

TEST REPORT

Applicant : RADIO PARTS PTY.LTD
Address : 562 Spencer Street WEST MELBOURNE, VIC 3003

Manufacturer : RADIO PARTS PTY.LTD
Address : 562 Spencer Street WEST MELBOURNE, VIC 3003

Product Name : 15.6 HD LED TV
Trade Mark : *Wintal*
Model No. : 15LED17HD

Ratings : 100-240V~, 50/60Hz, 20W

Test Standard : Power consumption of audio, video and related equipment
Part 1; Methods of measurement AS/NZS 62087.1: 2010;
Part 2.2: Minimum energy performance standards (MEPS) and energy
rating label requirements for television sets
AS/NZS 62087.2.2: 2011+A1:2012+A2:2012

Date of Receiver : Apr. 20, 2017
Date of Test : Apr. 24, 2017 to Apr. 25, 2017
Date of Issue : Apr. 25, 2017
Test Report Form No : JHC-AS/NZS62087.2.2-A1-A
Test Result : Pass *

This Test Report is Issued Under the Authority of :

Compiled by

Hiber Jia

Hiber Jia / Engineer



Approved by & Authorized Signer

Leo

Leo Qin / Authorized Signatory

*Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of Shenzhen Junhaicheng Technology Co., Ltd. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Revision History of This Test Report

[illegible]

Copy of marking plate:



Note:

- Marking label was stuck on rear external enclosure.
 - The above marking are the minimum requirements required by the safety standard. For the final production sample, the marking which do not give rise to misunderstanding may be add.
- All models are identical except the model designations.

Summary of testing:

From the result of our tests on the submitted samples, we conclude they comply with the requirements of the standards.

Test item particulars:	15.6 HD LED TV
Classification of installation and use	Table-top
Supply Connection	Power supply cord with non-rewireable plug.
Possible test case verdicts:	
- test case does not apply to the test object	N/A (Not Applicable)
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement	F (Fail)
General remarks:	
<p>"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. Throughout this report a comma is used as the decimal separator.</p>	
General product information:	
<p>The product covered by this report is a 15.6 inch HD LED TV for indoor use only.</p> <p>The unit has following features:</p> <ol style="list-style-type: none">1. The unit contains YpbPr, PC, TV, HDMI, AV ports, RF;2. The equipment is powered by a built-in switch mode power supply.	

1. General conditions for measurement	
The air speed close to the EPS:	0.1 m/s (Requirement: ≤0.5m/s)
The ambient temperature:	24.0℃ (Requirement: 23℃±5℃)
Relative humidity:	65%RH
Test voltage and frequency:	230 V, 50 Hz (Requirement: 230 V ± 2%, 50 Hz ± 2%)
Input voltage total harmonic distortion(V%THD):	0.8%(Requirement: ≤ 5% (up to and including the 13th harmonic))
Crest factor of input voltage:	1.41(Requirement: 1.34 – 1.49)
Remark: 1. When determining for test conclusion, measurement uncertainty of tests has been considered. 2. Measurements of power of 0.50 W or greater was made with an uncertainty of less than or equal to 2 % at the 95 % confidence level. 3. Measurements of power of less than 0.50 W was made with an uncertainty of less than or equal to 0.01 W at the 95 % confidence level. 4. The power measurement instrument shall, as applicable, have a resolution of: (1) 0.01 W or better for measurements up to 10 W; (2) 0.1 W or better for measurements of 10 to 100 W; or (3) 1 W or better for measurements over 100 W.	
2.Product information	
Model:	15LED17HD, H1598
Nameplate input voltage (V):	100-240Vac
Nameplate input frequency (Hz):	50/60Hz
Nameplate input current (A): (leave blank if not stated)	/
Nameplate input power (W): (leave blank if not stated)	20
Country of manufacturer:	China
Viewable Screen Width (cm):	19.35
Viewable Screen Height (cm):	34.42
Claimed Screen Size (diagonal dimension cm):	39.49
Screen Technology:	<input checked="" type="checkbox"/> LCD(LED) <input type="checkbox"/> CRT <input type="checkbox"/> Plasma <input type="checkbox"/> LCD <input type="checkbox"/> DLP <input type="checkbox"/> Rear projection <input type="checkbox"/> Laser <input type="checkbox"/> OLED <input type="checkbox"/> LOOS
Number of pixels:	1366(horizontal)x768(Vertical)
Nominal aspect ratio of the screen:	16:9
Tuner type:	<input type="checkbox"/> Digital <input type="checkbox"/> Analogue <input checked="" type="checkbox"/> Analogue/Digital Combination
Name of the recommended home viewing picture mode :	<input checked="" type="checkbox"/> Standard mode <input type="checkbox"/> Home mode <input type="checkbox"/> Normal mode <input type="checkbox"/> Others please specify
On (average) mode power in recommended home viewing picture mode (W):	10.00
On (average) mode power factor in recommended home viewing picture mode :	0.384
Name of brightest picture mode:	<input type="checkbox"/> Shop mode <input type="checkbox"/> Display <input type="checkbox"/> Retail mode <input checked="" type="checkbox"/> Dynamic

3. Test result:

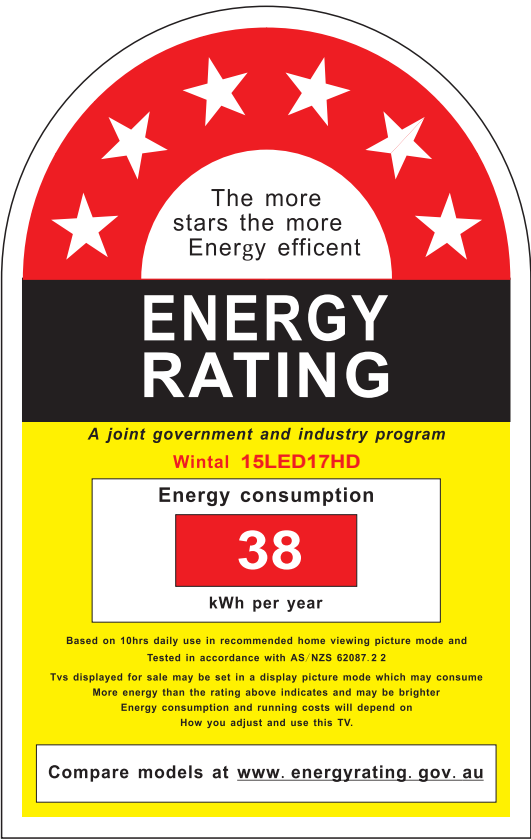
Test voltage			230V / 50Hz
Video signals			Dynamic broadcast-content video signal
Audio test signal			1 kHz Sine-wave signals
Input terminals			HDMI
Luminance of brightest picture mode (cd/m ²):			76.0
Luminance of recommended home viewing picture mode (cd/m ²):			65.0
Screen area (cm ²)			666.0270
Method 1	Passive standby power (W)	Measured:	0.28
		Time passive (declared time spent in passive standby mode) :	14
		Power Factor:	0.041
	Active standby power (W)	Measured:	N/A
		Time active (declared time spent in active standby mode):	N/A
		Power Factor:	N/A
Method 2	Worst case standby energy consumption over 14 hours	Declared/measured Wh:	3.92
On (average) mode power in recommended home viewing picture mode (W)		Measured:	10.00
On (average) mode power factor in recommended home viewing picture mode		Power Factor:	0.394
Method 1: PAEC Measured (kWh/a) PAEC = 0.365 × [(television avg. on × 10) + (television passive × time passive) + (television active × time active)] kWh/a			--
Method 2: PAEC Measured (kWh/year) PAEC = 0.365 × [(television avg. on × 10) + (14 hour calculated standby)] kWh/year			37.93
Comparative Energy Consumption (CEC) (kWh/year)			38
MEPS Limit for Tier 1 (From date of publication until 30 September 2012) PAEC ≤ BEC (127.75 + 0.1825 × screen area)			--
MEPS Limit for Tier 2 (From 1 April 2013) PAEC ≤ BEC (65.41 + 0.0934 × screen area)			BEC =127.61692
Star Rating Index (SRI) = 1 + [Log(CEC/BEC) / Log(1-ERF)] (ERF = Energy Rating Factor and is 20% or 0.2)			--
			6.425 (using BEC for Tier 2)
Star Rating (Tier 1)			--
Star Rating (Tier 2)			6
Result			Comply with Tier 2

4. Star Rating Index (SRI), The SRI for a television set shall be calculated in accordance with Equation 4.1)

TABLE 4.1
DETERMINATION OF STAR RATING

SRI	Star rating
$\text{SRI} < 1.5$	1
$1.5 \leq \text{SRI} < 2.0$	1.5
$2.0 \leq \text{SRI} < 2.5$	2
$2.5 \leq \text{SRI} < 3.0$	2.5
$3.0 \leq \text{SRI} < 3.5$	3
$3.5 \leq \text{SRI} < 4.0$	3.5
$4.0 \leq \text{SRI} < 4.5$	4
$4.5 \leq \text{SRI} < 5.0$	4.5
$5.0 \leq \text{SRI} < 5.5$	5
$5.5 \leq \text{SRI} < 6.0$	5.5
$6.0 \leq \text{SRI} < 7.0$	6
$7.0 \leq \text{SRI} < 8.0$	7
$8.0 \leq \text{SRI} < 9.0$	8
$9.0 \leq \text{SRI} < 10.0$	9
$10.0 \leq \text{SRI}$	10

Star Rating Index Mark of Product:



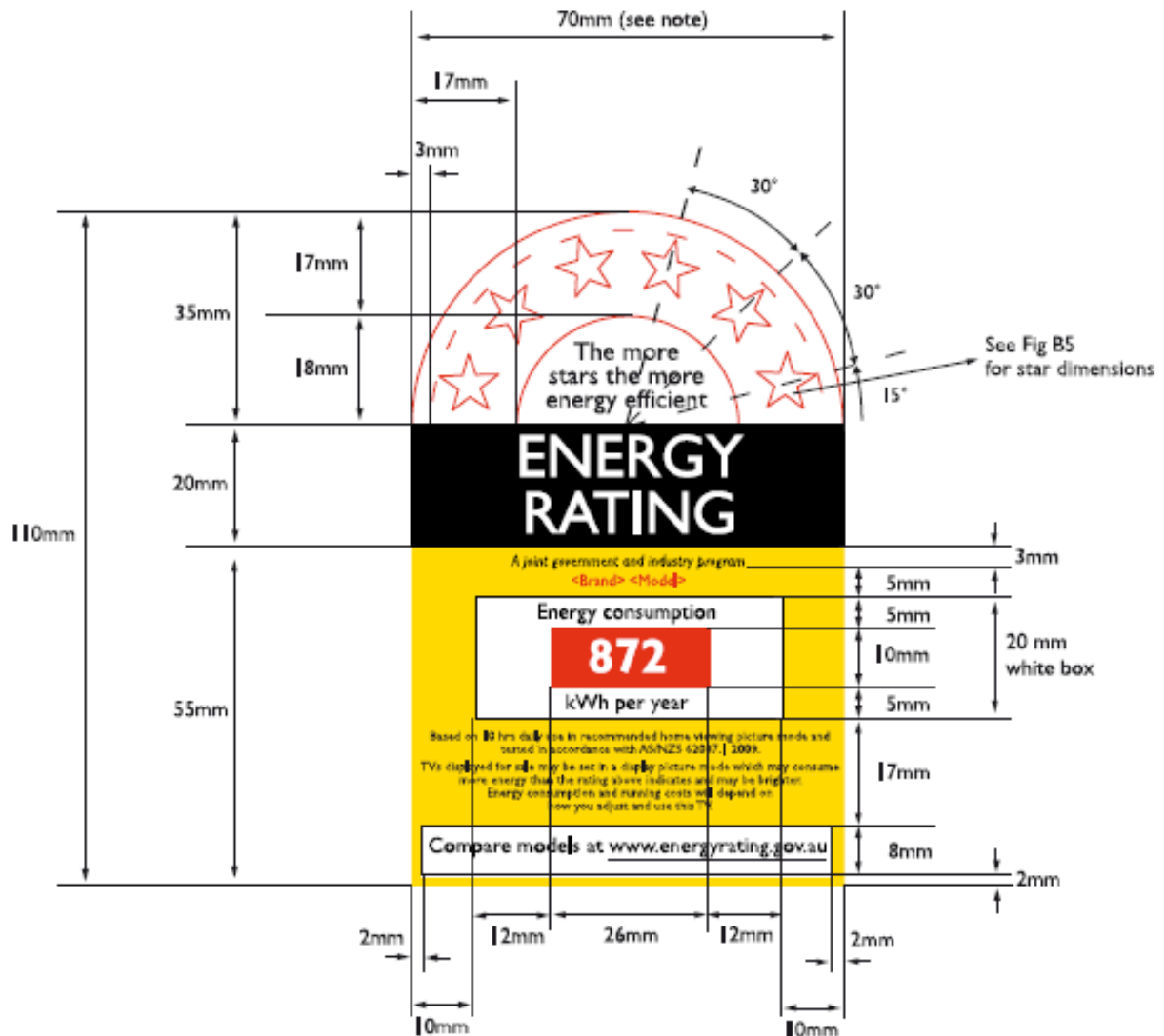
5. Attachments :(Label specification for television sets)

Appendix B Label specification for television sets

B1, label type and size:

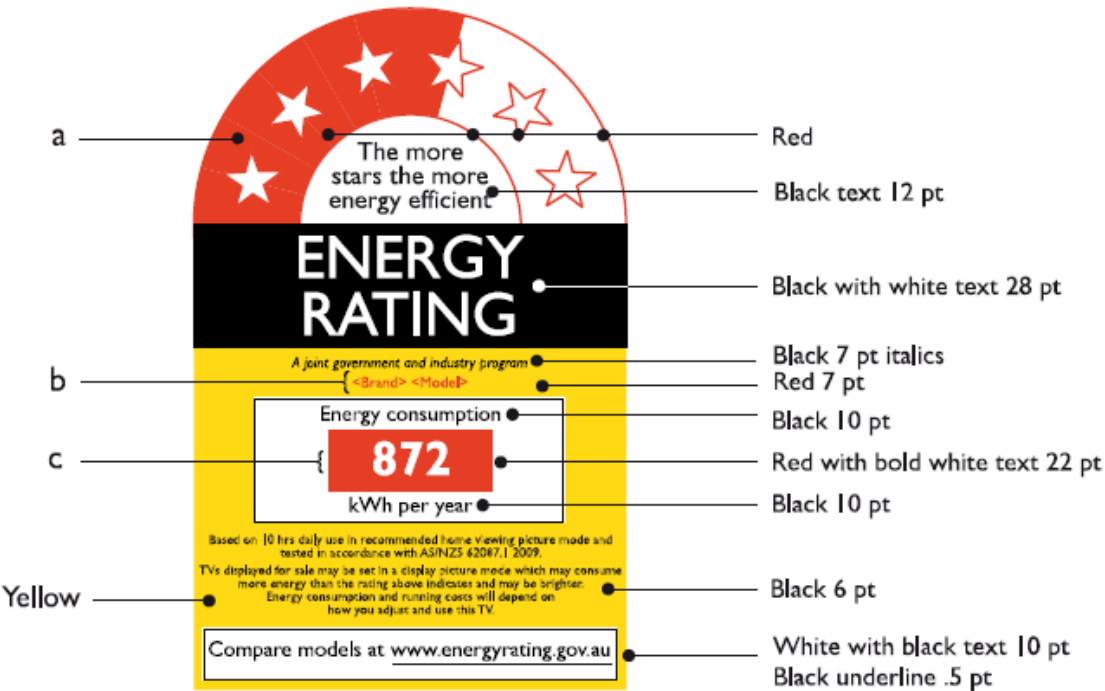
Television sets labelled as 6 stars or less shall conform to Figure B1. Television sets that have an energy rating above 6 stars may use the 10 star label. If the 10 star label is used, it shall conform to Figure B2. An example of the 10 star label is shown in Figure B4. The label shall not be smaller than 70 mm wide and 110 mm long. The stars on either the 6 star label or the 10 star label shall conform with Figure B5.

Alternate use of 'AS/NZS 62087.1:2009' or 'AS/NZS 62087.1:2010' is permitted on the energy label in



(a)

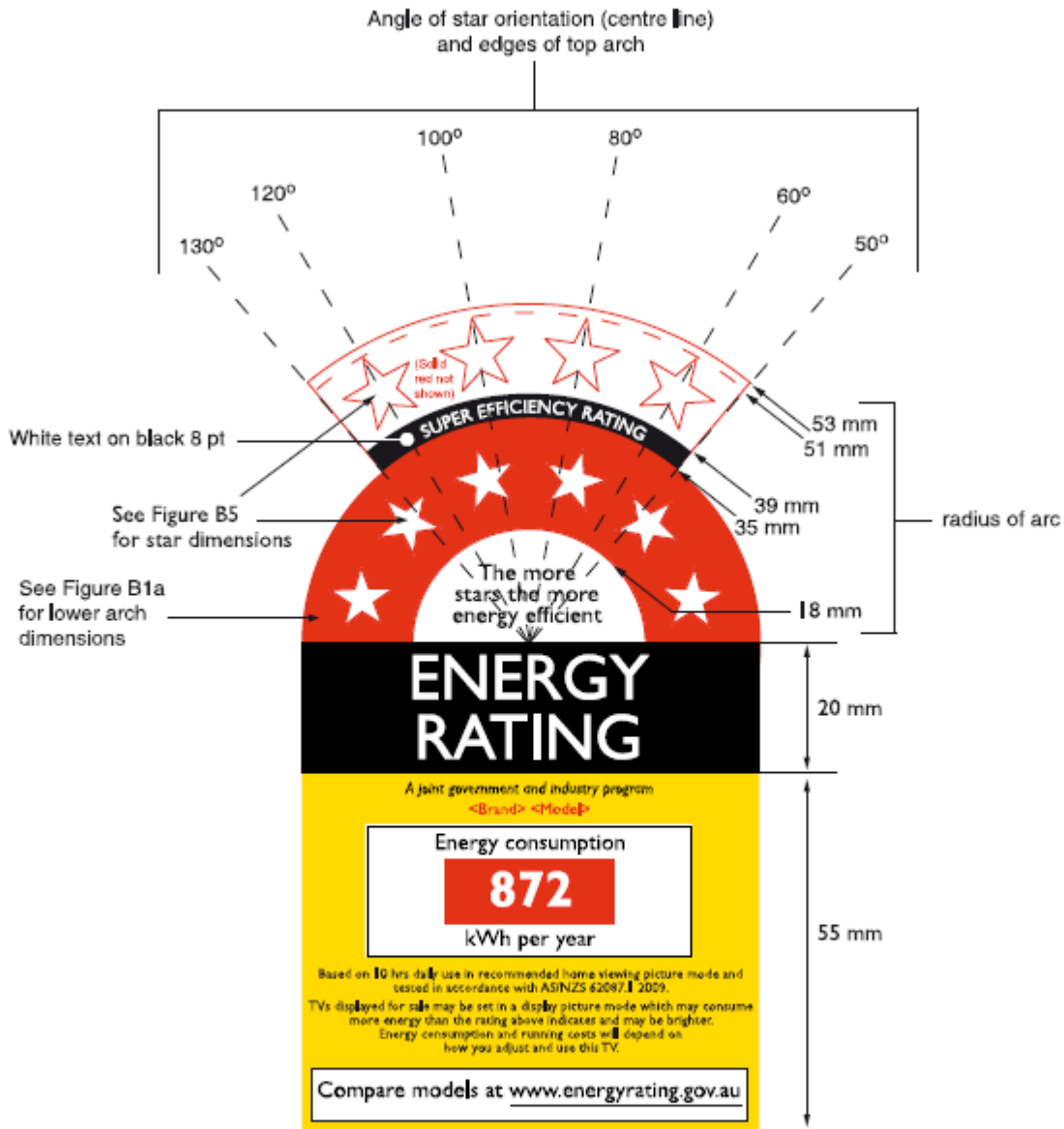
FIGURE B1 (in part) 6 STAR LABEL



(b)

NOTE: A 68 mm star arch width is preferable, however for online printing the arch width can be reduced to a minimum of 66 mm to allow for a ± 2 mm registration error such that the red print does not extend over the edge of the black or result in a white band between the black and red (an overlap is recommended for online printing).

FIGURE B1 (In part) 6 STAR LABEL



NOTE: A 68 mm star arch width is preferable, however for online printing the arch width can be reduced to a minimum of 66 mm to allow for a ± 2 mm registration error such that the red print does not extend over the edge of the black or result in a white band between the black and red (an overlap is recommended for online printing).

FIGURE B2 10 STAR LABEL

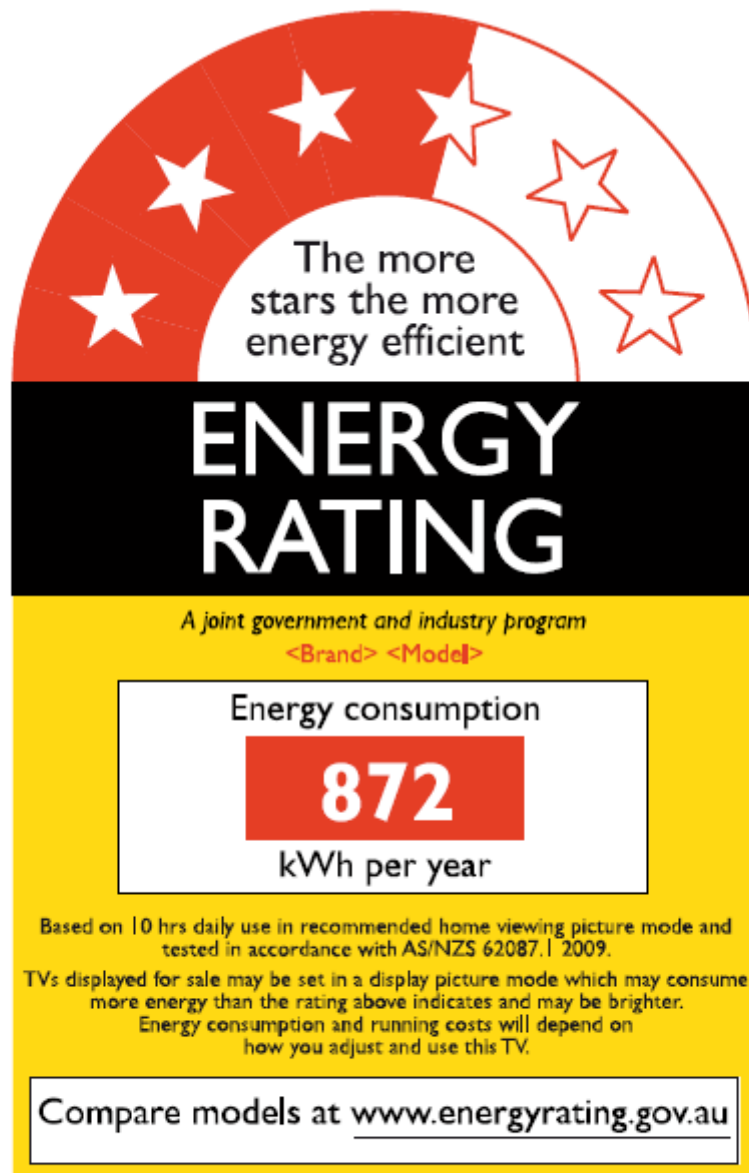
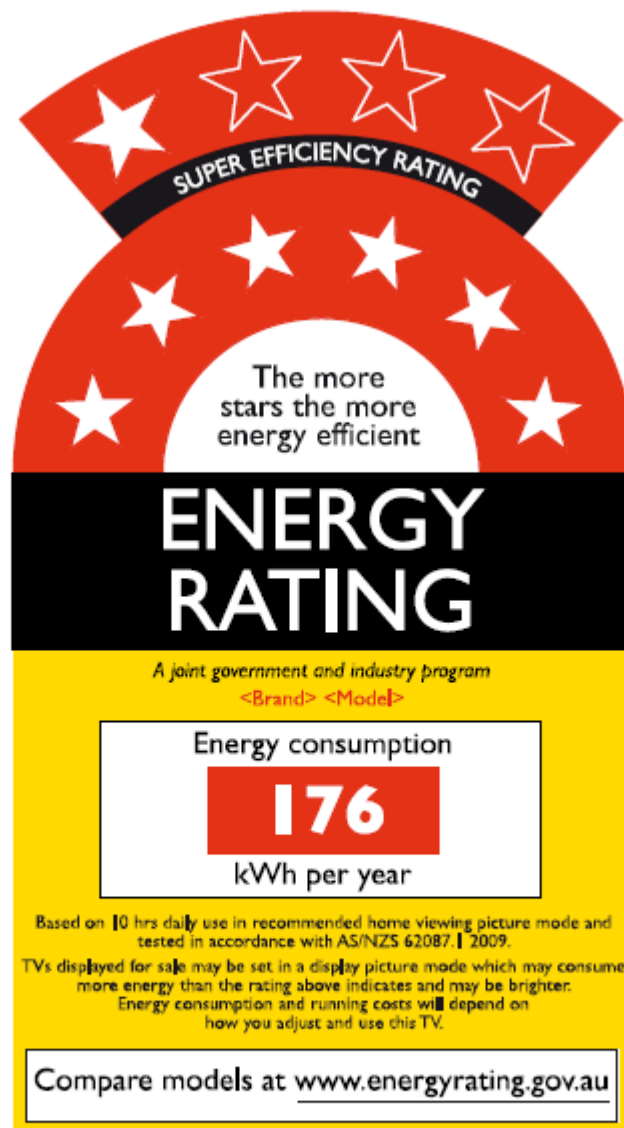
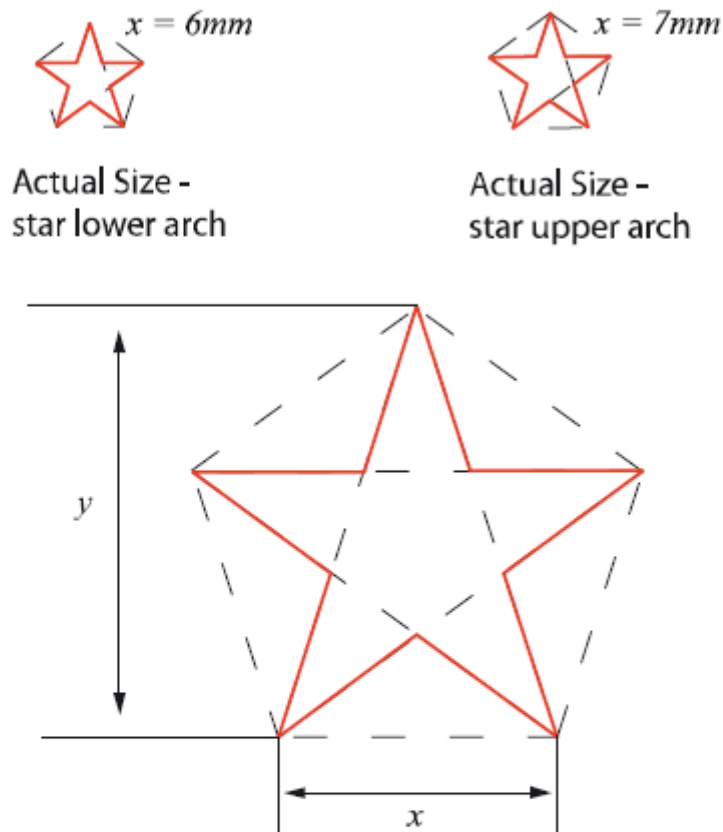


FIGURE B3 EXAMPLE OF BASE LABEL



NOTE: This example depicts 7 stars (out of a possible 10 stars).

FIGURE B4 EXAMPLE OF SUPER EFFICIENT LABEL



The apex for each star point lies on the corner of a pentagon. Angles are 108° for the pentagon and 36° for each star apex.

For the smaller star (lower arch) the pentagon side x is 6mm (height y is 9.2mm) and for the larger star (upper arch) the pentagon side x is 7mm (height y is 10.8mm)

FIGURE B5 STAR DIMENSIONS AND GEOMETRY

B2 LABEL COLOUR AND FONT

B2.1 Colours

The label shall be printed in the following colours on a white background:

- (a) Red: Pantone Warm Red.
- (b) Yellow: Pantone 116.
- (c) Black: Pantone Black.

B2.2 Font

The font used on the label shall be Gill Sans, Humanist 521 or Hammersmith.

The preferred font is Gill Sans. Only one font shall be used on a label.

The following fields relate to field references in Figures B1 and B2:

(a) Field a—This band shall terminate according to the television's star rating, either bisecting the relevant star for a rating involving a half star, or for a rating of only full stars, bisecting the gap between the relevant star and the next highest on the scale. (3 ½ rating shown is example only).

(b) Field b—The brand and the model shall be inserted here. The wording should be complete and concise. The lines shall not exceed a length of 50 mm. They should have normal spacing of letter, line and word. They shall be centred horizontally in the area allowed.

(c) Field c—This panel shall contain the comparative energy consumption (CEC). The panel shall be centred. The figures that apply to the particular appliance are to be of the font and size indicated and centred in the panel. The spacing between the figures of a three-figure number is the same as for a four-figure number. (The figures shown are examples only.)

NOTE: On some printers and display devices, the colours in these sample labels may appear different to those specified.

- 1 To better describe the various types of labels including the transition label, *add new* Clause B3 as follows:

B3 LABEL VARIANTS

The following label variants are permitted under the circumstances specified:

- (a) Where a product achieves a star rating from 1 to 6 stars—
 - (i) base label (with the relevant star rating and energy consumption); or
 - (ii) base label plus the transition wording in a white box at the base of the label for products manufactured or imported before 1 October 2013; or
 - (iii) super-efficient label plus the transition wording in a white box at the base of the label for products manufactured or imported before 1 October 2013; or
 - (iv) super-efficient label plus an empty white box at the base of the label for an indefinite period.
- (b) Where a product achieves a star rating from 7 to 10 stars—
 - (i) base label showing 6 stars and relevant energy consumption; or
 - (ii) the super-efficient label showing 6 stars in the lower arch and relevant energy consumption in the lower part and the earned stars (7, 8, 9 or 10) in the upper arch, as applicable.

Sample labels are shown in Figures B1, B2, B3 and B4. Details for the transition label are given in Figure B6.

The white box at the base of the transition label shall not be smaller than 8 mm in height and shall have a 1pt black outline. If text is contained within the box, the text shall be black bold 10pt with red for the previous star rating.

2 Add new Figure B6 directly under new Clause B3, as follows:

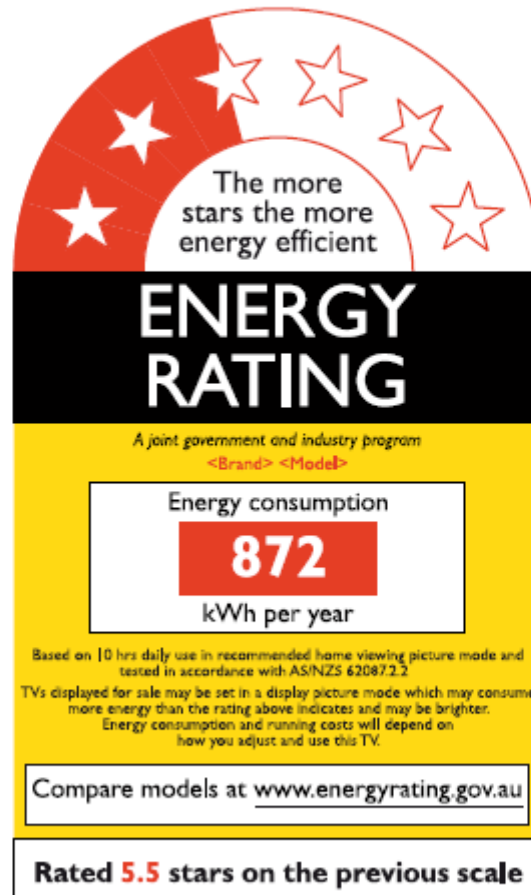


FIGURE B6 TRANSITIONAL LABEL

6. Equipment Used during Test :

Instrument	Model/Type	Cal. Date	Cal. Due Date
Digital Power Meter	WT210	March 29, 2017	March 28, 2018
Digital Oscilloscope	TDS220	March 29, 2017	March 28, 2018
Temperature & Humidity Meter	TA328	March 29, 2017	March 28, 2018
Watch	PC396	March 29, 2017	March 28, 2018
Luminance Meter	ST-86LA	March 29, 2017	March 28, 2018
air meter	P6-8901	March 29, 2017	March 28, 2018

Photo documentation
Photo 1



Photo 2

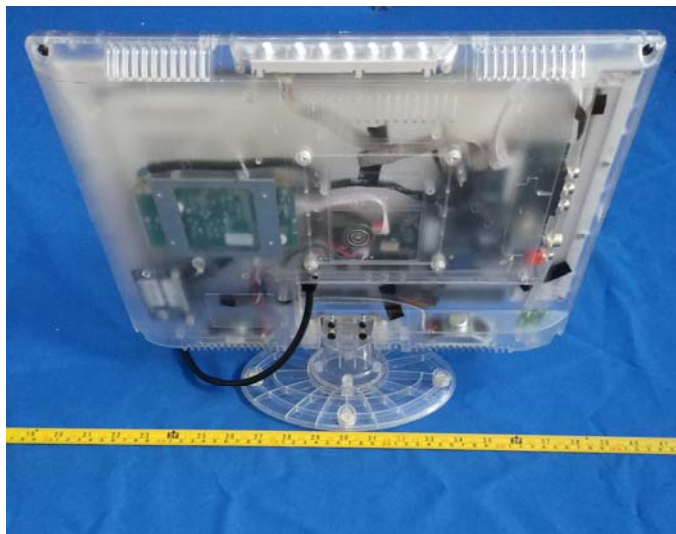


Photo 3

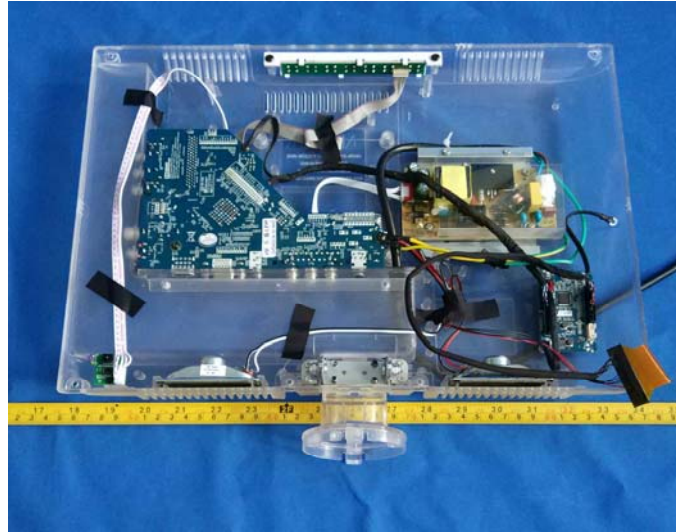


Photo 4

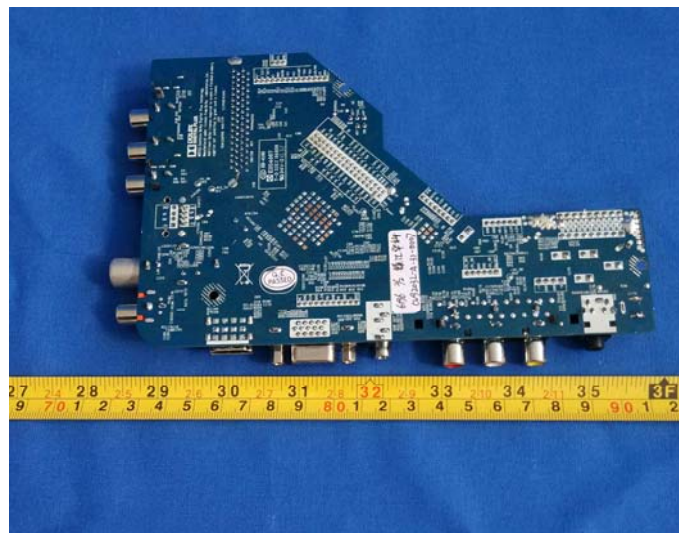


Photo 5

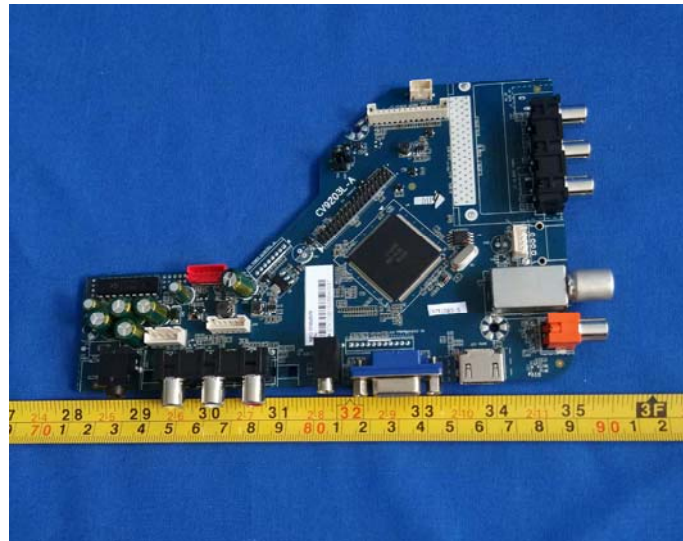


Photo 6

