



**SLOVENSKI STANDARD**  
**SIST EN 61829:2001**  
**01-september-2001**

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**Fotonapetostno polje iz kristalnega silicija – Merjenje karakteristike I-U na mestu vgradnje**

Crystalline silicon photovoltaic (PV) array - On-site measurement of I-V characteristics

Photovoltaische (PV) Modulgruppen aus kristallinem Silizium - Messen der Strom-/Spannungskennlinien am Einsatzort

Champ de modules photovoltaïques (PV) au silicium cristallin - Mesure sur site des caractéristiques I-V

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**Ta slovenski standard je istoveten z: EN 61829:1998**

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**ICS:**

27.160

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Solar energy engineering

**SIST EN 61829:2001**

**en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 61829**

August 1998

ICS 27.160

English version

**Crystalline silicon photovoltaic (PV) array  
On-site measurement of I-V characteristics  
(IEC 61829:1995)**

Champ de modules photovoltaïques (PV)  
au silicium cristallin  
Mesure sur site des caractéristiques I-V  
(CEI 61829:1995)

Photovoltaische (PV) Modulgruppen  
aus kristallinem Silizium  
Messen der Strom-/Spannungskennlinien  
am Einsatzort  
(IEC 61829:1995)

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This European Standard was approved by CENELEC on 1998-08-01. 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and 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 the International Standard IEC 61829:1995, prepared by IEC TC 82, Solar photovoltaic energy systems, was submitted to the formal vote and was approved by CENELEC as EN 61829 on 1998-08-01 without any modification.

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) 1999-08-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 1999-08-01

Annexes designated "normative" are part of the body of the standard.  
Annexes designated "informative" are given for information only.  
In this standard, annex ZA is normative and annex A is informative.  
Annex ZA has been added by CENELEC.

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### Endorsement notice

The text of the International Standard IEC 61829:1995 was approved by CENELEC as a European Standard without any modification.

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## Annex ZA (normative)

Normative references to international publications  
with their corresponding European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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 60891	1987	Procedures for temperature and irradiance corrections to measured I-V characteristics of crystalline silicon photovoltaic devices		
+ A1	1992		EN 60891	1994
IEC 60904-1	1987	Photovoltaic devices Part 1: Measurement of photovoltaic current-voltage characteristics	EN 60904-1	1993
IEC 60904-2	1989	Part 2: Requirements for reference solar cells	EN 60904-2	1993
IEC 60904-3	1989	Part 3: Measurement principles for terrestrial photovoltaic (PV) solar devices with reference spectral irradiance data	EN 60904-3	1993
IEC 60904-6	1994	Part 6: Requirements for reference solar modules	EN 60904-6	1994
IEC QC 001002	1986	Rules of Procedure of the IEC Quality Assessment System for Electronic Components (IECQ)	-	-
A1	1992			

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NORME  
INTERNATIONALE  
INTERNATIONAL  
STANDARD

CEI  
IEC  
1829

Première édition  
First edition  
1995-03

Champ de modules photovoltaïques (PV)  
au silicium cristallin –  
Mesure sur site des caractéristiques I-V

iTeh STANDARD PREVIEW  
Crystalline silicon photovoltaic (PV) array –  
(On-site measurement) of I-V characteristics

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International Electrotechnical Commission  
Международная Электротехническая Комиссия

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## CONTENTS

	Page
FOREWORD .....	5
Clause	
1 Scope and object .....	7
2 Normative references .....	7
3 Measurement procedures (methods A and B) .....	9
4 Equipment .....	9
4.1 Equipment common to methods A and B .....	9
4.2 Additional equipment needed for method A .....	9
4.3 Additional equipment needed for method B .....	11
5 Procedure .....	11
5.1 Method A .....	11
5.2 Method B .....	15
6 Accuracy .....	15
Figure .....	17
Annex A – Glossary .....	19

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**CRYSTALLINE SILICON PHOTOVOLTAIC (PV) ARRAY –  
ON-SITE MEASUREMENT OF I-V CHARACTERISTICS**

## FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international cooperation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters, prepared by technical committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 3) They have the form of recommendations for international use published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.

International Standard IEC 1829 has been prepared by IEC technical committee 82: Solar photovoltaic energy systems.

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

DIS	Report on voting
82(CO)36	82(CO)61

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

Annex A is for information only.