



**Electricity metering equipment (a.c.)—
Particular requirements**

**Part 61: Power consumption and
voltage requirements (IEC 62053-
61:1998, MOD)**

STANDARDS
Australia



AS 62053.61:2018

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- Australian Chamber of Commerce and Industry
- Australian Energy Council
- Australian Energy Market Operator
- Australian Industry Group
- Consumers' Federation of Australia
- Electrical Regulatory Authorities Council
- Energy Networks Australia
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Preface

This Standard was prepared by the Standards Australia Committee EL-011, Electricity Metering Equipment.

The objective of this 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 AS 62052.11, AS 62053.21, AS 62053.22 and AS 62063.23 standards; these additional functions, all related to electric energy metering are, for instance, maximum demand indicator, time switches, ripple control or radio receivers, etc.

This Standard is an adoption with national modifications, and has been reproduced from, IEC 62053-61:1998 (ED 1.0), *Electricity metering equipment (a.c.) — Particular requirements — Part 61: Power consumption and voltage requirements*.

[Appendix ZZ](#) lists the variations for the application of this Standard in Australia.

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- (a) In the source text “this part of IEC 62053” and “this International Standard” should read “this Australian Standard”.
- (b) A full point substitutes for a comma when referring to a decimal marker.

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The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRICITY METERING EQUIPMENT (AC) –
PARTICULAR REQUIREMENTS –**
Part 61: Power consumption and voltage requirements

FOREWORD

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- 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.
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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

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)