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Lead-acid starter batteries - Part 1: General requirements and methods of test

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/16

Obsahuje: EN 50342-1:2015

Oznámením tejto normy sa od 05.10.2018 ruší
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Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, 2016
Podľa zákona č. 264/1999 Z. z. v znení neskorších predpisov sa môžu slovenské technické normy
rozmnožovať a rozširovať iba so súhlasom Úradu pre normalizáciu, metrológiu a skúšobníctvo SR.

English Version

Lead-acid starter batteries - Part 1: General requirements and methods of test

Batteries d'accumulateurs de démarrage au plomb - Partie
1 : Prescriptions générales et méthodes d'essais

Blei-Akkumulatoren-Starterbatterien - Teil 1: Allgemeine
Anforderungen und Prüfungen

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
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Contents

	Page
European foreword	3
1 Scope	5
2 Normative references	5
3 General.....	5
3.1 Introduction	5
3.2 Designation of starter batteries.....	6
3.3 Condition on delivery	6
3.3.1 Specific gravity of electrolyte and open circuit voltage	6
3.3.2 Definition of fully charged new battery	6
3.4 Electrical characteristics	7
3.5 Mechanical characteristics	7
4 General requirements.....	8
4.1 Identification, labelling	8
4.2 Marking of the polarity	8
5 General test conditions	8
5.1 Sampling of batteries	8
5.2 Charging method - Definition of a fully-charged battery	9
5.3 Test equipment	9
5.3.1 Measuring instruments	9
5.3.2 Water bath	10
5.4 Test sequence	10
6 Test methods and requirements	11
6.1 Capacity check C_e	11
6.2 Cranking performance test	12
6.3 High current discharge test at low temperature	13
6.4 Charge acceptance test	13
6.5 Charge retention test.....	14
6.6 Endurance in cycle test.....	14
6.7 Corrosion test	15
6.8 Deep discharge test.....	16
6.9 Water consumption test	16
6.10 Vibration resistance test	17
6.11 Electrolyte retention test.....	19
6.11.1 Vented batteries	19
6.11.2 Valve regulated batteries	19
7 Dry-charged batteries.....	19
7.1 General.....	19
7.2 Activation of dry charged batteries	20
7.3 Testing of dry charged batteries	20
Annex A (normative) Safety labelling – Definition of the six coloured symbols	21
Annex B (normative) Correlation between C20 and RC.....	22
Annex C (normative) Battery performance marking	23
Bibliography	24

European foreword

This document (EN 50342-1:2015) has been prepared by CLC/TC 21X "Secondary cells and batteries".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2016-10-05
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2018-10-05

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

This document supersedes EN 50342-1:2006.

EN 50342, *Lead-acid starter batteries*, is currently composed of the following parts:

- *Part 1: General requirements and methods of test* [the present document];
- *Part 2: Dimensions of batteries and marking of terminals*;
- *Part 3: Terminal system for batteries with 36 V nominal voltage*;
- *Part 4: Dimensions of batteries for heavy vehicles*;
- *Part 5: Properties of battery housings and handles*;
- *Part 6: Batteries for Micro-Cycle Applications* [currently at Formal Vote stage];
- *Part 7: General requirements and methods of tests for motorcycle batteries* [currently at Formal Vote stage].

EN 50342-1:2015 includes the following significant technical changes with respect to EN 50342-1:2006:

- a) The following topics have been reworked/changed in the new version:
 - 1) simplified structure;
 - 2) correction of errors;
 - 3) updated to actual state of art of lead acid batteries;
 - 4) definition of new requirement levels and a new system for identification.
- b) The following test procedures and requirements have been updated:
 - 1) charging procedure (reworked);
 - 2) cold cranking procedure (reworked);

EN 50342-1:2015 (E)

- 3) charge retention (reworked);
- 4) deep discharge (new);
- 5) cycling (reworked);
- 6) water consumption;
- 7) vibration test procedures (reworked and new requirement level V4 added for heavy trucks).

1 Scope

This European Standard is applicable to lead-acid batteries with a nominal voltage of 12 V, used primarily as a power source for the starting of internal combustion engines, lighting and also for auxiliary equipment of internal combustion engine vehicles. These batteries are commonly called “starter batteries”. Batteries with a nominal voltage of 6 V are also included within the scope of this standard. All referenced voltages need to be divided by two for 6 V batteries.

This European Standard is applicable to batteries for the following purposes:

- batteries for passenger cars,
- batteries for commercial and industrial vehicles.

This European Standard is not applicable to batteries for other purposes, for example the starting of railcar internal combustion engines or for motorcycles.

2 Normative references

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

EN 50342–2, *Lead-acid starter batteries — Part 2: Dimensions of batteries and marking of terminals*

EN 50342–4, *Lead-acid starter batteries — Part 4: Dimensions of batteries for heavy vehicles*

EN 50342-5, *Lead-acid starter batteries — Part 5: Properties of battery housings and handles*

EN 50342–6, *Lead-acid starter batteries — Part 6: Batteries for Micro-Cycle Applications*

EN 61429, *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)*

IEC 60050–482, *International Electrotechnical Vocabulary — Part 482: Primary and secondary cells and batteries*

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