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BUREAU OF INDIAN STANDARDS DRAFT FOR COMMENTS ONLY

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Draft Indian Standard

Household and Similar Electrical Appliances – Safety –Part 2-114: Particular Requirements for Personal-E-Transporters

(ICS 43.120)

Electrical Appliances Sectional	Last date of receipt of comments: 08 November 2025
Committee, ETD 32	

NATIONAL FOREWORD

This draft Indian Standard which is identical with IEC 60335-2-114:2022 "Household and similar electrical appliances – Safety –Part 2-114: Particular requirements for Personal-e-Transporters" issued by the International Electrotechnical Commission (IEC) is proposed to be adopted by the Bureau of Indian Standards on the recommendation of the Electrical Appliances Sectional Committee and approval of the Electrotechnical Division Council.

This standard is to be used in conjunction with IS 302 (Part 1): 2024, Household and Similar Electrical Appliances — Safety Part 1 General Requirements (Seventh Revision).

NOTE — When "Part 1" is mentioned in this standard, it refers to IS 302 (Part 1).

This standard supplements or modifies the corresponding clauses in IS 302 (Part 1), so as to convert that standard: Particular requirements for Personal-e-Transporters.

When a particular subclause of Part 1 is not mentioned in this standard, that subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text in Part 1 is to be adapted accordingly.

NOTES

1 The following numbering system is used:

a) subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;

- b) unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
- c) additional annexes are lettered AA, BB, etc.

2 The following print types are used:

- a) requirements: in roman type;
- b) test specifications: in italic type;
- c) notes: in small roman type.

Should however, any deviation exist between IS 302 (Part 1):2024 and this standard, the provisions of the latter shall apply.

The text of IEC Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain terminologies and conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.
- b) Comma (,) has been used as a decimal marker, while in Indian Standards the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to International Standards for which Indian Standards also exists. The corresponding Indian Standards, which are to be substituted, are listed below along with their degree of equivalence for the editions indicated:

International Standard	Corresponding Indian Standard	Degree of
		Equivalence
IEC 60068-2-5:2018,	IS/IEC 60068-2-5 : 2018 ,	Identical
Environmental testing – Part 2- 5:	Environmental Testing Part 2 Tests	
Tests – Test S: Simulated solar	Section 5 Test S: Simulated solar	
radiation at ground level and	radiation at ground level and guidance	
guidance for solar radiation testing	for solar radiation testing and	
and weathering	weathering	
IEC 61558-2 (all parts), Safety of	IS/IEC 61558-2-6: 2021, Safety of	Identical
transformers, reactors, power	Transformers, Reactors, Power Supply	
supply units and combinations	Units and Combinations Thereof Part 2	
thereof – Part 2-x: Particular	Particular Requirements and Tests for	
requirements and tests	Safety Isolating Transformers and	
	Power Supply Units Incorporating	
	Section 6 Safety Isolating Transformers	
	for General Applications	
	IS/IEC 61558-2-4: 2021 IEC 61558-2-4:	
	2021, Safety of Transformers, Reactors,	

	Power Supply Units and Combinations Thereof Part 2 Particular Requirements and Tests for Safety Isolating Transformers and Power Supply Units Incorporating Section 4 Isolating Transformers for General Applications	
	IS/IEC 61558-2-7: 2007 IEC 61558-2-7, Safety of power transformers, power supplies reactors and similar products: Part 2 - 7 particular requirements and tests for transformers and power supplies for toys	
IEC 62133-2, Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications – Part 2: Lithium systems	IS 16046 (Part 2): 2018 / IEC 62133-2: 2017, Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells and for Batteries Made from Them for Use in Portable Applications Part 2 Lithium Systems (Second Revision)	Identical

The technical committee has reviewed the provisions of the following international standards referred in this adopted standard and decided that they are acceptable for use in conjunction with this standard.

International Standard	Title
IEC 60068-2-64	Environmental testing – Part 2-64: Tests – Test Fh: Vibration,
	broadband
IEC 61558-2-1:2021	Safety of transformers, reactors, power supply units and
	combinations thereof - Part 2-1: Particular requirements and tests
	for separating transformers and power supply units incorporating
	separating transformers for general applications
IEC 61558-2-2:2022	Safety of transformers, reactors, power supply units and
	combinations thereof - Part 2-2: Particular requirements and tests
	for control transformers and power supply units incorporating
	control transformers
IEC 61558-2-3:2023	Safety of transformers, reactors, power supply units and
	combinations thereof - Part 2-3: Particular requirements and tests
	for ignition transformers for gas and oil burners
IEC 61558-2-5:2024	Safety of transformers, reactors, power supply units and
	combinations thereof - Part 2-5: Particular requirements and tests
	for transformers for shavers, power supply units for shavers and
	shaver supply units
IEC 61558-2-8:2024	Safety of transformers, reactors, power supply units and

	combinations thereof - Part 2-8: Particular requirements and tests
	for transformers and power supply units for bells and chimes
IEC 61558-2-9:2024	Safety of transformers, reactors, power supply units and
	combinations thereof - Part 2-9: Particular requirements and tests
	for transformers and power supply units for class III handlamps
IEC 61558-2-10:2024	Safety of transformers, reactors, power supply units and
	combinations thereof - Part 2-10: Particular requirements and tests
	for separating transformers with high insulation level and
	separating transformers with output voltages exceeding 1 000 V
IEC 61558-2-12:2024	Safety of transformers, reactors, power supply units and
12.2021	combinations thereof - Part 2-12: Particular requirements and tests
	for constant voltage transformers and power supply units for
	constant voltage
IEC 61558-2-13:2022	č
IEC 01338-2-13:2022	Safety of transformers, reactors, power supply units and
	combinations thereof - Part 2-13: Particular requirements and tests
	for auto-transformers and power supply units incorporating auto-
	transformers for general applications
IEC 61558-2-14:2022	Safety of transformers, reactors, power supply units and
	combinations thereof - Part 2-14: Particular requirements and tests
	for variable transformers and power supply units incorporating
	variable transformers for general applications
IEC 61558-2-15:2022	Safety of transformers, reactors, power supply units and
	combinations thereof - Part 2-15: Particular requirements and tests
	for isolating transformers for medical IT systems for the supply of
	medical locations
IEC 61558-2-16:2021	Safety of transformers, reactors, power supply units and
	combinations thereof - Part 2-16: Particular requirements and tests
	for switch mode power supply units and transformers for switch
	mode power supply units for general applications
IEC 61558-2-20:2022	Safety of transformers, reactors, power supply units and
	combinations thereof - Part 2-20: Particular requirements and tests
	for small reactors
IEC 61558-2-23:2024	Safety of transformers, reactors, power supply units and
120 01330 2 23.202 1	combinations thereof - Part 2-23: Particular requirements and tests
	for transformers and power supply units for construction sites
IEC 61558-2-26:2013	Safety of transformers, reactors, power supply units and
112 01330 2 20.2013	combinations thereof - Part 2-26: Particular requirements and tests
	for transformers and power supply units all for saving energy and
	other purposes
	other purposes

This standard is one among the IS 302 series of Indian Standards on safety of household and similar electrical appliances. Part 1 of the series specifies the general requirements, and sections of Part 2 of the series specify the particular requirements for the safety of different types of household and similar electrical appliances. Information on IS 302 (Part 1) and all sections of the IS 302 (Part 2) series, published under the general title 'Household and similar electrical appliances — Safety', can be accessed from the BIS website www.bis.gov.in.

Only the English language text has been retained while adopting it in this Indian Standard, and as such, the page numbers given here are not the same as in the IEC Publication.

India specific changes have been made to the adopted IEC 60335-2-114 as outlined in National Annex A.

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed or calculated expressing the result of a test or analysis shall be rounded off in accordance with IS 2:2022 'Rules for rounding of numerical values (*Second Revision*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

NOTE — The technical content of this document has not been enclosed as it is identical with the corresponding IEC standard. For details, please refer the corresponding IEC 60335-2-114:2022 or kindly contact:

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NATIONAL ANNEX A

(National Foreword)

The National Annex A of Part 1 is applicable.