identifier” means the code, usually alphanumeric, which distinguishes a specific product model from other models with the same trademark or the same name of the manufacturer, importer or authorised representative of the manufacturer;

“monitor” means an electronic display intended for close viewing such as in a desk based environment;

“occupancy sensor” means a gesture detecting device;

“off-mode” means the power demand level in the low power mode which cannot be switched off or influenced by a user, other than through the movement of a mechanical switch, and which may persist for an indefinite period of time when

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the appliance is connected to the main electricity supply and used in accordance with the instructions of the manufacturer;

“on-mode” means the condition where the television set or monitor is connected to the mains power source and produces sound and picture;

“organic light emitting diode” means a technology in which light is produced from a solid state device embodying a p-n junction of organic material which emits optical radiation when excited by electric current;

“p-n junction” means a boundary or interface between two types of semi-conductor materials, p-type and n-type inside a single crystal of semi-conductor;

“premises” means land and any building, store, shop, apartment, or other structure on the land used for the storage of a television set or monitor;

“product brochure” includes a pamphlet or booklet that contains introductory information about a product;

“Product Information Sheet” means a standard table of information related to a television set or monitor;

“Quick Response Code” means a matrix barcode included on the energy label of a product model that links to the information of the model in the public part of the product database;

“rated voltage” means the voltage marked on a television set or monitor in volts;

“rating plate” means a name plate that indicates the measurable performance capability of a television set or monitor;

“reactivation function” means a function facilitating the activation of other modes including on-mode, by remote switch including remote control, internal sensor or timer to a condition providing additional functions, including on-mode;

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“receiver” means a tuner;

“record” includes a book, document, label, mark, symbol, inscription or information in electronic form;

“room presence sensor” means a gesture detection device;

“sale” means the exchange of a product for consideration including hire purchase, credit sale and purchase by instalment;

“Standards” means quality specifications for television sets or monitors as stipulated in the First Schedule;

“Standards Authority” means the Standards Authority established under the Standards Authority Act, 1973 (N.R.C.D. 173);

“standby-mode” means a condition where the television set or monitor is connected to the mains power source, depends on energy input from the mains power source to function properly and offers the following functions only, which may persist for an indefinite time:

(a) reactivation function;

(b) reactivation function and only an indication of enabled reactivation function; or

(c) information or status display;

“status display” means a display used to show simple but changing information such as selected channel, time or power consumption, excluding a simple light indicator;

“supplier” means a person or organisation that provides a product including,

(a) a manufacturer or the authorised representative of a manufacturer resident in the country; and

(b) an importer or the person who introduces a television set or monitor on the Ghanaian market;

“supply” includes an offer to supply, contract to supply and an advertisement for supply of a television set or monitor but

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excludes the exhibition at a trade fair of a television set or monitor that is prohibited by these Regulations;

“trade secret” means a secret device or technique used by a company in manufacturing a product of the company;

“television” means a system for converting

(a) visual images with sounds into electrical signals, transmitting the visual images; and

(b) sounds by radio or other means and displaying the visual images and sounds electronically on a screen;

“television set” means a product designed primarily for the display and reception of audiovisual signals which is placed on the market under one model or system designation which consists of

(a) a display; and

(b) a tuner, receiver, and optional additional functions for

(i) data storage;

(ii) display;

(iii) digital versatile disc;

(iv) hard disk drive; and

(v) videocassette recorder, either in a single unit combined with the display, or in one or more separate units;

“tuner” means an electronic circuit that detects television broadcast signal, such as terrestrial digital or satellite, but not internet unicast, and facilitates the selection of a television channel from a group of broadcast channels;

“wattage” means the power marked on a television set or monitor, in watts (W); and

“year” means the period from 1st January to 31st December.

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Transitional provision

45. A person who, before the coming into force of these Regulations, has

- (a) manufactured in the country; or
- (b) imported into the country

a television set or monitor that does not comply with these Regulations, shall, within one year after the coming into force of these Regulations, sell, distribute, donate or otherwise dispose of that television set or monitor.

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SCHEDULES

FIRST SCHEDULE

STANDARDS

(regulations 1(a)(i), 3(1)(b)(i) and 44)

1. GS IEC 62087-3:2015 Audio, video, and related equipment – Determination of power consumption – Part Three: Television sets
2. GS IEC 62087-3:2015 Audio, video, and related equipment – Determination of power consumption – Part Two: signals and media
3. GS IEC 62087-1:2015 Audio, video, and related equipment – Determination of power consumption – Part One: General
4. GS IEC 62087-7:2018 Audio, video, and related equipment – Determination of power consumption – Part Seven: monitors

Notes:

- (a) Measurements and calculations shall meet the technical definitions, conditions, equations and parameters set out in the Second Schedule.
- (b) Electronic displays which can operate in both 2D and 3D modes shall be tested when they operate in 2D mode.
- (c) An electronic display which is split into two or more physically separate units, but placed on the market in a single package, shall, for the purposes of checking the conformity with the requirements of this Schedule, be treated as a single electronic display. Where multiple electronic displays that can be placed on the market separately are combined in a single system, the individual electronic displays shall be treated as single displays.

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SECOND SCHEDULE

MINIMUM ENERGY PERFORMANCE STANDARDS
(regulations 1(a)(i), 1(b), 3(1)(b)(ii), 4(1)(a) and (b), 6, 11(1) (e) (v),(vii), 11(2) and 13(4)(a))

PART ONE

(regulations 1(b), 3(1)(b)(ii) and 6)

Energy Efficiency Star Rating of a Television set or monitor

The Energy Efficiency Rating of a television set or monitor appliance is based on the Energy Efficiency Index (EEI), which is derived from calculations set out in Part Two of this Schedule.

An appliance shall be rated as *7-Star to 1-Star* where the Energy Efficiency Index is within the ranges specified in Table 1.

Table 1: Proposed Energy Efficiency Star Rating

“Energy Efficiency Star Rating”	Energy Efficiency Index (EEI)
7 – Star	EEI<0.30
6 – Star	0.30 ≤ EEI<0.40
5 – Star	0.40 ≤ EEI<0.50
4 – Star	0.50 ≤ EEI<0.60
3 – Star	0.60 ≤ EEI<0.75
2 – Star	0.75 ≤ EEI<0.90
1 – Star	0.90 ≤ EEI

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PART TWO

Calculations and Measurements

- (1) The energy efficiency index (EEI) for an appliance under these Regulations, shall be calculated using the following formula:

$$EEI = \frac{P_{\text{measured}} + 1}{3 \times 90 \times \tanh[0.025 + .0035 \times (A - 11) + 4] + 3}$$

where:

- A = the viewing surface area of the appliance in dm²;
 P_{measured} = the measured power in on-mode (in Watts) in the normal configuration and set as indicated in Table 2;

Table 2: Measurement of P_{measured}

Dynamic Range level	P _{measured}
Standard Dynamic Range (SDR): P _{measuredSDR}	Power demand in Watts (W) in on-mode, measured when displaying standardised test sequences of moving picture from dynamic broadcast content. Where allowances are applicable according to paragraph 2 of this Part, they should be deducted from the P _{measured} .
High Dynamic Range (HDR) P _{measuredHDR}	Power demand in Watts (W) in-on mode, measured as for P _{measuredSDR} but with the HDR functionality activated by metadata in the standardised HDR test sequences. Where allowances are applicable according to paragraph 2 of this Part, they should be deducted from P _{measured} .

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- (2) Allowances and adjustments for the purpose of the energy efficiency index calculation for an appliance with automatic brightness control (ABC) shall qualify for a 10 % reduction in P_{measured} if they meet all of the following requirements:
- (a) ABC is enabled in the normal configuration of the electronic display and persists in any other standard dynamic range configuration available to the end user;
 - (b) the value of P_{measured} , in the normal configuration, is measured, with ABC disabled or if ABC cannot be disabled, in an ambient light condition of 100 lux measured at the ABC sensor;
 - (c) if applicable, the value of P_{measured} with ABC disabled shall be equal to or greater than the on-mode power measured with ABC enabled in an ambient light condition of 100 lux measured at the ABC sensor;
 - (d) with ABC enabled, the measured value of the on-mode power must decrease by 20 % or more when the ambient light condition, measured at the ABC sensor, is reduced from 100 lux to 12 lux;
 - (e) the ABC control of the display screen luminance meets all of the following characteristics when the ambient light condition measured at the ABC sensor changes:
 - the measured screen luminance at 60 lux is between 65 % and 95 % of the screen luminance measured at 100 lux;
 - the measured screen luminance at 35 lux is between 50 % and 80 % of the screen luminance measured at 100 lux;
 - the measured screen luminance at 12 lux is between 35 % and 70 % of the screen luminance measured at 100 lux.

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(3) On-mode energy consumption per 1000hrs of operation(AC_{om})

- (a) The energy consumption in on-mode (EC_{OmSDR}) measured in kWh when playing SDR content for 1000 hours is calculated using the formula

$$EC_{OmSDR} = P_{measuredSDR} \times 1000/1000$$

- (b) The energy consumption in on-mode (EC_{OmHDR}) measured in kWh when playing HDR content for 1000 hours is calculated using the formula

$$EC_{OmHDR} = P_{measuredHDR} \times 1000/1000 \text{ kWh}$$

(4) Measurement of on-mode power demand

Measurements of the on-mode power demand shall fulfil all of the following general conditions:

- (a) the appliance shall be measured in the normal configuration;
- (b) measurements shall be made at an ambient temperature of 23 °C +/- 5 °C;
- (c) measurements shall be made using a dynamic broadcast video signal test loop representing typical broadcast content for electronic displays in standard dynamic range (SDR). For the HDR measurement the electronic display appliance must automatically and correctly respond to the HDR metadata in the test loop. The measurement shall be the average power consumed over 10 consecutive minutes;
- (d) measurements shall be made after the appliance has been in the off-mode or, if an off-mode is not available, in standby mode for a minimum of one hour immediately followed by a minimum of 1 hour in the on-mode and shall be completed before a maximum of three hours in on-mode. The relevant video signal shall be displayed during the entire on-mode duration. For display appliances that are known to stabilise within one hour, these durations may be reduced if the resulting measurement can be shown to be within two per cent of the results that would otherwise be achieved using the durations described here; and

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- (e) where ABC is available, measurements shall be made with it switched off. If ABC cannot be switched off, then the measurements shall be performed in an ambient light condition of 100 lux measured at the ABC sensor.

(5) Limits to Standby or Off mode power consumption

- (a) The power consumption of an appliance in any condition providing only a reactivation function, or providing only a reactivation function and a mere indication of enabled reactivation function, shall not exceed 0.50 Watts.
- (b) The power consumption of an appliance 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 Watt.
- (c) Appliances shall have an off-mode or standby-mode, or another condition which does not exceed the applicable power consumption requirements for off-mode or standby-mode when the appliance is connected to the mains power source.
- (d) An appliance shall display an alert message before the automatic switch from on-mode to the applicable condition or modes.

(6) Automatic power-down

1. Televisions shall provide a function with the following characteristics:

- (a) After no more than four hours in on-mode following the last user interaction or a channel change, the television shall be automatically switched from on-mode to:
 - (i) standby-mode;
 - (ii) off-mode; or
 - (iii) another condition which does not exceed the applicable power consumption requirements for off-mode or standby-mode.

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(b) The function in paragraph (a) shall be set as default.

2. For television sets which consist of a display, and one or more tuners or receivers and optional additional functions for data storage or display such as digital versatile disc (DVD) or hard disk drive (HDD) in a separate unit, the provisions in paragraph 1 shall apply for the display and the separate unit individually.

(7) 'Home-Mode' for Televisions which are delivered with a Forced Menu

Televisions with forced menu on initial activation of the television shall provide a 'home-mode' in the forced menu, which shall be the default choice on initial activation of the television. If the user selects a mode other than 'home-mode' on initial activation of the television, a second selection process shall be prompted to confirm this choice.

(8) Measurements of Peak White Luminance

Measurements of the peak white luminance shall be made

- (a) with a luminance meter, detecting that portion of the screen exhibiting a full or hundred per cent white image, which is part of a 'full screen test' pattern not exceeding the average picture level (APL) point where any power limiting or other irregularity occurs; and
- (b) without disturbing the detection point of the luminance meter on the electronic display whilst switching between the normal configuration and the brightest on-mode configuration.

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THIRD SCHEDULE

THE LABEL

(regulations 3(1)(b)(iii), 11(1)(a)(i), 11(1)(d)(i) and 16(4)(b))

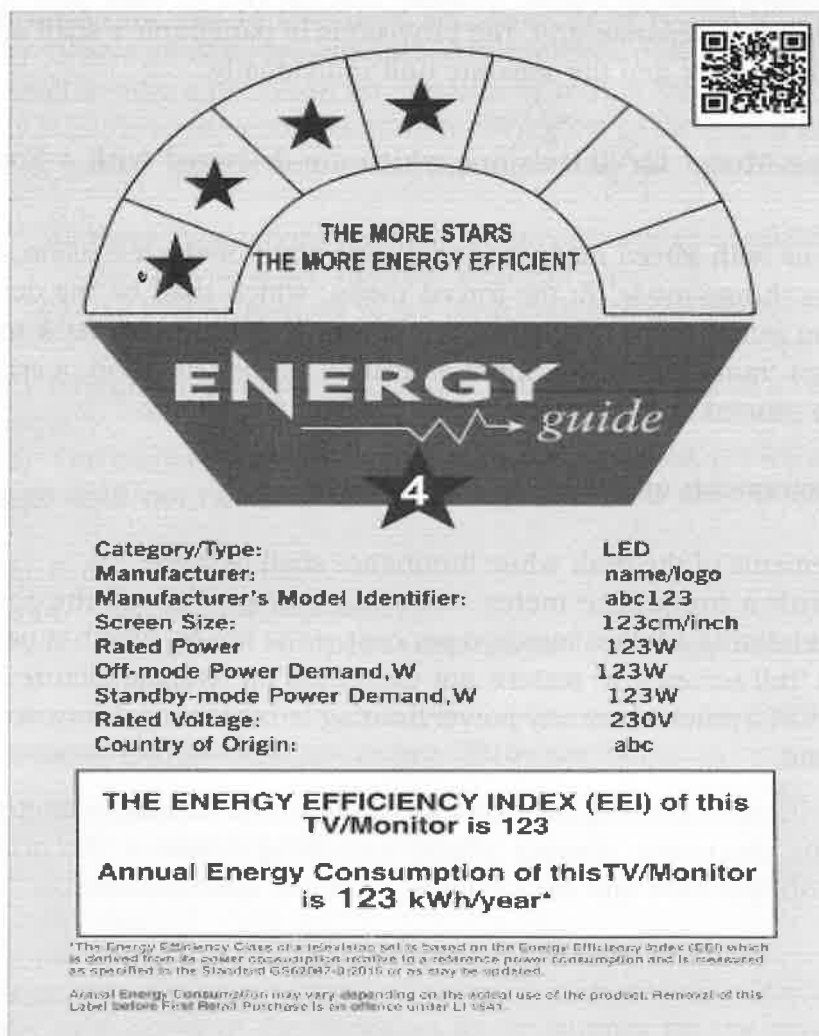


Figure 1: Label of Television set or Monitor

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2. Notes to label of a television set or monitor

The following notes define the information to be included:

- (a) the Quick Response Code;
- (b) type of television set or monitor, (CRT/LCD/LED/oLED);
- (c) the name or trademark of the manufacturer;
- (d) the Product Brand;
- (e) the model identifier of the manufacturer;
- (f) the screen size (inch/cm);
- (g) the name or trademark of the supplier;
- (h) the country of origin;
- (i) the energy efficiency star rating of appliance for Standard Dynamic Range (SDR);
- (j) the on-mode energy consumption in kWh for 1000 hrs playing in Standard Dynamic Range (EC_{OMSDR});
- (k) the energy efficiency star rating of appliance for High Dynamic Range (HDR);
- (l) the on-mode energy consumption in kWh for 1000 hrs playing in High Dynamic Range (EC_{OMHDR});
- (m) the off-mode power demand;
- (n) the standby power demand; and
- (o) the rated voltage or voltage range (marked "V" or "volts").

3. Printing

- (1) The label shall be placed on the packaging containing the television set.
- (2) Colours are to be used on the label in accordance with the following:
 - (a) All text shall be black or gold as illustrated;
 - (b) The background shall be gold;
 - (c) All Stars shall be in black; and
 - (d) Border line shall be in black.

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4. Dimensions of Labels

The dimensions of the labels are shown in Figure 2.

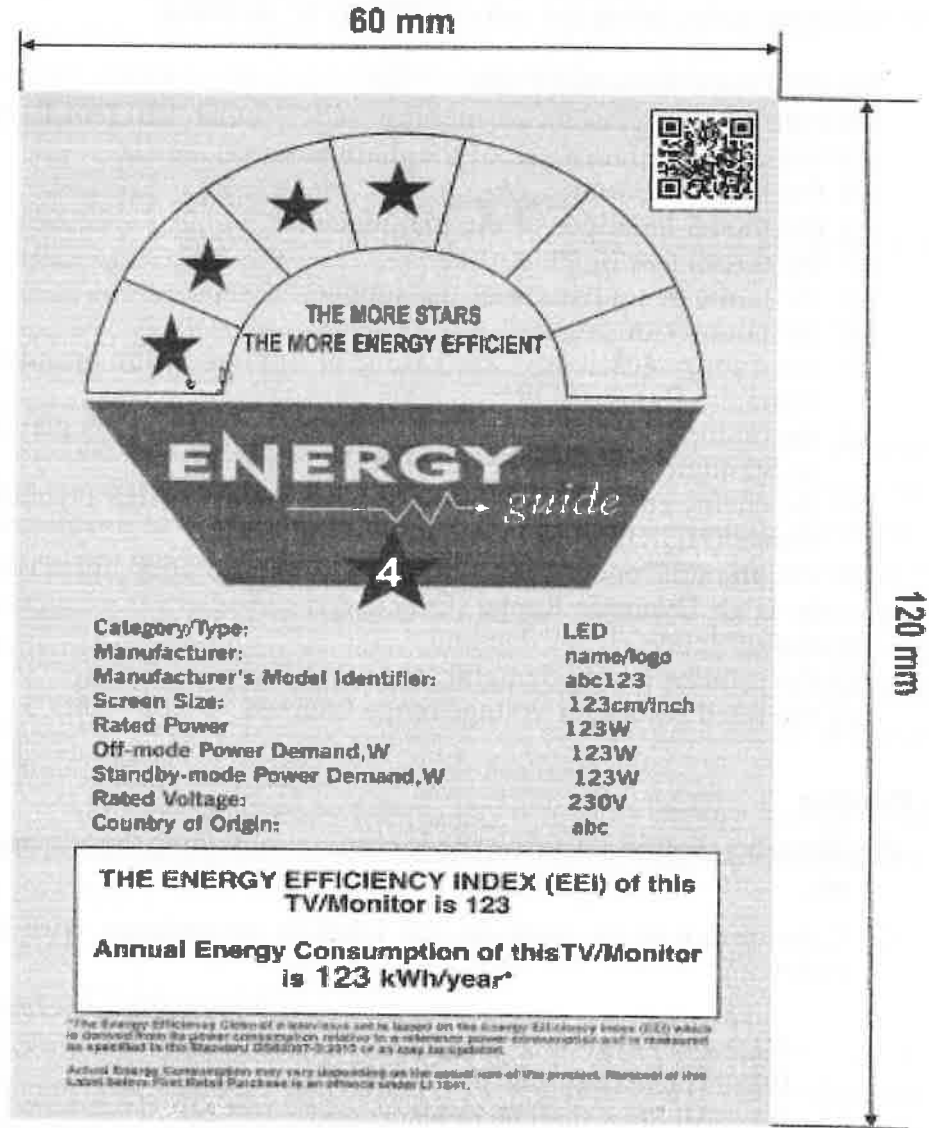


Figure 2: Label Dimensions

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FOURTH SCHEDULE

PRODUCT INFORMATION SHEET

(regulations 3(1)(b)(iv), 3(2), 5, 10(2)(b) and (c), 11(1)(c), 16(4)(b), 16(4)(c), 16(4)(d), 16(4)(e), 18(1), 18(2)(b), 22(b), 24(2)(c), 25(b)(iii) and 26(2)(a))

PART ONE

(regulations 10(2)(b), 11(1)(c), 18(1), 18(2)(b) and 22(b))

The Product Information Sheet shall contain the information specified below. The information may be given in the form of a table covering a number of television sets or monitors supplied by the same supplier, in which case it shall be given in the order specified, or given in the description of the television set.

The product manual or other literature provided with the product shall clearly indicate the link to the model in the Product Information Sheet as a human-readable Uniform Resource Locator (URL) or as QR-code or provide the product registration number.

The supplier shall enter into the Product Information Sheet the information as set out in Table 1.

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Table 1: Information, order and format of the Product Information Sheet

	Information	Value and precision	Unit	Notes
1.	Name or trade mark of the supplier	TEXT		
2.	Model identifier of the supplier	TEXT		
3.	Energy efficiency Star Rating for standard Dynamic Range (SDR)	[7-Star to 1-Star]		
4.	On mode power demand for Standard Dynamic Range (SDR)	X.X	W	Rounded to the first decimal place for power values below 100W, and rounded to the first integer for power values from 100W.
5.	Energy Efficiency Star Rating (HDR)	[7-Star to 1 Star]		Value set to 'n.a.' (not applicable) if HDR not implemented.
6.	On mode power demand in High Dynamic Range (HDR) mode	X.X	W	Rounded to the first decimal place for power values below 100W, and rounded to the first integer for power values from 100W (value set to 0 (zero) if 'not applicable').

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7.	Off mode, power demand	X.X			W	
8.	Standby mode power demand	X.X			W	
9.	Product Type	Television/ Monitor/ other:				Select one
10.	Category of Television Screen or monitor technology used	TEXT				E.g. LCD/LED LCD/QLED LCD/ OLED/MicroLED/ QDLED/SED/ FED/EPD, etc.
11.	Size ratio	X	:	Y	integer	E.g. 16:9, 21:9, etc.
12.	Screen resolution (pixels)	X	X	Y	pixels	Horizontal and vertical pixels
13.	Screen diagonal	X,X			cm	In cm according to the International System of Units (SI), rounded to the nearest decimal place.
14.	Screen diagonal	X			inches	Optional, in inches rounded to the nearest integer place.
15.	Visible screen area	X,X			cm ²	Rounded to the one decimal place
16.	Automatic Brightness Control (ABC) available	[YES/NO]				Must be activated as default (if YES).
17.	Voice recognition sensor available	[YES/NO]				

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18.	Room presence sensor available	[YES/NO]		Must be activated as default (if YES).
19.	Minimum guaranteed availability of software and firmware updates (until):	GG MM AAAA	date	As per regulation XXXX.
20.	Power supply type:	AC/DC		Select one.
	i) Input Voltage, include tolerance	TEXT		
	ii) Frequency, include tolerance	TEXT		

PART TWO

(regulation 5)

Categories of Appliance

The regulated appliances covered by these Regulations shall be divided into the categories shown in Table 2.

Table 2: Categories of Appliance

Category	Description in information sheet	
1	LCD Television set	LCD monitor
2	LED Television set	LED monitor
3	OLED	OLED monitor

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PART THREE

(regulation 10(2)(c))

Technical Documentation

1. For the purposes of conformity assessment pursuant to subregulation (3) of regulation 10, the technical documentation shall contain the following elements:

(a) test parameters for measurements:

- (i) ambient temperature;
- (ii) test voltage in V and frequency in Hz;
- (iii) total harmonic distortion of the electricity supply system;
- (iv) indicate the input terminal for the audio and video test signals; and
- (v) information and documentation on the instrumentation, set-up and circuits used for electrical testing.

(b) on-mode:

- (i) the power consumption data in Watts rounded to the first decimal place for power measurements up to 100 Watts, and to the first integer for power measurements above 100 Watts;
- (ii) the characteristics of the dynamic broadcast-content video signal representing typical broadcast TV content, (SDR or HDR);
- (iii) the sequence of steps for achieving a stable condition with respect to power consumption;

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- (iv) in addition, for televisions or monitors with a forced menu, the ratio of the peak luminance of the home-mode and the peak luminance of the brightest on-mode condition provided by the television or monitor, expressed in per cent; and
 - (v) in addition, for televisions or monitors, a description of the relevant characteristics of the tuner used for measurements.
- (c) for each standby or off-mode:**
- (i) the power consumption data in Watts rounded to the second decimal place;
 - (ii) the measurement method used;
 - (iii) description of how the mode was selected or programmed;
 - (iv) sequence of events to reach the mode where the television automatically changes modes; and
 - (v) automatic power down -
the duration of the on-mode condition before the television reaches automatically standby, or off-mode, or another condition which does not exceed the applicable power consumption requirements for off-mode or standby-mode.
- (d) hazardous substances:**
- If the television contains mercury or lead:
- (i) the content of mercury as X,X mg; and
 - (ii) the presence of lead.
- (e)** The measured technical parameters of the model and calculations performed with the measured parameters as listed in Table 3.

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Table 3. Measured technical parameters

	Value and precision	Unit	Notes
General			
1. Ambient temperature	XX,XX	°C	
2. Test voltage	X	V	
3. Frequency	X,X	Hz	
4. Total harmonic distortion (THD) of the electricity supply system	X	%	
For On-mode			
5. Peak white luminance of the brightest on-mode configuration	X	cd/m ²	
6. Peak white luminance of the normal configuration	X	cd/m ²	
7. Peak white luminance ratio (calculated)	X,X	%	Value row 6 above divided by value row 5 above times 100
For Automatic Power Down (APD)			
8. Duration of the on-mode condition, before the electronic display automatically reaches	mm:ss		

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<p>standby, or off mode, or another condition which does not exceed the applicable power consumption requirements for off-mode or standby mode.</p>	
<p>The measured value of the time before the television automatically reaches standby, or off-mode, or another condition which does not exceed the applicable power consumption requirements for off-mode or standby-mode following the last user interaction.</p>	<p>mm:ss</p>
<p>For televisions equipped with room presence sensor: the measured value of the time before the television automatically reaches standby, or off-mode, or another condition which does not exceed the applicable power consumption requirements for off-mode or standby-mode when no presence is detected.</p>	<p>mm:ss</p>

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PART FOUR

(regulation 24(2)(c))

Mail Order and Other Distance Selling Information to be provided in the cases where end-users cannot be expected to see the product displayed

1. Suppliers shall ensure that
 - (a) television sets offered for sale, hire or hire-purchase, where the end-user cannot be expected to see the television displayed, are marketed with the Product Information Sheet;
 - (b) mail order catalogues and other communication shall contain at least, the following information, given in the order specified below:
 - (i) the energy efficiency rating of the model as defined in the Second Schedule;
 - (ii) the on-mode power consumption as defined in the Second Schedule;
 - (iii) the annual power consumption in accordance with the Second Schedule; and
 - (iv) the visible screen diagonal;
 - (c) any advertisement for a specific television model contains the energy efficiency rating, if the advertisement discloses energy-related or price information and shall appear in the order described in paragraph (b); and
 - (d) any technical promotional material concerning a specific television model, which describes its specific technical parameters, includes the energy efficiency rating of that model.
2. The size and font in which all the information referred to in this Part is printed or shown shall be legible.

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PART FIVE

(regulations 3(2), 16(4)(c), 16(4)(d), 16(4)(e) and 25(b)(iii))

Information to be provided in audio advertisements, visual advertisements, in technical promotional material, in distance selling, except distance selling on the internet

1. In audio advertisements, for the purposes of ensuring conformity with the requirements laid down in subregulation (2) of regulation 3, the energy efficiency class of the model of appliance being advertised and the range of energy efficiency classes available on the market shall be stated in the advertisement.
2. In visual advertisements, for the purposes of ensuring conformity with the requirements laid down in subregulation (2) of regulation 3, the energy efficiency class and the range of energy efficiency classes available on the label shall be shown as set out in paragraph 5 of this Part.
3. In technical promotional material, for the purposes of ensuring conformity with the requirements laid down in subregulation (2) of regulation 3, the energy efficiency class and the range of energy efficiency classes available on the label shall be shown as set out in paragraph 5 of this Part.
4. Any paper-based distance selling must show the energy efficiency class and the range of energy efficiency classes available on the label as set out in paragraph 5 of this Part.
5. The energy efficiency class and the range of energy efficiency classes shall be shown, as indicated in Figure 1, with:
 - (a) an arrow, containing the letter of the energy efficiency class in hundred per cent white, Calibri Bold and in a font size at least equivalent to that of the price, when the price is shown;

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- (b) the colour of the box in gold;
- (c) the range of available energy efficiency classes in hundred per cent black; and
- (d) the size such that the box is clearly visible and legible.

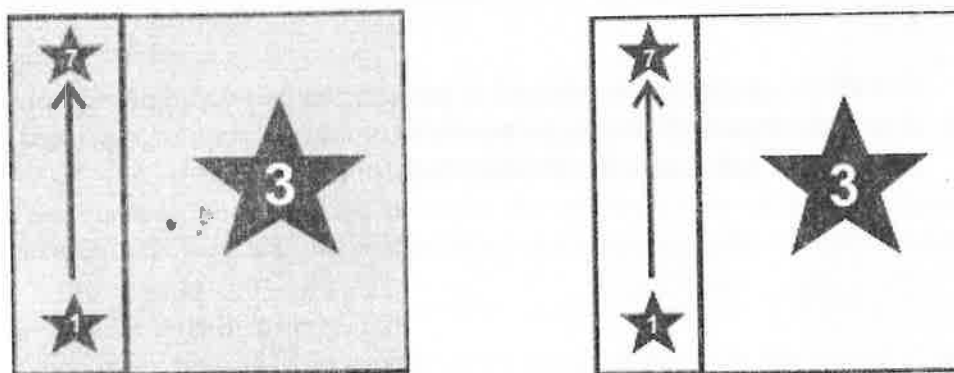


Figure 1: Coloured or monochrome Star Rating, with range of energy efficiency classes indicated.

6. The number embedded in the black star corresponding with the energy efficiency class of the appliance star shall be in hundred per cent white and positioned in the centre of the black star in the box, with a border of 0.5 pt in hundred per cent black placed around the box and the star showing the energy efficiency star rating class.
7. By way of derogation, if the visual advertisement, technical promotional material or paper-based distance selling is printed in monochrome, the box can be in monochrome in that visual advertisement, technical promotional material or paper-based distance selling.

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8. Telemarketing-based distance selling shall specifically inform the customer of the energy efficiency class of the product and of the range of energy efficiency classes available on the label, and that the customer can access the full label and the Product Information Sheet through a free access website, public part of the Appliance Energy Efficiency Register of the Commission or by requesting a printed copy.
9. For all the situations mentioned in paragraphs 2 to 4 and paragraph 8, it shall be possible for the customer to obtain, on request, a printed copy of the label and the Product Information Sheet.

PART SIX

(regulation 26(2)(a))

Information to be provided in the case of distance selling through the Internet

1. The appropriate label made available by suppliers in accordance with the Third Schedule shall be shown on the display mechanism in proximity to the price of the product.
2. The size shall be such that the label is clearly visible and legible and shall be proportionate to the size specified in the Third Schedule.
3. The label may be displayed using a nested display, in which case the image used for accessing the label shall comply with the specifications laid down in paragraph 5 of this Part.
4. If nested display is applied, the label shall appear on the first mouse click, mouse roll-over or tactile screen expansion on the image.

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5. The image used for accessing the label in the case of nested display, as indicated in Figure 2, shall
- be a box in gold colour with a black star and an embedded number corresponding to the energy efficiency star rating of the product on the label;
 - indicate the energy efficiency star rating of the product in the box in hundred per cent black, Calibri Bold and in a font size equivalent to that of the price;
 - have the range of available energy efficiency classes in hundred per cent black; and
 - have one of the following two formats, and its size shall be such that the box is clearly visible and legible. The number showing the energy efficiency star rating shall be positioned in the centre of the box, with a visible border in hundred per cent black placed around the box and the number of the energy efficiency star rating.

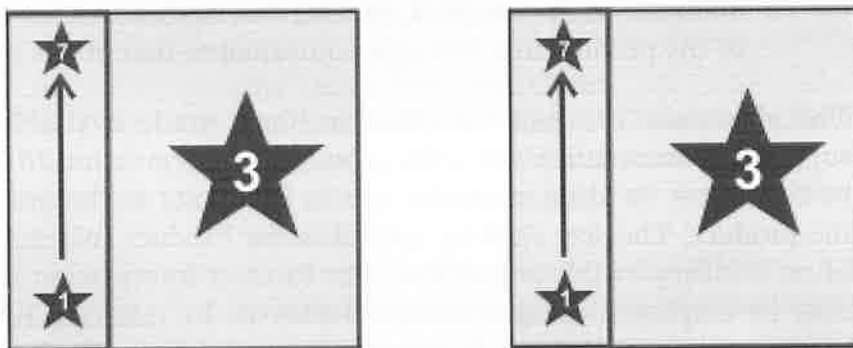


Figure 2: Coloured Star Rating, with range of energy efficiency classes indicated

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6. In the case of a nested display, the sequence of display of the label shall be as follows:
 - (a) the image referred to in paragraph 5 of this Part shall be shown on the display mechanism in proximity to the price of the product;
 - (b) the image shall link to the label set out in the Third Schedule;
 - (c) the label shall be displayed after a mouse click, mouse roll-over or tactile screen expansion on the image;
 - (d) the label shall be displayed by pop up, new tab, new page or inset screen display;
 - (e) for magnification of the label on tactile screens, the device conventions for tactile magnification shall apply;
 - (f) the label shall cease to be displayed by means of a close option or other standard closing mechanism; and
 - (g) the alternative text for the graphic, to be displayed on failure to display the label, shall be the energy efficiency class of the product in a font size equivalent to that of the price.

7. The electronic Product Information Sheet made available by suppliers in accordance with subregulation (2) of regulation 26 shall be shown on the display mechanism in proximity to the price of the product. The size shall be such that the Product Information Sheet is clearly visible and legible. The Product Information Sheet may be displayed using a nested display or by referring to the product database, in which case the link used for accessing the Product Information Sheet shall clearly and legibly indicate 'Product Information Sheet'. If a nested display is used, the Product Information Sheet shall appear on the first mouse click, mouse roll-over or tactile screen expansion on the link.

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FIFTH SCHEDULE

VERIFICATION PROCEDURE FOR MARKET SURVEILLANCE
(regulation 33(2))

Table: Verification tolerances for measured parameters

<i>Parameter</i>	<i>Verification tolerances</i>
On mode power demand, ($P_{measured}$, Watts) excluding allowances and adjustments in the Second Schedule.	The determined value (*) shall not exceed the declared value by more than seven per cent
Off-mode, standby-mode and networked standby mode power demand (Watts), as applicable	The determined value (*) shall not exceed the declared value by more than 0.10 Watts if the declared value is 1.00 W or less, or by more than ten per cent if the declared value is more than 1.00 W
Peak white luminance ratio	Where applicable, the determined value shall not be lower than sixty per cent of the peak white luminance of the brightest on-mode configuration provided by the electronic display
Peak white luminance (cd/m^2)	The determined value (*) shall not be lower than the declared value by more than eight per cent

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Visible screen diagonal in centimeters (and inches, if declared)	The determined value (*) shall not be lower than the declared value by more than 1 cm (or 0.4 inches).
Screen area in dm ²	The determined value (*) shall not be lower than the declared value by more than 0.1 dm ²
Timed functions as set out in the Second Schedule	The switch shall be completed within 5 seconds of the set-out values
The screen resolution in horizontal and vertical pixels	The determined value (*) shall not deviate from the declared value

1. The verification tolerances set out in this Schedule relate only to the verification of the declared parameters by the Commission and the Standards Authority and shall not be used by the supplier as an allowed tolerance to establish the values in the technical documentation.
2. The values and classes on the label or in the Product Information Sheet shall not be more favourable for the supplier than the values reported in the technical documentation.
3. Where a model has been designed to be able to detect it is being tested by recognising the test conditions or test cycle and to react specifically by automatically altering the performance of the model during the test with the objective of reaching a more favourable level for any of the parameters specified in these Regulations or included in the technical documentation or included in any of the documentation provided, the model and all equivalent models shall be considered not compliant.

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4. When verifying the compliance of a product model with the requirements laid down in these Regulations, the Commission and the Standards Authority shall apply the following procedure:
 - (a) The Commission and the Standards Authority shall verify one single unit of the model.
 - (b) The model shall be considered to comply with the applicable requirements if
 - (i) the values given in the technical documentation pursuant to the declared values in the Second Schedule, and, where applicable, the values used to calculate these values, are not more favourable for the supplier than the corresponding values given in the test reports;
 - (ii) the values published on the label and in the Product Information Sheet are not more favourable for the supplier than the declared values, and the indicated energy efficiency class and the airborne acoustical noise emission class are not more favourable for the supplier than the class determined by the declared values; and
 - (iii) when the Commission and the Standards Authority test the unit of the model, the values of the relevant parameters as measured in testing and the values calculated from these measurements comply with the respective verification tolerances as given in Table 1.
5. If the results referred to in subsubparagraphs (i) and (ii) of subparagraph (b) of paragraph 4 are not achieved, the model and all equivalent models shall be considered not to comply with these Regulations.

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6. If the result referred to in subsubparagraph (iii) of subparagraph (b) of paragraph 4 is not achieved, the Commission and the Standards Authority shall select three additional units of the same model for testing. As an alternative, the three additional units selected may be of one or more equivalent models.
 7. The model shall be considered to comply with the applicable requirements if for these three units the arithmetic mean of the determined values complies with the respective tolerances given in the Table.
 8. If the result referred to in paragraph 7 is not achieved, the model and all equivalent models shall be considered not to comply with these Regulations.
 9. The Commission and the Standards Authority shall provide all relevant information to all the enforcement authorities and the public without delay once a decision has been taken on the non-compliance of the model according to paragraphs 5 and 8.
 10. The Commission and the Standards Authority shall use the measurement and calculation methods set out in the Second Schedule.
 11. The Commission and the Standards Authority shall only apply the verification tolerances set out in the Table and shall only use the procedure set out in paragraphs 4 to 10 for the requirements referred to in this Schedule.
 12. For the parameters in the Table, no other tolerances, such as those set out in Ghana Standards or in any other measurement method, shall be applied.
- (*) In the case of three additional units tested as prescribed in this Schedule, the determined value means the arithmetic mean of the values determined for these three additional units.

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In the case of three additional units tested as prescribed in paragraph 4, the determined value means the arithmetic mean of the values determined for these three additional units.

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HON. DR. MATTHEW OPOKU PREMPEH

Minister responsible for Energy

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