



SLOVENSKI STANDARD

SIST EN 61427-1:2014

01-maj-2014

Nadomešča:
SIST EN 61427:2006

Sekundarni člani in baterije za shranjevanje obnovljive energije - Splošne zahteve in preskusne metode - 1. del: Uporaba fotonapetostnih elementov zunaj elektroenergetskega omrežja (IEC 61427-1:2013)

Secondary cells and batteries for Renewable Energy Storage - General Requirements and methods of test - Part 1: Photovoltaic Off grid application

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Eléments et batteries d'accumulateurs pour le stockage des énergies renouvelables - Prescriptions générales et méthodes d'essai - Partie 1: Application photovoltaïque isolée du réseau électrique

Ta slovenski standard je istoveten z: EN 61427-1:2013

ICS:

27.160	Sončna energija	Solar energy engineering
29.220.20	Kislinski sekundarni člani in baterije	Acid secondary cells and batteries

SIST EN 61427-1:2014 en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61427-1

July 2013

ICS 27.160; 29.220.20

Supersedes EN 61427:2005

English version

**Secondary cells and batteries for renewable energy storage -
General requirements and methods of test -
Part 1: Photovoltaic off-grid application
(IEC 61427-1:2013)**

Accumulateurs pour le stockage de
l'énergie renouvelable -
Exigences générales et méthodes
d'essais -
Partie 1: Applications photovoltaïques
hors réseaux
(CEI 61427-1:2013)

Wiederaufladbare Zellen und Batterien für
die Speicherung erneuerbarer Energien -
Allgemeine Anforderungen und
Prüfverfahren -
Teil 1: Photovoltaische netzunabhängige
Anwendung
(IEC 61427-1:2013)

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CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 21/793/FDIS, future edition 1 of IEC 61427-1, prepared by IEC/TC 21 "Secondary cells and batteries" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61427-1:2013.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2014-02-28
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2016-05-28

This document supersedes EN 61427:2005.

EN 61427-1:2013 includes the following significant technical changes with respect to EN 61427:2005:

a) a restructuration of the previous edition of the document;

b) a clarification of the different clauses with regard to conditions of use, general requirements, functional characteristics, general tests conditions, test method and recommended use of tests, the aim being to ensure a better understanding by the end user;

c) a clear distinction between on-grid and off-grid applications for future markets needs.

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Endorsement notice

The text of the International Standard IEC 61427-1:2013 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 60721-1 NOTE Harmonised as EN 60721-1.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050	Series	International Electrotechnical vocabulary (IEV)-		-
IEC 60622	-	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Sealed nickel-cadmium prismatic rechargeable single cells	EN 60622	-
IEC 60623	-	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Vented nickel-cadmium prismatic rechargeable single cells	EN 60623	-
IEC 60896-11	-	Stationary lead-acid batteries - Part 11: Vented types - General requirements and methods of tests	EN 60896-11	-
IEC 60896-21	-	Stationary lead-acid batteries - Part 21: Valve regulated types - Methods of test	EN 60896-21	-
IEC 61056-1	-	General purpose lead-acid batteries (valve-regulated types) - Part 1: General requirements, functional characteristics - Methods of test	EN 61056-1	-
IEC 61836	-	Solar photovoltaic energy systems - Terms, definitions and symbols	-	-
IEC 61951-1	-	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Portable sealed rechargeable single cells - Part 1: Nickel-cadmium	EN 61951-1	-
IEC 61951-2	-	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Portable sealed rechargeable single cells - Part 2: Nickel-metal hydride	EN 61951-2	-
IEC 61960	-	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications	EN 61960	-
IEC 62259	-	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Nickel-cadmium prismatic secondary single cells with partial gas recombination	EN 62259	-

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

Secondary cells and batteries for renewable energy storage – General requirements and methods of test – Part 1: Photovoltaic off-grid application

Accumulateurs pour le stockage de l'énergie renouvelable – Exigences générales et méthodes d'essais – Partie 1: Applications photovoltaïques hors réseaux

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**SECONDARY CELLS AND BATTERIES
FOR RENEWABLE ENERGY STORAGE –
GENERAL REQUIREMENTS AND METHODS OF TEST –****Part 1: Photovoltaic off-grid application**

FOREWORD

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International Standard IEC 61427-1 has been prepared by IEC technical committee 21: Secondary cells and batteries.

This first edition cancels and replaces the second edition of IEC 61427 published in 2005. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) a restructuration of the previous edition of the document;
- b) a clarification of the different clauses with regard to conditions of use, general requirements, functional characteristics, general tests conditions, test method and recommended use of tests, the aim being to ensure a better understanding by the end user;
- c) a clear distinction between on-grid and off-grid applications for future markets needs.

The text of this standard is based on the following documents:

FDIS	Report on voting
21/793/FDIS	21/802/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 61427 series, published under the general title *Secondary cells and batteries for renewable energy storage – General requirements and methods of test*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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