

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

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EUROPEAN STANDARD

EN 50272-4

NORME EUROPÉENNE EUROPÄISCHE NORM

March 2007

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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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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

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CENELEC

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

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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 latest date by which the national standards conflicting with the EN have to be withdrawn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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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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