

Irish Standard I.S. EN 50342-2:2019

Lead-acid starter batteries - Part 2: Dimensions of batteries and marking of terminals

© CENELEC 2019 No copying without NSAI permission except as permitted by copyright law.

I.S. EN 50342-2:2019

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R.~xxx: Standard~Recommendation-recommendation~based~on~the~consensus~of~an~expert~panel~and~subject~to~public~consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

This document is based on:

Published:

EN 50342-2:2019

2019-10-04

This document was published under the authority of the NSAI and comes into effect on:

ICS number:

2019-10-29

NOTE: If blank see CEN/CENELEC cover page

NSAI T +353 1 807 3800 Sales:

 1 Swift Square,
 F +353 1 807 3838
 T +353 1 857 6730

 Northwood, Santry
 E standards@nsai.ie
 F +353 1 857 6729

 Dublin 9
 W NSAI.ie
 W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

This is a free page sample. Access the full version online.

National Foreword

I.S. EN 50342-2:2019 is the adopted Irish version of the European Document EN 50342-2:2019, Lead-acid starter batteries - Part 2: Dimensions of batteries and marking of terminals

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

For relationships with other publications refer to the NSAI web store.

Compliance with this document does not of itself confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

This is a free page sample. Access the full version online.

This page is intentionally left blank

This is a free page sample. Access the full version online. I.S. EN 50342-2:2019

EUROPEAN STANDARD NORME EUROPÉENNE EN 50342-2

EUROPÄISCHE NORM

October 2019

ICS 29.220.20

Supersedes EN 50342-2:2007 and all of its amendments and corrigenda (if any)

English Version

Lead-acid starter batteries - Part 2: Dimensions of batteries and marking of terminals

Batteries d'accumulateurs de démarrage au plomb - Partie 2: Dimensions des batteries et marquage des bornes Blei-Akkumulatoren-Starterbatterien - Teil 2: Maße von Batterien und Kennzeichnung von Anschlüssen

This European Standard was approved by CENELEC on 2019-08-19. 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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

© 2019 CENELEC All rights of exploitation in any form and by any means reserved worldwide for CENELEC Members.

EN 50342-2:2019 (E)

Cont	ents	age
Europe	an foreword	3
1	Scope	4
2	Normative references	4
3	Terms and definitions	4
4	General requirements	4
4.1	General	
4.2	Marking	4
4.2.1	Safety labelling	
4.2.2	Marking of the polarity of terminals	
4.3	Recycling	
4.3.1	Recycling of lead	
4.3.2	Recycling of plastic material	
4.4	Dimensions and design	
5	Recommended types	6
5.1	General	
5.2	Main dimensions of batteries	
5.3	Handles	
5.3.1	General	
5.3.2	Mounting of handles	
5.4	Mounting of batteries	
5.4.1	General	
5.4.2 5.5	Dimensions and arrangement of ledges and notches Terminals	
5.5.1	Position of terminals	
5.5.1	Dimensions of battery terminals	
5.5.3	Marking of polarity	
5.6	Special features of the battery lid	14
5.6.1	General	
5.6.2	Semi bloc lid	
5.6.3	Central degassing	14
5.6.4	Recessed holes	15
5.6.5	Removable cell plugs	
5.6.6	Position of sensor openings	
5.7	Handling of starter batteries by robot-equipment	
5.8	Bulging and reinforcement of battery side walls	18
6	Other battery types	19
6.1	General	
6.2	Main dimensions of batteries	
6.3	Handles	25
6.4	Mounting of batteries	25
6.4.1	General	
6.4.2	Dimensions and arrangement of ledges and notches	
6.5	Terminals	
6.5.1	Position of terminals	
6.5.2	Dimensions of battery terminals	
6.5.3	Marking of polarity	
6.6	Handling of starter batteries by robot-equipment	26
Biblioa	raphy	29

EN 50342-2:2019 (E)

European foreword

This document (EN 50342-2:2019) has been prepared by CLC/TC 21X "Secondary cells and batteries".

The following dates are fixed:

•	latest date by which this document has	(dop)	2020-08-19
	to be implemented at national level by		
	publication of an identical national		
	standard or by endorsement		

 latest date by which the national (dow) 2022-08-19 standards conflicting with this document have to be withdrawn

This document supersedes EN 50342-2:2007 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

EN 50342-2:2019 (E)

1 Scope

This document is applicable to lead-acid batteries used for starting, lighting and ignition of passenger automobiles and light commercial vehicles with a nominal voltage of 12 V.

All batteries in accordance with this document can be fastened to the vehicle either by means of the ledges around the case or by means of a hold-down device engaging with the lid.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 50342-1, Lead-acid starter batteries - Part 1: General requirements and methods of test

IEC 60050-482, International Electrotechnical Vocabulary (IEV) - Part 482: Primary and secondary cells and batteries

IEC 60417, Graphical Symbols for use on Equipment

ISO 11469, Plastics — Generic identification and marking of plastics products

ISO 1043-1, Plastics — Symbols and abbreviated terms — Part 1: Basic polymers and their special characteristics

3 Terms and definitions

For the purpose of this document, the terms and definitions given in IEC 60050-482 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

4 General requirements

4.1 General

The following specifications are common to all vehicle batteries, not only for the batteries of this standard.

4.2 Marking

4.2.1 Safety labelling

The batteries shall bear the six coloured safety symbols in accordance with EN 50342-1.

4.2.2 Marking of the polarity of terminals

4.2.2.1 **General**

The batteries shall be marked with signs for both polarities that have to be positioned near to or on the top face of the terminals.

4.2.2.2 Marking of positive terminals

This marking shall take the form of the symbol "+" either on the upper surface of the positive terminal or on the lid adjacent to the positive terminal.



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

Product Page

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