



SLOVENSKI STANDARD

SIST EN 62053-61:2001

01-februar-2001

Electricity metering equipment (a.c.) - Particular requirements - Part 61: Power consumption and voltage requirements

Electricity metering equipment (a.c.) -- Particular requirements -- Part 61: Power consumption and voltage requirements

Einrichtungen zur Messung der elektrischen Energie (AC) -- Besondere Anforderungen -- Teil 61: Leistungsaufnahme und Spannungsanforderungen

Equipement de comptage de l'électricité (c.a.) -- Prescriptions particulières -- Partie 61: Puissance absorbée et prescriptions de tension

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Ta slovenski standard je istoveten z: EN 62053-61:1998

ICS:

91.140.50 Sistemi za oskrbo z elektriko Electricity supply systems

SIST EN 62053-61:2001

en

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ICS 91.140.50

Descriptors: Electricity metering, static meter, multi-energy meter, multi-function meter, power consumption, voltage requirements

English version

**Electricity metering equipment (a.c.)
Particular requirements
Part 61: Power consumption and voltage requirements
(IEC 62053-61:1998)**

Équipement de comptage de l'électricité
(c.a.) - Prescriptions particulières
Partie 61: Puissance absorbée et
prescriptions de tension
(CEI 62053-61:1998)

Einrichtungen zur Messung der
elektrischen Energie (AC)
Besondere Anforderungen
Teil 61: Leistungsaufnahme und
Spannungsanforderungen
(IEC 62053-61:1998)

This European Standard was approved by CENELEC on 1998-04-01. 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 document 13/1135/FDIS, future edition 1 of IEC 61899, prepared by IEC TC 13, Equipment for electrical energy measurement and load control, was submitted to the IEC-CENELEC parallel vote. The document was published by IEC as IEC 62053-61 and was approved by CENELEC as EN 62053-61 on 1998-04-01.

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) 1999-01-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2001-01-01

This standard is to be used in conjunction with EN 61036.

Annexes designated "normative" are part of the body of the standard.
In this standard, annex ZA is normative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 62053-61:1998 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 60687	1992	Alternating current static watt-hour meters for active energy (classes 0,2 S and 0,5 S)	EN 60687 + corr. March	1992 1993
IEC 61036	1996	Alternating current static watt-hour meters for active energy (classes 1 and 2)	EN 61036	1996
IEC 61268	1995	Alternating current static var-hour meters for reactive energy (classes 2 and 3)	EN 61268	1996

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 http://www.csih.ai/csih.org/standards/sist/9d531d55-6fbd-40be-b8c0-b83b7d33837f/sist-en-60687-61-2001

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NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC

62053-61

Première édition
First edition
1998-02

**Equipement de comptage de l'électricité (c.a.) –
Prescriptions particulières –**

**Partie 61:
Puissance absorbée et prescriptions de tension**

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**Part 61:
Power consumption and voltage requirements**

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTRICITY METERING EQUIPMENT (AC) –
PARTICULAR REQUIREMENTS –

Part 61: Power consumption and voltage requirements

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 co-operation 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 express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are 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.
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- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 62053-61 has been prepared by IEC technical committee 13: Equipment for electrical energy measurement and load control.

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

FDIS	Report on voting
13/1135/FDIS	13/1143/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 standard shall be used in conjunction with IEC 61036.

ELECTRICITY METERING EQUIPMENT (AC) – PARTICULAR REQUIREMENTS –

Part 61: Power consumption and voltage requirements

1 Scope

This International Standard applies only to newly manufactured "combined meters", measuring more than one type of electric energy (e.g. active and reactive) and meters integrating additional functions which are not in the scope of the IEC 60687, IEC 61036, IEC 61268 standards and the standard in preparation for static apparent energy meters; these additional functions, all related to electric energy metering are, for instance, maximum demand indicator, time switches, ripple control or radio receivers, etc.

When other devices and functions not related to electric energy metering and billing are enclosed in the same meter case (such as power line carrier devices, load curve recording devices, telephone and radio transceiver or network current and voltage measurement and analysis devices, etc.) this standard applies only to the energy metering and processing section.

For all the meter characteristics and functions already described in existing standards, these standards will apply for the corresponding characteristics and functions.

2 Normative references

[SIST EN 62053-61:2001](#)

<https://standards.iteh.ai/catalog/standards/sist/9d531d55-6fbd-40be-b8c0-017601a18101/iec-62053-61-2001>

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 62053. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this part of IEC 62053 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 60687:1992, *Alternating current static watt-hour meters for active energy (classes 0,2 S and 0,5 S)*

IEC 61036:1996, *Alternating current static watt-hour meters for active energy (classes 1 and 2)*

IEC 61268:1995, *Alternating current static var-hour meters for reactive energy (classes 2 and 3)*

3 Definitions

For the purpose of this International Standard, the following definitions apply.

3.1

multi-energy meter

meter which, in a single case, measures two or three types of energies (watt-hour, var-hour, VA-hour)