

**AS/NZS 60335.2.27:2004**  
IEC 60335-2-27 Ed 4.2, IDT  
(Incorporating Amendment Nos 1 and 2)

AS/NZS 60335.2.27:2004

**Australian/New Zealand Standard™**

**Household and similar electrical  
appliances—Safety**

**Part 2.27: Particular requirements for  
appliances for skin exposure to  
ultraviolet and infrared radiation**



#### **AS/NZS 60335.2.27:2004**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-002, Safety of Household and Similar Electrical Appliances and Small Power Transformers. It was approved on behalf of the Council of Standards Australia on 18 March 2004 and on behalf of the Council of Standards New Zealand on 26 March 2004.

This Standard was published on 31 May 2004.

---

The following are represented on Committee EL-002:

Association of Certification Bodies  
Australian Chamber of Commerce and Industry  
Australian Electrical and Electronic Manufacturers Association  
Canterbury Manufacturers Association New Zealand  
Consumer Electronic Suppliers Association, Australia  
Electrical regulatory authorities, Australia  
Electrical test laboratories  
Electrical consultants  
Electricity Supply Association of Australia  
Institution of Engineers Australia  
Metal Trades Industries Association of Australia  
Ministry of Consumer Affairs, New Zealand

---

#### **Keeping Standards up-to-date**

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Web Shop at [www.standards.com.au](http://www.standards.com.au) or Standards New Zealand web site at [www.standards.co.nz](http://www.standards.co.nz) and looking up the relevant Standard in the on-line catalogue.

Alternatively, both organizations publish an annual printed Catalogue with full details of all current Standards. For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

---

*This Standard was issued in draft form for comment as DR 03948.*

---

**AS/NZS 60335.2.27:2004**  
(Incorporating Amendment Nos 1 and 2)

## Australian/New Zealand Standard™

### **Household and similar electrical appliances—Safety**

### **Part 2.27: Particular requirements for appliances for skin exposure to ultraviolet and infrared radiation**

Originated in Australia as AS 3315—1992.  
Originated in New Zealand as NZS 6327:1992.  
Jointly revised and redesignated AS/NZS 3350.2.27:1996.  
Jointly revised and redesignated AS/NZS 60335.2.27:2004.  
Reissued incorporating Amendment No. 1 (June 2005).  
Reissued incorporating Amendment No. 2 (November 2007).

#### **COPYRIGHT**

© Standards Australia/Standards New Zealand

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Jointly published by Standards Australia, GPO Box 476, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 6145 3

## CONTENTS

FOREWORD.....	4
INTRODUCTION.....	6
1 Scope .....	7
2 Normative references .....	7
3 Definitions .....	8
4 General requirement.....	8
5 General conditions for the tests .....	8
6 Classification.....	8
7 Marking and instructions .....	9
8 Protection against access to live parts .....	12
9 Starting of motor-operated appliances.....	12
10 Power input and current.....	12
11 Heating .....	12
12 Void .....	13
13 Leakage current and electric strength at operating temperature .....	13
14 Transient overvoltages .....	13
15 Moisture resistance .....	13
16 Leakage current and electric strength .....	13
17 Overload protection of transformers and associated circuits .....	13
18 Endurance.....	13
19 Abnormal operation .....	13
20 Stability and mechanical hazards .....	14
21 Mechanical strength .....	14
22 Construction.....	15
23 Internal wiring.....	18
24 Components .....	18
25 Supply connection and external flexible cords .....	18
26 Terminals for external conductors .....	18
27 Provision for earthing.....	19
28 Screws and connections .....	19
29 Clearances, creepage distances and solid insulation .....	19
30 Resistance to heat and fire .....	19
31 Resistance to rusting .....	19
32 Radiation, toxicity and similar hazards .....	19

	Annexes .....	24
	Annex AA (normative) Measurement of luminance .....	24
A1	Annex BB (informative) Detailed classification of UV appliances .....	25
A2	Annex CC (informative) Fluorescent UV lamp equivalency code.....	27
	Annex ZZ (informative) Variations to IEC 60335-2-27 Ed 4.2 for application in Australia and New Zealand .....	29
	 Bibliography .....	 28
	 Figure 101 – UV action spectrums.....	 22
	 Table 102 – Maximum transmission of the goggles .....	 21
	Table BB.1 – Limits of effective irradiance.....	26

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

- 
- Looking for additional Standards? Visit Intertek Inform Infostore
  - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-