

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

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

**Chauffe-eau instantanés électrodomestiques – Méthodes de mesure de l'aptitude à la fonction –  
Partie 2-2: Rendement des chauffe-eau instantanés électriques à un seul point d'utilisation**



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IEC Central Office  
3, rue de Varembe  
CH-1211 Geneva 20  
Switzerland

Tel.: +41 22 919 02 11  
[info@iec.ch](mailto:info@iec.ch)  
[www.iec.ch](http://www.iec.ch)

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**HOUSEHOLD ELECTRIC INSTANTANEOUS WATER HEATERS –  
METHODS FOR MEASURING THE PERFORMANCE –****Part 2-2: Efficiency of single point of use electric  
instantaneous water heaters**

## FOREWORD

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International Standard IEC 63159-2-2 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/269/FDIS	59C/273/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.

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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

This International Standard is to be used in conjunction with IEC 63159-1:2021.

This standard supplements or modifies the corresponding clauses in IEC 63159-1. When a particular subclause of IEC 63159-1 is not mentioned in this standard, that subclause is applicable as far as reasonable. Where this standard states "addition", "modification" or "replacement", the relevant requirements, test specifications or explanatory matter in IEC 63159-1 should be adapted accordingly.

Subclauses or figures that are additional to those in IEC 63159-1 are numbered starting from 101. Additional annexes are lettered AA, BB, etc.

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.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under [webstore.iec.ch](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

- reconfirmed,
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# HOUSEHOLD ELECTRIC INSTANTANEOUS WATER HEATERS – METHODS FOR MEASURING THE PERFORMANCE –

## Part 2-2: Efficiency of single point of use electric instantaneous water heaters

### 1 Scope

This clause of IEC 63159-1:2021 is applicable except as follows.

*Addition:*

This document applies to open outlet, single point-of-use, electric instantaneous water heaters intended for household or similar use, for showering purposes without downstream mixing.

This document only specifies tests for the assessment of energy efficiency.

This document does not apply to electrical instantaneous water heaters covered by other parts of this series of standards.

### 2 Normative references

This clause of IEC 63159-1:2021 is applicable with the following exception:

*Addition:*

IEC 63159-1:2021, *Household electric instantaneous water heaters – Methods for measuring the performance – Part 1: General aspects*

### 3 Terms and definitions

This clause of IEC 63159-1:2021 is applicable.

### 4 General test conditions

This clause of IEC 63159-1:2021 is applicable except as follows.

#### 4.3 General conditions

*Addition:*

##### 4.3.101 Pressure, temperature, flow, and power conditions

Pressure, temperature, and flow measurements should be maintained during testing to the tolerance detailed in Table 1. Any deviations from these tolerances will result an invalid test. All tests shall be performed at maximum power setting.