



BSI Standards Publication

Electric clothes washer-dryers for household use — Methods for measuring the performance

National foreword

This British Standard is the UK implementation of EN IEC 62512:2020+A11:2020. It is derived from IEC 62512:2012. It supersedes BS EN 50229:2015, which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to text carry the number of the CENELEC amendment. For example, text altered by CENELEC amendment A11 is indicated by A11 A11.

The UK participation in its preparation was entrusted to Technical Committee CPL/59, Performance of household electrical appliances.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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EN IEC 62512:2020+A11

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and corrigenda (if any)

English Version

**Electric clothes washer-dryers for household use - Methods for
measuring the performance
(IEC 62512:2012 , modified)**

Lavantes-séchantes électriques à usage domestique -
Méthodes de mesure de l'aptitude à la fonction
(IEC 62512:2012 , modifiée)

Elektrische Wasch-Trockner für den Hausgebrauch -
Prüfverfahren zur Bestimmung der
Gebrauchseigenschaften
(IEC 62512:2012 , modifiziert)

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European foreword

The text of document 59D/403/FDIS, future edition 1 of IEC 62512, prepared by SC 59D "Performance of household and similar electrical laundry appliances" 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 62512:2020.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2021-05-13
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-11-13

This document supersedes EN 50229:2015 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of EN IEC 62512:2020+A11:2020.

Endorsement notice

The text of the International Standard IEC 62512:2012 was approved by CENELEC as a European Standard without any modification.

Foreword to amendment A11

This document (EN IEC 62512:2020/A11:2020) consists of the text of IEC 62512:2012 prepared by IEC/SD 59, "Home laundry appliances", together with the common modifications prepared by CLC/TC 59X "Performance of household and similar electrical appliances".

The following dates are fixed:

- latest date by which this document has to be (dop) 2021-07-21 implemented at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards (dow) 2023-10-21 conflicting with this document have to be withdrawn

This document supersedes EN 50229:2015.

Significant technical differences are:

- a the definition of the loads to be tested in continuous, segmented and **interrupted operation cycles**;
- b the method for testing automatic and not automatic **operation** of the **drying cycles**;
- c the way to handle the load for **interrupted operation cycles**;
- d the correction to be applied to test results for continuous and **interrupted operation cycles**;
- e the definition of a procedure for a **segmented operation cycle** to simulate a continuous **wash and dry cycle**, if the machine does not offer those **programme** setting;
- f the test procedure for the performance measurements for **multi-drum** washer dryers according to EU energy label regulation.

This document also specifies, as far as necessary, the test method for household washing machines in accordance with the COMMISSION DELEGATED REGULATION (EU) 2019/2014 of 11 March 2019 supplementing Regulation 2017/1369 of the European Parliament and of the Council with regard to energy labelling of household washing machines and household **washer-dryers** and repealing Commission Regulation (EU) No 1061/2010 and Commission Directive 96/60/EC and in accordance with the COMMISSION REGULATION (EU) 2019/2023 of 1 October 2019 laying down ecodesign requirements for household washing machines and household **washer-dryers** pursuant to Directive 2009/125/EC of the European Parliament and of the Council, amending Commission Regulation (EC) No 1275/2008 and repealing Commission regulation (EU) No 1015/2010.

Clauses, notes, tables, figures and annexes which are additional to those in IEC 62512:2012 are prefixed "Z".

Annex ZA sets out the procedure to be applied for testing according to Commission Regulations with regard to energy labelling and ecodesign and provides all necessary links to all relevant clauses of this document.

This document has been prepared in view of the upcoming Standardization Request which will be given to CENELEC by the European Commission and the European Free Trade Association and supports Commission Delegated Regulation (EU) 2019/2014 and Commission Regulation (EU) 2019/2023.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

EN IEC 62512:2020+A11:2020 (E)

For the relationship with Commission Delegated Regulation (EU) 2019/2014 and Commission Regulation (EU) 2019/2023 informative Annex ZZA and Annex ZZB will be published following the adoption of the Standardization Request.

Endorsement notice

The text of the International Standard IEC 62512:2012 was approved by CENELEC as a European Standard with agreed common modifications.

Annex ZA (normative)

Test procedure for assessing the performance of a washer-dryer with respect to the eco 40-60 programme and with respect to the wash and dry complete operation cycle

ZA.1 General

ZA.1.1 Intent

The intent of the procedures as set out in this Annex is the determination of performance and related parameters for

- a) **Full load, half load and quarter load** for the **washing cycle** of a **washer-dryer**. Testing of the **washing cycle** of the **washer-dryer** shall be performed according to EN 60456:2016+A11:2020.
- b) **Full load and half load** for the **complete operation cycle** of a **washer-dryer**.

ZA.1.2 Complete operation cycle

ZA.1.2.1 Programme setting

The **programme** setting for the **complete operation cycle** shall be the **wash and dry cycle** as described in chapter 7.

ZA.1.2.2 Treatments

The **test series** to measure the performance and related parameters of the **wash and dry cycle** is defined as a **test series** of the **complete operation cycles** consisting of 2 **treatments** with 7 **test runs** in total, as follows:

- **treatment full: 3 test runs;**
- **treatment half: 4 test runs.**

The **reference washing machine** shall be operated in parallel using the defined load size of 5,00 kg with a **test series** of 5 **test runs** using the IEC Cotton 60 °C **programme**.

NOTE ZA.4.4 describes the parallel **operation** of the reference washing machine and the test **washer-dryer**.

ZA.1.2.3 Rounding

Rounding of calculated values shall be handled according to Clause 9.1.

If a value reported in ZA.6 is an intermediate required for use in the calculation of other values, then rounding shall only apply to the format of the intermediate in ZA.6; the rounding shall not apply prior to its use in subsequent calculations.