IEC 62885-4

Edition 1.1 2023-07
CONSOLIDATED VERSION

INTERNATIONAL STANDARD

NORME INTERNATIONALE

colour inside

Surface cleaning appliances –
Part 4: Cordless dry vacuum cleaners for household or similar use – Methods for measuring the performance

Appareils de nettoyage des sols –
Partie 4: Aspirateurs à sec sans fil à usage domestique ou analogue – Méthodes de mesure de l'aptitude à la fonction



IEC 62885-4:2020-07+AMD1:2023-07 CSV(en-fr)



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VERSION REDLINE

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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SURFACE CLEANING APPLIANCES –

Part 4: Cordless dry vacuum cleaners for household or similar use – Methods for measuring the performance

FOREWORD

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This consolidated version of the official IEC Standard and its amendment has been prepared for user convenience.

IEC 62885-4 edition 1.1 contains the first edition (2020-07) [documents 59F/397/FDIS and 59F/404/RVD] and its amendment 1 (2023-07) [documents 59F/472/FDIS and 59F/477/RVD].

In this Redline version, a vertical line in the margin shows where the technical content is modified by amendment 1. Additions are in green text, deletions are in strikethrough red text. A separate Final version with all changes accepted is available in this publication.

International Standard IEC 62885-4 has been prepared by subcommittee 59F: Surface cleaning appliances, of IEC technical committee 59: Performance of household and similar electrical appliances.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

This standard is to be read in conjunction with IEC 62885-2:~~2016~~2021, to which it refers, and which is applicable unless otherwise specified in this standard. In order to simplify the indication of corresponding requirements, the same numbering of clauses and subclauses is used as in IEC 62885-2:~~2016~~2021. Amendments to these clauses and subclauses are given under the same references whilst additional subclauses, tables, figures and notes are numbered from 101. Additional annexes are lettered AA, BB, etc.

A list of all the parts in the IEC 62885 series, under the general title *Surface cleaning appliances*, can be found on the IEC website.

In this standard, the following print types are used:

– terms defined in Clause 3: **bold type**

Where the term **dry vacuum cleaner** is used, it shall be read **cordless dry vacuum cleaner**.

The committee has decided that the contents of this document and its amendment will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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SURFACE CLEANING APPLIANCES –

Part 4: Cordless dry vacuum cleaners for household or similar use – Methods for measuring the performance

1 Scope

This part of IEC 62885 is applicable to measurements of the performance of **cordless dry vacuum cleaners** for household use or under conditions similar to those in households. The results obtained under this document are intended to be comparable to the results obtained under IEC 62885-2 for mains-connected vacuums.

The purpose of this document is to specify essential performance characteristics of **cordless dry vacuum cleaners** which are of interest to users and to describe methods for measuring these characteristics.

NOTE 1 Owing to the influence of environmental conditions, variations in time, origin of test materials and proficiency of the operator, most of the described test methods give more reliable results when applied to comparative testing of a number of appliances at the same time, in the same laboratory and by the same operator.

NOTE 2 This document is not intended for mains-operated vacuum cleaners or cleaning robots.

NOTE 3 Cordless handheld vacuums are excluded, except for 5.7.2 and 5.8.

For safety requirements, reference is made to IEC 60335-1 and IEC 60335-2-2.

A recommendation on information for the consumer at the point of sale is given in Annex B of IEC 62885-2.

2 Normative references

Clause 2 of IEC 62885-2:~~2016~~2021 applies with the following addition:

IEC 62885-2:~~2016~~2021, *Surface cleaning appliances – Part 2: Dry vacuum cleaners for household or similar use – Methods for measuring the performance*

IEC 62301:2011, *Household electrical appliances – Measurement of standby power*

3 Terms and definitions

Clause 3 of IEC 62885-2:~~2016~~2021 applies with following additions.

3.101
cordless dry vacuum cleaner
dry vacuum cleaner that is not mains-operated

Note 1 to entry: The term "cordless" is equivalent to "battery-operated" throughout the document.

3.102
fully charged
point during charging when, according to the manufacturer's instructions, by indicator or time period, the product does not need to be charged anymore (see 4.6.101 for specific charging instructions)

3.103
fully discharged
point in use when the manufacturer's instructions state the product is **fully discharged** or the vacuum motor stops spinning, whichever comes first

3.104
charging time
time required to **fully charge** a cordless dry vacuum cleaner from a **fully discharged** condition

3.105
replacement battery
battery that is identical in type, fit and performance to the battery supplied with the cordless product, and is changeable without tools

3.106
runtime
effective cleaning time provided by a cordless dry vacuum cleaner from a **fully charged** condition as per 3.102 until the vacuum has dropped to less than 40 % of initial suction performance or when the vacuum is **fully discharged** as per 3.103, whichever comes first

4 General conditions for testing

Clause 4 of IEC 62885-2:~~2016~~2021 applies with the following modifications.

4.3 Voltage and frequency

Replace the content of 4.3 of IEC 62885-2:~~2016~~2021 with the following:

Unless otherwise stated, charging for measurements shall be carried out at rated voltage with a tolerance of ±1 % and, if applicable, at rated frequency.

Cordless dry vacuum cleaner chargers not marked with rated frequency shall be powered at either (50 ± 1) Hz or (60 ± 1) Hz with a total harmonic distortion < 3 %, as is common in the country of use. All charging should occur at the nominal system voltage of the country concerned.

4.4 Running-in of dry vacuum cleaner

Replace the heading and content of 4.4 of IEC 62885-2:~~2016~~2021 with the following:

4.4 Running-in of cordless dry vacuum cleaner

Prior to the first test (and following preparations in line with the manufacturer's instructions) on a new **cordless dry vacuum cleaner**, it shall be **fully charged** in accordance with the manufacturer's instructions and then discharged by running with unrestricted air flow. The sequence shall be repeated one more time with an interval of at least 30 min after each discharge. No operation shall be carried out during this waiting time. For **active nozzles** during discharge, the agitation device shall be running but not in contact with the floor.

Prior to conducting any series of tests, the age, condition, and history of the product shall be recorded.