

AS/NZS 3350.2.76:1998
(Incorporating Amendment Nos 1, 2 and 3)

AS/NZS 3350.2.76:1998

Australian/New Zealand Standard™

**Safety of household and similar
electrical appliances**

**Part 2.76: Particular requirements—
Electric fence energizers
(IEC 60335-2-76:1997, MOD)**



AS/NZS 3350.2.76:1998

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 28 January 1998 and on behalf of the Council of Standards New Zealand on 28 November 1997.

This Standard was published on 5 May 1998.

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 Standards may also be withdrawn.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 or Standards New Zealand web site at 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.

AS/NZS 3350.2.76:1998
(Incorporating Amendment Nos 1, 2 and 3)

Australian/New Zealand Standard™

**Safety of household and similar
electrical appliances**

**Part 2.76: Particular requirements—
Electric fence energizers
(IEC 60335-2-76:1997, MOD)**

Originated in Australia as AS C129—1959.
Final Australian edition AS 3129—1989.
Originated in New Zealand as NZS 1525:1962.
Final New Zealand edition NZS 6203:1987.
AS 3129—1989 and NZS 6203:1989 jointly revised and redesignated
as AS/NZS 3129.1:1993, and first published AS/NZS 3129.2:1993 and
AS/NZS 3129.3:1993.
Jointly revised and redesignated AS/NZS 3350.2.76:1998.
Reissued incorporating Amendment No. 1 (April 2001).
Reissued incorporating Amendment No. 2 (May 2002).
Reissued incorporating Amendment No. 3 (May 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 1878 7

CONTENTS

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

Annexes	31
Annex A (normative) Normative references.....	31
Annex B (normative) Appliances powered by rechargeable batteries	32
Annex AA (informative) Circuit for the independent control of the switching speed of the major pulse-switching device.....	33
Annex BB (normative) Instructions for installation and connection of electric fences	34
Annex CC (informative) Installation of electric security fences.....	40
Annex ZZ (informative) Variations to IEC 60335-2-76:1997 for application in Australia and New Zealand.....	44
Figure 101 - Schematic examples of the different types of battery-operated energizers suitable for connection to the mains	28
Figure 102 - Scratch test for coated enclosures	29
Figure 103 - Current limited energizer characteristic limit line	30
Figure AA.1 - Circuit for the independent control of the switching speed of the major pulse-switching device	33
Figure BB.1 – Symbol for warning signAnnex CC (informative) Installation of electric security fences	39
Figure CC.1 – Prohibited area for pulse conductors	41
Figure CC.2 – Typical constructions where an electric security fence is exposed to the public	42
Figure CC.3 – Typical fence constructions where the electric security fence is installed in windows and skylights.....	43

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](#)
-