

TECHNICAL SPECIFICATION

**Household and similar appliances – Subsequent safety testing after repair,
refurbishment, and remanufacturing –
Part 1: General requirements**

Document Preview

[IEC TS 63457-1:2025](https://standards.iteh.ai/catalog/standards/iec/3e2613c1-cb6a-4adc-bdd0-c0bc5af663e3/iec-ts-63457-1-2025)

<https://standards.iteh.ai/catalog/standards/iec/3e2613c1-cb6a-4adc-bdd0-c0bc5af663e3/iec-ts-63457-1-2025>



THIS PUBLICATION IS COPYRIGHT PROTECTED

Copyright © 2025 IEC, Geneva, Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either IEC or IEC's member National Committee in the country of the requester. If you have any questions about IEC copyright or have an enquiry about obtaining additional rights to this publication, please contact the address below or your local IEC member National Committee for further information.

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

Tel.: +41 22 919 02 11
info@iec.ch
www.iec.ch

About the IEC

The International Electrotechnical Commission (IEC) is the leading global organization that prepares and publishes International Standards for all electrical, electronic and related technologies.

About IEC publications

The technical content of IEC publications is kept under constant review by the IEC. Please make sure that you have the latest edition, a corrigendum or an amendment might have been published.

IEC publications search -

webstore.iec.ch/advsearchform

The advanced search enables to find IEC publications by a variety of criteria (reference number, text, technical committee, ...). It also gives information on projects, replaced and withdrawn publications.

IEC Just Published - webstore.iec.ch/justpublished

Stay up to date on all new IEC publications. Just Published details all new publications released. Available online and once a month by email.

IEC Customer Service Centre - webstore.iec.ch/csc

If you wish to give us your feedback on this publication or need further assistance, please contact the Customer Service Centre: sales@iec.ch.

IEC Products & Services Portal - products.iec.ch

Discover our powerful search engine and read freely all the publications previews, graphical symbols and the glossary. With a subscription you will always have access to up to date content tailored to your needs.

Electropedia - www.electropedia.org

The world's leading online dictionary on electrotechnology, containing more than 22 500 terminological entries in English and French, with equivalent terms in 25 additional languages. Also known as the International Electrotechnical Vocabulary (IEV) online.

IEC TS 63457-1:2025

<https://standards.iteh.ai/catalog/standards/iec/3e2613c1-cb6a-4adc-bdd0-c0bc5af663e3/iec-ts-63457-1-2025>

Warning! Make sure that you obtained this publication from an authorized distributor.

CONTENTS

FOREWORD.....	3
1 Scope.....	5
2 Normative references	5
3 Terms and definitions	6
4 General requirement.....	7
5 General conditions for the tests	7
6 Inspection and tests	8
6.1 Repair, refurbishment and remanufacturing.....	8
6.1.1 General	8
6.1.2 Visual inspection	8
6.1.3 Markings.....	8
6.1.4 Testing of electrical safety of appliance after repair, refurbishing or remanufacturing.....	9
6.1.5 Functional test.....	13
6.2 Report of inspection and tests.....	14
Annex A (informative) Use of reused components.....	22
Annex B (informative) Upgrade of appliance	23
Annex C (informative) Inspection and test documentation.....	24
Annex D (informative) Guidance on preparing a service manual by the manufacturer or remanufacturer	26
Bibliography.....	28
Figure 1 – Example of test circuit for the measurement of protective earth resistance in appliance that is disconnected from the supply mains	15
Figure 2 – Examples of test circuit for measuring insulation resistance.....	18
Figure 3 – Examples of test circuit for measuring protective earthing conductor current.....	20
Figure 4 – Examples of test circuit for measuring touch-current.....	21
Table 1 – Limits (minimum values) for insulation resistance	11
Table 2 – Limits (maximum values) for touch-current	13

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**HOUSEHOLD AND SIMILAR APPLIANCES –
SUBSEQUENT SAFETY TESTING AFTER REPAIR,
REFURBISHMENT, AND REMANUFACTURING –****Part 1: General requirements****FOREWORD**

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) IEC draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). IEC takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, IEC had not received notice of (a) patent(s), which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at <https://patents.iec.ch>. IEC shall not be held responsible for identifying any or all such patent rights.

IEC TS 63457-1 has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances. It is a Technical Specification.

The text of this Technical Specification is based on the following documents:

Draft	Report on voting
61/7387/DTS	61/7433/RVDTS

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 Technical Specification 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/publications.

This Technical Specification is intended to be used in conjunction with the appropriate Parts 2 of the IEC TS 63457-2 series. The Parts 2 will contain clauses to supplement or modify the corresponding clauses in this document to provide the relevant requirements for each type of appliance.

The Parts 2 of the IEC TS 63457-2 series are under consideration.

Words in **bold** in the text are defined in Clause 3.

A list of all parts in the IEC 63457 series, published under the general title *Household and similar appliances – subsequent safety testing after repair, refurbishment, and remanufacturing*, 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 in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

iTeh Standards
(<https://standards.itih.ai>)
Document Preview

[IEC TS 63457-1:2025](https://standards.itih.ai/catalog/standards/iec/3e2613c1-cb6a-4adc-bdd0-c0bc5af663e3/iec-ts-63457-1-2025)

<https://standards.itih.ai/catalog/standards/iec/3e2613c1-cb6a-4adc-bdd0-c0bc5af663e3/iec-ts-63457-1-2025>