

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Household electric instantaneous water heaters – Methods for measuring the performance –
Part 1: General aspects**

**Chauffe-eau instantanés électrodomestiques – Méthodes de mesure de
l'aptitude à la fonction –
Partie 1: Aspects généraux**



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CONTENTS

FOREWORD.....	3
1 Scope.....	5
2 Normative references	5
3 Terms and definitions	5
4 General test conditions.....	7
4.1 Measurement equipment.....	7
4.2 Number of appliances to be tested.....	8
4.3 General conditions.....	8
4.4 Test setup.....	9
5 Energy efficiency	9
5.1 Test methods	9
5.1.1 General	9
5.1.2 Static efficiency	9
5.1.3 Start-up losses	10
5.2 Calculation methods	11
5.2.1 General	11
5.2.2 Daily energy demand.....	11
5.2.3 Efficiency calculation	11
6 Performance tests	12
Annex A (normative) Load pattern.....	13
Annex B (normative) Test setup.....	17
Bibliography.....	21
Figure B.1 – Test setup for open outlet instantaneous water heater	17
Figure B.2 – Test setup for closed inlet instantaneous water heater	18
Figure B.3 – Temperature sensor water connection part	19
Figure B.4 – Example of a thermocouple feed through	20
Table 1 – Measurement equipment accuracy	8
Table A.1 – Water heater load patterns (reference test tapping patterns) 3XS to S	14
Table A.2 – Water heater load patterns (reference test tapping patterns) M to XL	15
Table A.3 – Water heater load patterns (reference test tapping patterns) XXL to 4XL	16

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**HOUSEHOLD ELECTRIC INSTANTANEOUS WATER HEATERS –
METHODS FOR MEASURING THE PERFORMANCE –****Part 1: General aspects****FOREWORD**

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International Standard IEC 63159-1 has been prepared by subcommittee 59C: Electrical heating appliances for household and similar purposes, of IEC technical committee 59: Performance of household and similar electrical appliances.

The text of this International Standard is based on the following documents:

Draft	Report on voting
59C/267/FDIS	59C/271/RVD

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

The language used for the development of this International Standard is English.

A list of all the parts in the IEC 63159 series, published under the general title *Household electric instantaneous water heaters – Methods for measuring the performance*, can be found on the IEC website.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

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HOUSEHOLD ELECTRIC INSTANTANEOUS WATER HEATERS – METHODS FOR MEASURING THE PERFORMANCE –

Part 1: General aspects

1 Scope

This document applies to electric instantaneous water heaters for domestic hot water heating for household and similar applications, which show both of the following characteristics:

- fulfilling at least one load pattern from Annex A;
- heating up to temperatures below the boiling temperature.

This document specifies terms, definitions and measurement methods for the assessment of energy efficiency.

This document does not take into account requirements regarding the safety of the appliances.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 63159-2-1, *Household electric instantaneous water heaters – Methods for measuring the performance – Part 2-1: Multifunctional electric instantaneous water heaters*

IEC 63159-2-2, *Household electric instantaneous water heaters – Methods for measuring the performance – Part 2-2: Efficiency of single point of use electric instantaneous water heaters*

ISO 2768-1, *General tolerances – Part 1: Tolerances for linear and angular dimensions without individual tolerance indications*

ISO 228-1, *Pipe threads, where pressure-tight joints are not made on the threads – Part 1: Dimensions, tolerances and designation*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1

instantaneous water heater

appliance intended to heat water while it flows through the appliance