

Secondary batteries for the propulsion of electric road vehicles —

Part 1: Test parameters

The European Standard EN 61982-1:2006 has the status of a
British Standard

ICS 29.220.20

National foreword

This British Standard was published by BSI. It is the UK implementation of EN 61982-1:2006. It is identical with IEC 61982-1:2006.

The UK participation in its preparation was entrusted to Technical Committee PEL/21, Secondary cells and batteries.

A list of organizations represented on PEL/21 can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 January 2007

© BSI 2007

ISBN 978 0 580 50076 3

Amendments issued since publication

Amd. No.	Date	Comments

**Secondary batteries for the propulsion
of electric road vehicles
Part 1: Test parameters
(IEC 61982-1:2006)**

Accumulateurs pour la propulsion
des véhicules routiers électriques
Partie 1: Paramètres d'essai
(CEI 61982-1:2006)

Sekundärbatterien für den Antrieb von
Elektrostraßenfahrzeugen
Teil 1: Messgrößen
(IEC 61982-1:2006)

This European Standard was approved by CENELEC on 2006-10-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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

Foreword

The text of document 21/641/FDIS, future edition 1 of IEC 61982-1, prepared by IEC TC 21, Secondary cells and batteries, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61982-1 on 2006-10-01.

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) 2007-07-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2009-10-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61982-1:2006 was approved by CENELEC as a European Standard without any modification.

CONTENTS

INTRODUCTION.....	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Test conditions	5
4.1 Accuracy of measuring instruments.....	5
4.2 Test samples	6
4.3 Test temperature	7
4.4 Temperature sensing location	7
4.5 Data recording.....	8
5 Type testing	8
5.1 Capacity testing.....	8
5.2 Rated capacity	8
5.3 Dynamic discharge testing	9
6 Applications testing	9
6.1 General conditions.....	9
6.2 Allowable tolerances.....	9
6.3 Available battery energy	10
6.4 Endurance testing (applications test).....	10
7 Peak power and effective battery resistance.....	10
Annex ZA (normative) Normative references to international publications with their corresponding European publications	12
Figure 1 – Peak power test profile	11
Table 1 – List of parameters for some battery systems	10