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Methods for measuring the performance of electric storage water heaters for household purposes



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NATIONAL FOREWORD

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English Version

Methods for measuring the performance of electric storage water heaters for household purposes (IEC 60379:2023)

Méthodes de mesure de l'aptitude à la fonction des chauffe-eau électriques à accumulation à usages domestiques
(IEC 60379:2023)

Verfahren zur Messung der Gebrauchseigenschaften von elektrischen Warmwasserspeichern für den Hausgebrauch
(IEC 60379:2023)

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European foreword

The text of document 59C/282/FDIS, future edition 4 of IEC 60379, prepared by SC 59C "Electrical heating appliances for household and similar purposes" of IEC/TC 59 "Performance of household and similar electrical appliances" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60379:2023.

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INTERNATIONAL STANDARD

NORME INTERNATIONALE



Methods for measuring the performance of electric storage water heaters for household purposes

Méthodes de mesure de l'aptitude à la fonction des chauffe-eau électriques à accumulation à usages domestiques



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INTERNATIONAL STANDARD

NORME INTERNATIONALE



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Méthodes de mesure de l'aptitude à la fonction des chauffe-eau électriques à accumulation à usages domestiques

INTERNATIONAL
ELECTROTECHNICAL
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**METHODS FOR MEASURING THE PERFORMANCE
OF ELECTRIC STORAGE WATER HEATERS
FOR HOUSEHOLD PURPOSES****FOREWORD**

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IEC 60379 has been prepared by subcommittee SC59C: Electrical heating appliances for household and similar purposes, of IEC technical committee 59: Performance of household and similar electrical appliances. It is an International Standard.

This fourth edition cancels and replaces the third edition published in 1987. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) sustainable development aspects of EU legislation are taken into account, including features such as smart control, V_{40} modification and measuring procedures for multi-tank appliances.

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

Draft	Report on voting
59C/282/FDIS	59C/285/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. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

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METHODS FOR MEASURING THE PERFORMANCE OF ELECTRIC STORAGE WATER HEATERS FOR HOUSEHOLD PURPOSES

1 Scope

This document specifies methods for measuring the performance of electric storage water heaters to produce domestic potable or non-potable hot water for household and similar use.

The object is to state and define the principal performance characteristics of electric storage water heaters and to describe the test methods for measuring these characteristics.

NOTE 1 This document does not apply to:

- storage water heaters that use electricity as a secondary source of heating the water;
- storage water heaters that do not use a tank to store hot water;
- electric storage water heaters that do not meet the minimum (or maximum) output performance of the smallest (or biggest) load profile, as defined in Table 3;
- water-heaters without thermal insulation.

NOTE 2 This document does not specify safety requirements. For safety requirements, see IEC 60335-1 in conjunction with IEC 60335-2-21.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

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

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

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

3.1

storage water heater

water heater that uses electric heating elements as the means of heating water for long-term storage in a thermally insulated container and provided with a device to control the water temperature

3.2

primary function

production of hot water for household and similar needs

3.3

energized storage water heater

storage water heater that is designed to supply hot water and be energized for 24 h per day