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National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 50272-4:2007

ICS 29.220.20

SAFETY REQUIREMENTS FOR SECONDARY BATTERIES AND BATTERY INSTALLATIONS -- PART 4: BATTERIES FOR USE IN PORTABLE APPLIANCES

National Standards
Authority of Ireland
Glasnevin, Dublin 9
Ireland
Tel: +353 1 807 3800
Fax: +353 1 807 3838
http://www.nsai.ie

Sales
http://www.standards.ie

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 50272-4

March 2007

ICS 29.220.20

English version

Safety requirements for secondary batteries and battery installations - Part 4: Batteries for use in portable appliances

Règles de sécurité pour les batteries d'accumulateurs et leur installation - Partie 4: Batteries d'accumulateurs utilisées dans les appareils portables

Sicherheitsanforderungen an Batterien und Batterieanlagen - Teil 4: Batterien für tragbare Geräte

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

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Ref. No. EN 50272-4:2007 E

Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 21X, Secondary cells and batteries. The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50272-4 on 2006-03-01.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2007-10-01
- latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2009-03-01

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Contents

Page

Introduction 4
1 Scope 4
2 Normative references 4
3 Definitions 5
4 Operating instructions 5
5 Dimensions and interchangeability of cells and batteries 6
6 Electrical safety 6
6.1 Protection against incorrect connection polarity 6
6.2 Design of battery and battery compartments 6
6.3 Compartments for consumer replaceable batteries 6
7 Safe handling and protection against misuse 6
7.1 Charging 6
7.2 Thermal abuse 7
7.3 Mechanical impact 7
7.4 Protection against pole reversal in the event of deep discharge 7
7.5 Protection against electrical overload 7
7.6 Safe handling 7
8 Battery compartments 7
8.1 Battery accommodation 7
8.2 Replacement battery enclosures 7
8.3 Battery contacts 7
8.4 Protection against hazards caused by released gas 7
9 Measures in the event of accidents with batteries 8
9.1 Swallowing button cells 7
9.2 Burns or positioning caused byleaking batteries 8
10 Marking and disposal of batteries for use in portable appliances 9
Annex A (informative)…… 10
A.1 Instructions for use 10
A.2 Recommendations to the end-users 10
Bibliography 12

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Introduction

This standard gives information about the safety and health protection of persons when applying secondary batteries, which are used for DC power supply systems in portable appliances. Therefore the standard applies for commercially available secondary batteries and battery systems according to the requirements of the “Low Voltage Directive”.

In the European countries similar relevant standards or specifications or parts of it exist, which shall be taken into account and will be replaced by this new standard.

In certain portable appliances or toys the discharge of both primary and secondary cells or batteries is possible. In case of interchange ability of these cells or batteries the standards for primary batteries of the EN 60086 series, Parts 1 to 5, shall have preference.

1 Scope

This standard applies to the safety aspects associated with the accommodation, the arrangements of circuits and the operation of secondary cells and batteries in portable appliances. Requirements are specified which oblige the manufacturers of appliances and secondary batteries to prevent the misuse of batteries in the course of operation to provide protective measures avoiding injury to persons in case of battery failure and to provide sufficient information to users.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 50272-2	Safety requirements for secondary batteries and battery installations - Part 2: Stationary batteries
EN 60086-1	Primary batteries - Part 1: General (IEC 60086-1)
EN 60086-2	Primary batteries - Part 2: Physical and electrical specifications (IEC 60086-2)
EN 60086-3	Primary batteries - Part 3: Watch batteries (IEC 60086-3)
EN 60086-4	Primary batteries - Part 4: Safety of lithium batteries (IEC 60086-4)
EN 60086-5	Primary batteries - Part 5: Safety of batteries with aqueous electrolyte (IEC 60086-5)
EN 60335-1	Household and similar electrical appliances - Safety - Part 1: General requirements (IEC 60335-1)
EN 61056-2	General purpose lead-acid batteries (valve-regulated types) - Part 2: Dimensions, terminals and marking (IEC 61056-2)
EN 61429 + A11	Marking of secondary cells and batteries with the international recycling symbol ISO 7000-1135 and indications regarding directives 93/86/EEC and 91/157/EEC (IEC 61429)
EN 61951-1	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Portable sealed rechargeable single cells - Part 1: Nickel-cadmium (IEC 61951-1)

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