SLOVENSKI STANDARD
SIST EN 50342-1:2016/A1:2019

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Svinčeno-kislinske zaganjalne baterije - 1. del: Splošne zahteve in preskusne metode

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

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

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

Ta slovenski standard je istoveten z: **EN 50342-1:2015/A1:2018**

ICS:

29.220.20	Kislinski sekundarni členi in baterije	Acid secondary cells and batteries

SIST EN 50342-1:2016/A1:2019 **en**

EUROPEAN STANDARD

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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
Europäisches Komitee für Elektrotechnische Normung

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European foreword

This document (EN 50342-1:2015/A1:2018) has been prepared by CLC/TC 21X “Secondary cells and batteries”, the secretariat of which is held by DKE.

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)	2019-05-30
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2021-11-30

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1 Modification to 3.4.2

Give the fourth sentence

"The nominal 20 h capacity C_n is the electric charge (in Ah) that a battery can supply with a current:

$$I_n = \frac{C_n}{20\ \text{h}} \quad \text{(A)}$$

to a final voltage U_f = 10,50 V."

a separate sub clause 3.4.2.1.

2 Modification to 3.4.2

Give the last sentence

"The *effective capacity* C_e shall be determined by discharging a battery with constant current I_n to U_f = 10,50 V (see 6.1)."

a separate sub clause 3.4.2.2.

3 Modification to 4.1

Change item e) in 4.1 to

e) the six coloured safety signs as specified in Annex A, Safety labelling;

4 Modification to 5.4

Change the sentence after item f) from

"For C_e and the cranking performance the specified values shall be met in at least one of the relevant discharges above."

To

"The combination of C_e and cranking performance test is considered as one block (eg a) and b) are one block). For C_e and the cranking performance the specified values shall be met both in at least one block of the relevant discharges above."

5 Modification to Table 3

Delete the "X" in Step 10 column 2.

Delete the "X" in Step 11 column 2.

6 Modification to 6.1.3

Change the *first sentence from*

"From each single test sequence, the maximum value of all performed capacity tests is taken to calculate the mean value of the 20-h capacity over the six batteries as"

to

"From each single battery sample of the test sequence, the maximum value of all performed capacity tests (Steps 2, 4 and 6 of Table 3) of this sample is taken. Using these values to calculate the mean value of the 20-h effective capacity over the six batteries as"

7 Modification to Table 5

Change the headline of the third column from

”Charging voltage U”

to

“Recommended charging voltage U”

8 Modification to Table 5

Change the Charging voltage for batteries according to EN 50342-4 from

“15,6 V”

to

“14,4 V for VRLA

15,6 V for flooded”

9 Modification to 6.6.8

Change the sentence after Table 6 from

“The requirement for the capacity test (with preceding charging according to 5.2) according to step 11 of Table 3 is:”

to

“After having performed a full charging according to 5.2 the requirement for the capacity test according to step 11 of Table 3 is:”

10 Modification to 6.6.8

Change the formula from

“$Ce \geq 0{,}5\ C_{20}$”

to

“$C_e \geq 0{,}5\ C_n$”

11 Modification to 6.7.6

Change to

“The battery shall then be recharged for 6 h at a voltage of 16,0 V (VRLA 14,8 V) and a current limitation of 5 I_n”

12 Modification to Table 7

Replace

“ECE 37”

by

“ECE/TRANS/WP.29/343 Regulation 37”

13 Modification to title of Annex A

Change title of Annex A to

"Safety labelling – Definition of the six coloured safety signs"

14 Modification to Annex A

Delete the whole Annex A and replace by:

The six safety signs mentioned in 4.1 e) are defined by ISO 7010 and shown in Figure A.1

Reference	Description	Safety signs
ISO 7010 P003	No open flame; Fire, open ignition source and smoking prohibited	
ISO 7010 M004	Wear eye protection	
ISO 7010 P036	No children allowed	
ISO 7010 W023	Warning; Corrosive substance	
ISO 7010 M002	Refer to instruction manual/booklet	
ISO 7010 W002	Warning; Explosive material	

Figure A.1 — Definition of safety signs according ISO 7010

The individual signs shall have common dimensions as shown in Figure A.2 with minimum dimensions of 10 mm.