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BUREAU OF INDIAN STANDARDS

AGENDA

Name of the Committee	No. of Meeting	Day	Date	Time	Venue
Electrical Appliances Sectional Committee, ETD 32	40th	Tuesday	27 June 2023	10:00 A.M	Lal C Verma Hall, Manak Bhawan, 9 Bahadur Shah Zafar Marg, New Delhi 110002

Chairman: Shri A K Rajput

Member Secretary: Shri Ritwik Anand

Item 0 GENERAL

0.1 WELCOME AND OPENING REMARKS BY THE CHAIRMAN

Item 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING

1.1 The minutes of the last meeting (39th meeting) of Electrical Appliances Sectional Committee, ETD 32 held Online on 07-07-2022, were circulated vide BISDG letter No. ETD 32/A-2.39 dated 12-07-2022. No comments have been received.

The Committee may formally confirm the minutes.

Item 2 COMPOSITION OF ELECTRICAL APPLIANCES, SECTIONAL COMMITTEE, ETD 32

2.1 The present composition and attendance of previous 3 meetings of ETD 32 are given in **Annex 1**.

2.2 The committee members are requested to provide suggestions for ensuring active participation of members.

Standardization is a collaborative effort and its success largely depends on the participation and contribution of the members of the concerned technical committees. Further, for standards to be relevant it is also important that viewpoints of all interested stakeholders are brought on board and duly considered while building consensus on the standard being developed. Hence, participation in the technical committee meetings is extremely important in order to ensure that the views of all stakeholder interests are given due consideration by the committee in the formulation of Indian Standards.

The committee may note.

2.3 Request for co-option is received from M/s Samsung Electronics and M/s Orient Electric Ltd.

The committee may consider.

Item 3 ACTIONS ARISING OUT OF PREVIOUS MEETING

Sl. No.	Item No. of last minutes	Item	Decision	Action Taken/Proposed
1.	3.1.1	ETD 32 (17877) (IS 302-2-2) Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 2 Vacuum Cleaners And Water-Suction Cleaning Appliances	It was decided to finalize the document for printing as no comments were received.	During the last meeting of ETD 32 , committee finalized the document for printing as no comments were received. Also, Latest IEC 60335-2-2: 2019 was Wide circulated on 20-04-2023. (No comments received)
2.	3.1.2	ETD 32 (17858) (IS 302-2-4) Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 4 Spin Extractors	It was decided to finalize the document for printing as no comments were received.	During the last meeting of ETD 32 , committee finalized the document for printing as no comments were received. Also, Latest IEC 60335-2-4:2021 Wide circulated on 20-04-2023.
3.	3.1.4	ETD 32 (17878) (IS 302-2-6) Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 6 Cooking Ranges	Decision taken with reference to comments received. It was decided to finalize the document for printing as no technical changes were made in the document.	During the last meeting of ETD 32 , committee finalized the document for printing. Also, Latest IEC 60335-2-6: 2018 (Ed. 6.1) Wide circulated on 03-04-2023 with Doc No

		Hobs Ovens and Similar Appliances		ETD 32 (22186). Comments received are placed at Annex-5
4.	3.1.3	ETD 32 (17880) (IS 302-2-7) Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 7 Domestic Electric Clothes Washing Machines	It was decided to finalize the document for printing as no comments were received.	During the last meeting of ETD 32 , committee finalized the document for printing. Also, Latest IEC 60335-2-7:2019 Wide circulated on 20-04-2023.
5.	3.1.6	ETD 32 (17882) (IS 302-2-9) Safety of household and similar electrical appliances part 2 particular requirements section 9 particular requirements for grills toasters and similar portable cooking appliances	Committee discussed the comments received on the document and the proposals made in the comments were not agreed to by the committee. It was decided to finalize the document for printing.	During the last meeting of ETD 32 , committee finalized the document for printing. Also, Latest IEC 60335-2-9:2019 Wide circulated on 20-04-2023 with Doc no ETD 32 (22312)WC Comments received are placed at Annex-6
6.	3.1.5	ETD 32 (17884) (IS 302-2-15) Safety of Household And Similar Electrical Appliances Part 2 Particular Requirements Section 15 Appliances for Heating Liquids	Committee discussed the comment received on the document and the proposal made in the comment was not agreed to by the committee. It was decided to finalize the document for printing.	During the last meeting of ETD 32 , committee finalized the document for printing. Latest IEC 60335-2-15:2012+ AMD1:2016 +AMD2:2018 Wide circulated on 20-04-2023.

7.	3.1.7	ETD 32 (16833) (IS 14155) Domestic Electric Clothes Washing Machines for Household Use Specification	It was decided to wide circulate the document incorporating the decisions of committee for a period of 15 days and to finalize the document for printing, with approval of chairman, in the absence of any technical comments during wide circulation.	Under advanced stage of printing. <i>The committee may note.</i>
8.	3.1.8	ETD 32 (16992) Household electric cooking appliances performance requirements of electric hobs	It was decided to wide-circulate the document incorporating the decisions of committee for a period of 15 days and to finalize the document for printing, with approval of chairman, in the absence of any technical comments during wide-circulation	<i>Published as IS 19014: 2022 Household Electric Cooking Appliances - Performance Requirements of Electric Hobs.</i> <i>The committee may note.</i>
9.	3.2.1	ETD 32 (17945) (IS 374) Specification for electric ceiling type fans and regulators (Third Revision) Amendment - 1	Committee considered the draft amendment put up by the panel and it was decided to finalize the document for printing.	Amendment No 1 (2022) to IS 374: 2019 is published. <i>The committee may note.</i>
10.	3.2.2	ETD 32 (17946) (IS 302-2-80) Safety of Household and similar electrical appliances - Safety: Part 2 - 80 particular requirements for fans (First Revision) Amendment - 1	It was decided to finalize the document for printing as no comments were received.	Amendment No 1 (2023) to IS 302-2-80: 2017 is published. <i>The committee may note.</i>
11.	3.2.3	ETD 32 (19649) (IS 302-2-30) Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 30 room heaters (First Revision) Amendment	It was decided to finalize the document for printing as no comments were received.	Under Printing

		- 3		
12.	6.1	(ETD/32/21941) 'Household and similar electrical appliances – Accessibility of control elements, doors, lids, drawers and handles (Identical to: IEC 63008:2020)	It was decided to adopt the above IEC standard and to wide- circulate the same for a period of 30 days	Wide circulated on 13-02-2023 for a period of 30 days. <i>No Comments Received.</i>
13.	5.2	Revision of IS 2082: 2018: Stationery storage type electric water heaters	The committee discussed regarding the agenda points w.r.t IS 2082: 2018 and it was decided to take up the standard for revision with inclusion of new testing methodology proposed by BEE along with active power requirements. The committee requested Shri. Socratees Chandrasekharan, Bajaj Electrical Ltd to prepare the draft revision document, in consultation with the representatives of Racold, Philips, Havells & Venus Home appliances and submit the same to BIS by 31 August 2022.	Draft Document awaited.
14.	8.1	Standards on Dishwasher	The committee requested Shri. Balasubramanian Anand, BSH Household Appliances Manufacturing Private Limited, Chennai to prepare the draft for safety and performance of Dishwashers and to submit the same to BIS.	Draft Document awaited.

15.	6.1	Revision of IS 4250 - Specification For Electric Food – Mixers (Liquidizers And Grinders) & Centrifugal Juicers	Draft Indian standard is under consideration of the panel.	
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Item 4 DRAFT STANDARDS/AMENDMENTS FOR FINALIZATION

Sl. No.	Doc. No.	Title	Remarks
1.	(ETD/32/22184) Revision of IS 302: Part 1: 2008 (Identical to: IEC 60335: 2020)	Household and similar electrical appliances Safety Part 1: General requirements	Wide circulated on 03-04-2023. Comments received are placed at Annex-7
2.	(ETD/32/22294) Revision of IS 302: Part 2: Sec 2: 1997 (Identical to: IEC 60335-2-2: 2019)	Household and similar electrical appliances Safety Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances	Wide circulated on 20-04-2023. (No comments received)
3.	(ETD/32/22185) Revision of IS 302: Part 2: Sec 3: 2007 (Identical to: IEC 60335-2-3: 2022)	Household and similar electrical appliances Safety Part 2-3: Particular requirements for electric irons	Wide circulated on 03-04-2023. (Latest corresponding IEC is aligned with IEC 60335-1, Ed-6.0) Comments received are placed at Annex-8

4.	(ETD/32/22296) Revision of IS 302: Part 2: Sec 4: 1993 (Identical to: IEC 60335-2-4:2021)	Household and similar electrical appliances Safety Part 2-4: Particular requirements for spin extractors	Wide circulated on 20-04-2023. (No comments received)
5.	(ETD/32/22186) Revision of IS 302: Part 2: Sec 6: 2009 (Identical to: IEC 60335-2-6: 2018 (Ed. 6.1))	Household and similar electrical appliances Safety Part 2-6: Particular requirements for stationary cooking ranges hobs ovens and similar appliances	Wide circulated on 03-04-2023. Comments received are placed at Annex-5
6.	(ETD/32/22297) Revision of IS 302: Part 2: Sec 7: 2010 (Identical to: IEC 60335-2-7:2019)	Household and similar electrical appliances Safety Part 2-7: Particular requirements for washing machines	Wide circulated on 20-04-2023. (No comments received)
7.	(ETD/32/22403) Revision of IS 302: Part 2: Sec 8: 1994 (Identical to: IEC 60335-2-8:2022)	Household and similar electrical appliances Safety Part 2-8: Particular requirements for shavers hair clippers and similar appliances	Wide circulated on 03-05-2023. (Latest corresponding IEC is aligned with IEC 60335-1, Ed-6.0) (No comments received)
8.	(ETD/32/22298) Revision of IS 302: Part 2: Sec 9: 2009 (Identical to: IEC 60335-2-9:2019)	Household and similar electrical appliances Safety Part 2-9: Particular requirements for grills toasters and similar portable cooking appliances	Wide circulated on 20-04-2023. Comments received are placed at Annex-6
9.	(ETD/32/22299) Revision of IS 302: Part 2: Sec 11: 1994 (Identical to: IEC 60335-2-11:2019)	Household and similar electrical appliances Safety Part 2-11: Particular requirements for tumble dryers	Wide circulated on 20-04-2023. (No comments received)

10.	(ETD/32/22300) Revision of IS 302: Part 2: Sec 12: 1993 (Identical to: IEC 60335-2- 12:2002+AMD1:2 008 +AMD2:2017)	Household and similar electrical appliances Safety Part 2-12: Particular requirements for warming plates and similar appliances	Wide circulated on 20-04-2023. (No comments received)
11.	(ETD/32/22302) Revision of IS 302: Part 2: Sec 13: 1994 (Identical to: IEC 60335-2-13:2021)	Household and similar electrical appliances Safety Part 2-13: Particular requirements for deep fat fryers frying pans and similar appliances	Wide circulated on 20-04-2023. (Latest corresponding IEC is aligned with IEC 60335-1, Ed-6.0) (No comments received)
12.	(ETD/32/22187) Revision of IS 302: Part 2: Sec 14: 2009 (Identical to: IEC 60335-2-14: 2019 (Ed. 6.1))	Household and similar electrical appliances Safety Part 2-14: Particular requirements for kitchen machines	Wide circulated on 03-04-2023. Comments received are placed at Annex-9
13.	(ETD/32/22307) Revision of IS 302: Part 2: Sec 15: 2009 (Identical to: IEC 60335-2- 15:2012+AMD1:2 016 +AMD2:2018)	Household and similar electrical appliances Safety Part 2-15: Particular requirements for appliances for heating liquids	Wide circulated on 20-04-2023. (No comments received)
14.	(ETD/32/22310) Revision of IS 302: Part 2: Sec 21: 2018 (Identical to: IEC 60335-2-21:2022)	Household and similar electrical appliances Safety Part 2-21: Particular requirements for storage water heaters	Wide circulated on 20-04-2023. (Latest corresponding IEC is aligned with IEC 60335-1, Ed-6.0) Comments received are placed at Annex-10
15.	(ETD/32/22312) Revision of	Household and similar electrical appliances	Wide circulated on 20-04-2023.

	IS 302: Part 2: Sec 23: 2009 (Identical to: IEC 60335-2-23:2016+AMD1:2019)	Safety Part 2-23: Particular requirements for appliances for skin or hair care	Comments received are placed at Annex-11
16.	(ETD/32/22315) Revision of IS 302: Part 2: Sec 24: 1994 (Identical to: 60335-2-24:2020)	Household and similar electrical appliances - Safety - Part 2-24: Particular requirements for refrigerating appliances ice-cream appliances and ice makers	Wide circulated on 20-04-2023. (No comments received)
17.	(ETD/32/22193) Revision of IS 302: Part 2: Sec 25: 2014 (Identical to: 60335-2-25: 2020 (Ed. 7.0))	Household and similar electrical appliances Safety Part 2-25: Particular requirements for microwave ovens including combination microwave ovens	Wide circulated on 03-04-2023. Comments received are placed at Annex-12
18.	(ETD/32/22207) Revision of IS 302: Part 2: Sec 26: 2014 (Identical to: 60335-2-26:2008 (Ed. 4.1))	Household and similar electrical appliances- Safety Part 2-26: Particular requirements for clocks	Wide circulated on 03-04-2023. (No comments received)
19.	(ETD/32/22208) Revision of IS 302: Part 2: Sec 30: 2007 (Identical to: 60335-2-30:2021 (Ed. 5.2))	Household and similar electrical appliances Safety Part 2-30: Particular requirements for room heaters	Wide circulated on 03-04-2023. Comments received are placed at Annex-13
20.	(ETD/32/22314) Revision of IS 302: Part 2: SEC 31: 2009 (Identical to: IEC 60335-2-31:2012+AMD1:2	Household and similar electrical appliances Safety Part 2-31: Particular requirements for range hoods and other cooking fume extractors	Wide circulated on 20-04-2023. (No comments received)

	016 +AMD2:2018)		
21.	(ETD/32/22295) Revision of IS 302: Part 2: Sec 32: 1994 (Identical to: 60335-2-32:2019)	Household and similar electrical appliances - Safety - Part 2-32: Particular requirements for massage appliances	Wide circulated on 20-04-2023. (No comments received)
22.	(ETD/32/22301) Revision of IS 302: Part 2: Sec 35: 2017 (Identical to: 60335-2- 35:2012+AMD1:2 016+AMD2:2020)	Household and similar electrical appliances Safety Part 2-35: Particular requirements for instantaneous water heaters	Wide circulated on 20-04-2023. Comments received are placed at Annex-14
23.	(ETD/32/22305) Revision of IS 302: Part 2: Sec 45: 1994 (Identical to: 60335-2- 45:2002+AMD1:2 008+AMD2:2011)	Household and similar electrical appliances - Safety - Part 2-45: Particular requirements for portable heating tools and similar appliances	Wide circulated on 20-04-2023. (No comments received)
24.	(ETD/32/22303) Superseding IS 302-2-46: 1993 (Identical to: 60335-2-42:2021)	Household and similar electrical appliances Safety Part 2-42: Particular requirements for commercial electric forced convection ovens steam cookers and steam- convection ovens	Wide circulated on 20-04-2023. (Latest corresponding IEC is aligned with IEC 60335-1, Ed-6.0) (No comments received)
25.	(ETD/32/22308) Revision of IS 302: Part 2: Sec 59: 1999 (Identical to: 60335-2-59:2021)	Household and similar electrical appliances - Safety - Part 2-59: Particular requirements for insect killers	Wide circulated on 20-04-2023. (Latest corresponding IEC is aligned with IEC 60335-1, Ed-6.0) (No comments received)
26.	(ETD/32/22249) Superseding IS 302	Household and Similar Electrical Appliances	Wide circulated on 03-04-2023.

	(Part 2/Sec 201) : 2008 (Identical to: IEC 60335-2-74: 2021)	Safety Part 2-74: Particular requirements for portable immersion heaters	(Latest corresponding IEC is aligned with IEC 60335-1, Ed-6.0) (No comments received)
27.	(ETD/32/22309) Revision of IS 302: Part 2: Sec 75: 2018 (Identical to: 60335-2- 75:2012+AMD1:2 015+AMD2:2018)	Household and similar electrical appliances - Safety - Part 2-75: Particular requirements for commercial dispensing appliances and vending machines	Wide circulated on 20-04-2023. (No comments received)
28.	(ETD/32/22311) Revision of IS 302: Part 2: Sec 76: 1999 (Identical to: 60335-2-76:2018)	Household and similar electrical appliances - Safety - Part 2-76: Particular requirements for electric fence energizers	Wide circulated on 20-04-2023. (No comments received)
29.	(ETD/32/22313) Revision of IS 302: Part 2: Sec 80: 2017 (Identical to: 60335-2-80:2015)	Household and similar electrical appliances - Safety - Part 2-80: Particular requirements for fans	Wide circulated on 20-04-2023. (No comments received)

Item 5 PRESENT POSITION OF WORK OF ETD 32

5.1 The present position of work under ETD 32 is given in **Annex 2**.

The committee may note.

Item 6 INTERNATIONAL ACTIVITIES

6.1 India is Participating member in TC 61 and IEC TC 59. Details of IEC TC 61 standards yet to be adopted/adapted by ETD 32 is given at **Annex-4**.

Item 7 Rolling Action Plan for the year 2023-24

As per the directions received, it has been decided that a Rolling Action Plan shall be prepared by

each technical committee. The plan should include details of new standards to be considered for formulation, revisions to existing standards, a meeting calendar, national and international events to be participated in, research projects to be undertaken by committee members, scientific journals and periodicals to be subscribed to, and details of the review of new work item proposals received from IEC.

This plan will ensure that each technical committee is well-prepared and organized in their efforts to develop and maintain high-quality standards.

A Presentation on Process Reforms in Standardization Activity of BIS is enclosed as **Annexure – 15**.

Committee members are requested to actively participate in the development and execution of this plan.

Item 12 DATE AND PLACE FOR THE NEXT MEETING

Item 13 ANY OTHER BUSINESS

Annex 1

S.No.	Organization	Member Name	Role	Member Email	Member Phone
1.	Central Electricity Authority, New Delhi	Shri Ashok Kumar Rajput	Chairperson	akrajput@nic.in	9868202176
2.	BSH Household Appliances Manufacturing Private Limited, Chennai	Shri Balasubramanian Anand	Alternate Member	anand.balasubramanian@bshg.com	8939323335
		Loganathan Vijay Kumar	Principal Member	vijay.loganathan@bshg.com	9942843303
3.	Bajaj Electricals Limited, Mumbai	Shri Chandra Veer Singh	Principal Member	chandras@bajajelectricals.com	9417655130
		Socratees C	Alternate Member	socratees.chandrasekaran@bajajelectricals.com	9500380839
		Abhinandan De	Alternate Member	abhinandan.de@bajajelectricals.com	8274865120
4.	Bureau of Energy Efficiency, New Delhi	Ms Pravatanalini Samal	Principal Member	psamal@beeindia.gov.in	9958392221
		Mukhe K Sai Satvik	Alternate Member	mukhe.satvik99@beeindia.gov.in	
		Shri Kamran Shaikh	Alternate Member	kamran.shaikh@beeindia.gov.in	8349991974
5.	Central Electricity Authority, New Delhi	Shri O.P. Suman	Principal Member	suman.om@gov.in	9971749722
		Shri Omkishore	Alternate Member	omkishore@gov.in	9990174136
6.	Central Power Research Institute, Bengaluru	Shri D. Venkatesh	Principal Member	dvenkat@cpri.in	9964957257
7.	Central Public Works Department, New Delhi	Shri A. K. Goel	Alternate Member	delceedr.cpwd@nic.in	
		Shri Mukesh Vij	Principal Member	seceel@yahoo.com	
8.	Consumer Education and Research Centre, Ahmedabad	Ms. Shweta Mahajan	Principal Member	torch.electrical@gmail.com	9638238495
9.	Consumer Electronics and	Shri Srinivasan Moturi	Principal Member	vasu@voltas.com	9899872440

	Appliances Manufacturers Association (CEAMA), Noida	Shri Suhas Kulkarni	Alternate Member	rtone@godrej.com	
		Shri Anil Mehta	Alternate Member	anil.mehta@in.panasonic.com	9810158745
10.	Consumer Voice, New Delhi	Mr. B.K. Mukhopadhyay	Alternate Member	mukhopadhyay.bhaskar@gmail.com	9811891087
11.	Crompton Greaves, Mumbai	Shri Mayur Nadkarni	Alternate Member	mayur.nadkarni@crompton.co.in	9769012695
		Shri Parvin Garje	Principal Member	pravin.garje@crompton.co.in	8698942481
		Shri Senthil Arul	Alternate Member	Senthil.arul@crompton.co.in	9880930088
12.	Defence Research and Development Organization, Research Centre Imarat, Hyderabad	Prafulla Chandra	Principal Member	dscsystem@gmail.com	9794863252
		Suresh Chandra	Alternate Member	dps9@rdso.railnet.gov.in	9794863138
		A.K. Shukla	Alternate Member	edse.rdso@gmail.com	
13.	Development Commissioner Micro-Small and Medium Enterprises	Shri S. Dharmaselvan	Alternate Member	s.dharmaselvan@dcmsme.gov.in	8248310489
14.	Dyson Technology India Pvt Ltd, Gurugram, Haryana.	Shekh Tazimul Haque Faridi	Principal Member	shekh.faridi@dyson.com	7303899805
15.	Electrical Appliances Mfrs. Association (EAMA)	Shri J.K. Oberoi	Principal Member	jugal.k.oberoi@gmail.com	
		Shri Ramesh Khanna	Alternate Member	ramesh.khanna99@yahoo.com	
16.	Electrical Research and Development Association, Vadodara	Shri R.P. Singh	Principal Member	rakesh.patel@erda.org	9512036788
		Dr. Vinod Gupta	Alternate Member	vinod.gupta@erda.org	9978940924
17.	Electronics Regional and Test Laboratory (North), New Delhi	Ms Manjula Bhati	Principal Member	mbhati@stqc.gov.in	9818510083
18.	Government of Gujarat (IW), Energy and Petrochemical	Shri Mishra N.J.	Principal Member		

	Department, Gandhinagar				
19.	Havells India Limited, Noida	Pramod Deshpande	Alternate Member	Pramod.deshpan de@havells.com	
		Shri Diwan Singh Kholia	Alternate Member	diwansingh.kholi a@havells.com	
		Rajeev Kumar Gupta	Principal Member	RAJEEVKUMA R.GUPTA@HA VELLS.COM	
20.	Indian Electrical and Electronics Manufacturers Association, New Delhi	Shri Rishabh Joshi	Principal Member	rishabh.joshi@ie ema.org	9529886879
		Shri Navdeep Singh	Alternate Member	navdeep.singh@i eema.org	8851879299
21.	Ministry of Commerce and Industry, Department for Promotion of Industry and Internal Trade, New Delhi	S.K. Jain	Principal Member	skcmjain@rediff mail.com	
		Shri Mohd.Zakaria Khan Yusuf Zai	Alternate Member		
22.	National Test House, Kolkata	Uma Bhakta	Principal Member	nthwr@mtnl.net. in	
		Shri T. Roy Barman	Alternate Member		
23.	National Water Mission Department of Water Resources, RD and GR Ministry of Jal Shakti, New Delhi	Shri Suneel Kumar Arora	Principal Member	skarora_1@yaho o.co.in	7507112529
		Shri Padmanabh Maniyar	Alternate Member	pmaniyar@hotm ail.com	9987099063
24.	Petroleum Conservation Research Association, New Delhi	Surendra Pratap	Principal Member	dirrnd@pcra.org	9819737928
		Shri M P Bangwal	Principal Member	adrnd@pcra.org	9999633789
		Shri P K Purkayashtha	Alternate Member	purakayasthapk @pcra.org	8826949781
25.	Philips India Limited, Gurugram	Vivek Sharma	Principal Member	vivek.sharma@v ersuni.com	9958599099
		Vishal Vikram Singh	Alternate Member	VishalVikram.Si ngh@versuni.co m	8860413070
26.	Racold Thermo Limited, Pune	Shri Abhijit Banshelkikar	Principal Member	Abhijit.Banshelk ikar@ariston.co	8554010022

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		Ravindra Patel	Alternate Member	Ravindra.Patel@ariston.com	9923661903
27.	UL India Private Limited, Bengaluru	Shri Satish Kumar	Alternate Member	satish.kumar@ul.com	8130427334
		V. Manjunath	Principal Member	manjunath.v@ul.org	9902088120
28.	Venus Safety and Health Private Limited, Navi Mumbai	I. Ram Kumar	Alternate Member	ramkumar@venushomeappliances.com	9884061131
		R.Murali Ganesan	Alternate Member	murali@venushomeappliances.com	9789497603
29.	Whirlpool Corporation, Gurugram	Balajee S Prasad	Alternate Member	balajee_prasad@whirlpool.com	
		Poonam Dake	Principal Member	poonam_dake@whirlpool.com	9921386226
30.	IN PERSONAL CAPACITY	Shri P K Mukherjee	Principal Member	pkmukherjee09@yahoo.com	9910013204

Annex-2

ETD 32 : Electrical Appliances
Scope : To prepare standards for electrical appliances for household and similar purposes, including associated controls
<p>Liaison:</p> <p>IEC TC 59 - Performance of household and similar electrical appliances - Principle (P)</p> <p>IEC / SC 59C - Heating appliances - Principle (P)</p> <p>IEC TC 61 - Safety of household and similar electrical appliances - Principle (P)</p> <p>IEC / SC 59A - Electric dishwashers - Observer (O)</p> <p>IEC / SC 59D - Home laundry appliances - Observer (O)</p> <p>IEC / SC 59F - Surface cleaning appliances - Observer (O)</p> <p>IEC / SC 59L - Small household appliances - Observer (O)</p> <p>IEC / SC 61B - Safety of microwave appliances for household and commercial use - Observer (O)</p> <p>IEC / SC 61H - Safety of electrically-operated farm appliances - Observer (O)</p>

IEC / SC 61J - Electrical motor-operated cleaning appliances for commercial use - Observer (O)
IEC TC 72 - Automatic electrical controls - Observer (O)

Published Standards					
Sl. No.	Indian Standard	Title	Latest IEC Standard	No of BIS Licensees	Remarks regarding alignment with IEC 60335-1 (Ed-6.0)
1.	IS 302 (Part 1) : 2008	Safety of household and similar electrical appliances: Part 1 general requirements (Sixth Revision)	<u>IEC 60335-1:2020</u> Edition 6.0 (2020-09-02) Household and similar electrical appliances - Safety - Part 1: General requirements	0	-
2.	IS 302 (Part 2/Sec 2) : 1997	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 2 vacuum cleaners and water suction cleaning appliances	<u>IEC 60335-2-2:2019</u> Edition 7.0 (2019-05-14) Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances	0	N
3.	IS 302 (Part 2/Sec 3) : 2007	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 3 electric iron (First Revision)	<u>IEC 60335-2-3:2022</u> Edition 7.0 (2022-10-12) Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons	0	Y
4.	IS 302 (Part 2/Sec 4) : 1993	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 4 spin extractors	<u>IEC 60335-2-4:2021 RLV</u> Edition 7.0 (2021-03-10) Household and similar electrical appliances - Safety - Part 2-4: Particular requirements for spin extractors	0	N
5.	IS 302 (Part 2/Sec 6) : 2009	Safety of household and similar electrical appliances: Part 2	<u>IEC 60335-2-6:2014 + Amd1 2018</u> Edition 6.0 (2014-02-25)	0	N

		particular requirements: Sec 6 cooking ranges, hobs, ovens and similar appliances (First Revision)	Household and similar electrical appliances - Safety - Part 2-6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances		
6.	IS 302 (Part 2/Sec 7) : 2010	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 7 domestic electric clothes washing machines (First Revision)	IEC 60335-2-7:2019 Edition 8.0 (2019-05-14) Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines	0	N
7.	IS 302 (Part 2/Sec 8) : 1994	Safety of household and similar electrical appliances : part 2 particular requirements, section 8 electrical shavers hair, clippers and similar appliances	IEC 60335-2-8:2022 Edition 7.0 (2022-10-18) Household and similar electrical appliances - Safety - Part 2-8: Particular requirements for shavers, hair clippers and similar appliances	0	Y
8.	IS 302 (Part 2/Sec 9) : 2009	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 9 toasters, grills, roasters and similar appliances (First Revision)	IEC 60335-2-9:2019 Edition 7.0 (2019-05-17) Household and similar electrical appliances - Safety - Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances	0	N
9.	IS 302 (Part 2/Sec 11) : 1994	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 11 tumbler dryers	IEC 60335-2-11:2019 RLV Edition 8.0 (2019-04-15) Household and similar electrical appliances - Safety - Part 2-11: Particular requirements for tumble dryers	0	N
10	IS 302 (Part 2/Sec 12) : 1993	Safety of household and similar electrical appliances - Specification: Part 2	IEC 60335-2- 12:2002+AMD1:2008+A MD2:2017 CSV Edition 5.2 (2017-10-17)	0	N

		particular requirements: Sec 12 warming plates and similar appliances	Household and similar electrical appliances - Safety - Part 2-12: Particular requirements for warming plates and similar appliances		
11	IS 302 (Part 2/Sec 13) : 1994	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 13 frying pans, deep fat fryers and similar appliances	IEC 60335-2-13:2021 CMV Edition 7.0 (2021-12-14) Household and similar electrical appliances - Safety - Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances	0	Y
12	IS 302 (Part 2/Sec 14) : 2009	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 14 electric kitchen machines (First Revision)	IEC 60335-2- 14:2016+AMD1:2019 CSV Edition 6.1 (2019-03-27) Household and similar electrical appliances - Safety - Part 2-14: Particular requirements for kitchen machines	53	N
13	IS 302 (Part 2/Sec 15) : 2009	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 15 appliances for heating liquids (First Revision)	IEC 60335-2- 15:2012+AMD1:2016+A MD2:2018 CSV Edition 6.2 (2018-11-02) Household and similar electrical appliances - Safety - Part 2-15: Particular requirements for appliances for heating liquids	0	N
14	IS 302 (Part 2/Sec 21) : 2018	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 21 stationary storage type electric water heaters (Second Revision)	IEC 60335-2-21:2022 CMV Edition 7.0 (2022-10-18) Household and similar electrical appliances - Safety - Part 2-21: Particular requirements for storage water heaters	0	Y
15	IS 302 (Part	Safety of household and	IEC 60335-2-	0	N

	2/Sec 23) : 2009	similar electrical appliances: Part 2 particular requirements: Sec 23 appliances for skin or hair care (First Revision)	23:2016+AMD1:2019 CSV Edition 6.1 (2019-03-27) Household and similar electrical appliances - Safety - Part 2-23: Particular requirements for appliances for skin or hair care		
16	IS 302 (Part 2/Sec 24) : 1994	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 24 refrigerators, food - Freezers and ice - Makers	IEC 60335-2-24:2020 Household and similar electrical appliances - Safety - Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice makers	0	N
17	IS 302 (Part 2/Sec 25) : 2014	Safety of household and similar electrical appliances: Part 2 Particular requirements: Section 25 Microwave ovens	IEC 60335-2-25:2020 RLV Household and similar electrical appliances - Safety - Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens	0	N
18	IS 302 (Part 2/Sec 26) : 2014	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 26 clocks (First Revision)	IEC 60335-2-26:2002+AMD1:2008 CSV Edition 4.1 (2008-07-15) Household and similar electrical appliances - Safety - Part 2-26: Particular requirements for clocks	0	N
19	IS 302 (Part 2/Sec 30) : 2007	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 30 room heaters (First Revision)	IEC 60335-2-30:2009+AMD1:2016+AMD2:2021 CSV Edition 5.2 (2021-03-08) Household and similar electrical appliances - Safety - Part 2-30: Particular requirements for room heaters	105	N
20	IS 302 (Part 2/Sec 31) :	Safety of household and similar electrical	IEC 60335-2-31:2012+AMD1:2016+AM	0	N

	2009	appliances: Part 2 particular requirements: Sec 31 range hoods	D2:2018 CSV Edition 5.2 (2018-08-17) Household and similar electrical appliances - Safety - Part 2-31: Particular requirements for range hoods and other cooking fume extractors		
21	IS 302 (Part 2/Sec 32) : 1994	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 32 massage appliances	IEC 60335-2-32:2019 Edition 5.0 (2019-09-20) Household and similar electrical appliances - Safety - Part 2-32: Particular requirements for massage appliances	0	N
22	IS 302 (Part 2/Sec 35) : 2017	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 35 electric instantaneous water heaters (Second Revision)	IEC 60335-2-35:2012+AMD1:2016+AMD2:2020 CSV Edition 5.2 (2020-06-04) Household and similar electrical appliances - Safety - Part 2-35: Particular requirements for instantaneous water heaters	0	N
23	IS 302 (Part 2/Sec 45) : 1994	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 45 electric heating tools	IEC 60335-2-45:2002+AMD1:2008+AMD2:2011 CSV Edition 3.2 (2012-01-30) Household and similar electrical appliances - Safety - Part 2-45: Particular requirements for portable heating tools and similar appliances	0	N
24	IS 302 (Part 2/Sec 46) : 1993	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 46 electric steam cookers	IEC 60335-2-42:2021 RLV TC/SC TC 61 (English) Household and similar electrical appliances - Safety - Part 2-42: Particular requirements	0	Y

			for commercial electric forced convection ovens + steam cookers and steam-convection ovens		
25	IS 302 (Part 2/Sec 59) : 1999	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 59 insect killers	<u>IEC 60335-2-59:2021</u> Edition 4.0 (2021-12-14) Household and similar electrical appliances - Safety - Part 2-59: Particular requirements for insect killers	0	Y
26	IS 302 (Part 2/Sec 75) : 2018	Safety of Household and Similar Electrical Appliances Part 2 Particular Requirements Section 75 Commercial Dispensing Appliances and Vending Machines	<u>IEC 60335-2-75:2012+AMD1:2015+AMD2:2018 CSV</u> Edition 3.2 (2018-10-12) Household and similar electrical appliances - Safety - Part 2-75: Particular requirements for commercial dispensing appliances and vending machines	0	N
27	IS 302 (Part 2/Sec 76) : 1999	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 76 electric fence energizers	<u>IEC 60335-2-76:2018 RLV</u> Household and similar electrical appliances - Safety - Part 2-76: Particular requirements for electric fence energizers	0	N
28	IS 302 (Part 2/Sec 80) : 2017	Household and similar electrical appliances - Safety: Part 2 - 80 particular requirements for fans (First Revision)	<u>IEC 60335-2-80:2015</u> Edition 3.0 (2015-04-16) Household and similar electrical appliances - Safety - Part 2-80: Particular requirements for fans	0	N
29	IS 302 (Part 2/Sec 201) : 2008	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 201 electric immersion water heaters	<u>IEC 60335-2-74:2021</u> Edition 3.0 (2021-09-03) Household and similar electrical appliances - Safety - Part 2-74: Particular requirements for portable	105	Y

		(First Revision)	immersion heaters		
30	IS 302 (Part 2/Sec 202) : 1992	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 202 electric stoves		0	
31	IS 302 (Part 2/Sec 203) : 1994	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 203 electric call bells and buzzers for indoor use		0	
32	IS 302 (Part 2/Sec 204) : 1994	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 204 electric water boilers	<u>IEC 60335-2-15:2012+AMD1:2016+AMD2:2018 CSV</u> Edition 6.2 (2018-11-02) Household and similar electrical appliances - Safety - Part 2-15: Particular requirements for appliances for heating liquids	0	N
33	IS 302 (Part 2/Sec 206) : 1994	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 206 electric coffee makers	<u>IEC 60335-2-15:2012+AMD1:2016+AMD2:2018 CSV</u> Edition 6.2 (2018-11-02) Household and similar electrical appliances - Safety - Part 2-15: Particular requirements for appliances for heating liquids	0	N
34	IS 302 (Part 2/Sec 207) : 1994	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 207 electric hot plates	<u>IEC 60335-2-6:2014</u> Edition 6.0 (2014-02-25) Household and similar electrical appliances - Safety - Part 2-6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances	0	N
35	IS 302 (Part 2/Sec 208) : 1994	Safety of household and similar electrical appliances: Part 2	<u>IEC 60335-2-6:2014+AMD1:2018 CSV</u> Edition 6.1 (2018-05-28)	0	N

		particular requirements: Sec 208 single walled baking ovens	Household and similar electrical appliances - Safety - Part 2-6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances		
36	IS 302 (Part 2/Sec 209) : 1994	Safety of household and similar electrical appliances: Part 2 particular requirements: Sec 209 low speed food grinding machines	IEC 60335-2- 14:2016+AMD1:2019 CSV Edition 6.1 (2019-03-27) Household and similar electrical appliances - Safety - Part 2-14: Particular requirements for kitchen machines	0	N
37	IS 365 : 1983	Specification for electric hot plates (Second Revision)	IEC 60335-2-6:2014 + Amd1 2018	0	N
38	IS 366 : 1991	Electric iron - Specification (Fourth Revision)	-	50	
39	IS 367 : 1993	Electric kettles and jugs for household and similar use - Specification (Fourth Revision)	IEC 60530:1975 Methods for measuring the performance of electric kettles and jugs for household and similar use	1	N
40	IS 368 : 2014	Electric immersion water heaters - Specification (Fifth Revision)		94	
41	IS 369 : 2019	Household electric direct - Acting room heaters - Performance requirements (Fourth Revision)	IEC 60675:1994+AMD1:1998 CSV]Household electric direct- acting room heaters - Methods for measuring performance	1	N
42	IS 374 : 2019	Specification for electric ceiling type fans and regulators (Third Revision)		83	
43	IS 555 : 1979	Specification for electric table type fans and regulators (Third		0	

		Revision)		
44	IS 959 : 1994	Specification for electric soldering irons (Third Revision)		0
45	IS 1169 : 1967	Specification for electric pedestal type fans and regulators (First Revision)		0
46	IS 1287 : 1993	Electric toasters - Specification (Third Revision)		0
47	IS 1401 : 2008	Protection of persons and equipment by enclosures - Probes for verification (Second Revision)		0
48	IS 1415 : 1966	Specification for electric hand - Lamps (Revised)		0
49	IS 1416 : 1972	Specification for safety transformers (First Revision)		0
50	IS 2082 : 2018	Stationary storage type electric water heaters - Specification (Fifth Revision)		74
51	IS 2268 : 1994	Electrical call bells and buzzers for indoor use - Specification (Third Revision)		0
52	IS 2312 : 1967	Specification for propeller type AC ventilating fans (First Revision)		17
53	IS 2994 : 1992	Electric stoves - Specification (Second Revision)		0
54	IS 2997 : 1964	Specification for air circulator type electric fans and regulators		0
55	IS 3412 : 1994	Electric water boilers - Specification (Second Revision)		0
56	IS 3481 : 1966	Specification for electric portable lamp stands and brackets		0
57	IS 3588 :	Specification for electric		0

	1987	axial flow fans (First Revision)			
58	IS 3724 : 2017	Cartridge type heating elements (Non - Embedded Type) - Specification (First Revision)		0	
59	IS 3725 : 1966	Specification for resistance wires, tapes and strips for heating elements		0	
60	IS 3963 : 1987	Specification for roof extractor units (First Revision)		2	
61	IS 4158 : 1986	Specification for solid embedded type electric heating elements (First Revision)		0	
62	IS 4159 : 2021	Mineral Filled Sheathed Heating Elements		0	
63	IS 4250 : 1980	Specification for domestic electric food - Mixers (Liquidizers And Grinders) (First Revision)		77	
64	IS 4327 : 1967	Specification for electric fans and regulators for use in ships		199	
65	IS 4894 : 1987	Specification for centrifugal fans (First Revision)		0	
66	IS 5159 : 1969	Specification for mains - Operated electric shavers		0	
67	IS 5161 : 1969	Specification for flexible electric heating pads for domestic use		0	
68	IS 5579 : 1985	Specification for neon testers (First Revision)		0	
69	IS 5790 : 1985	Specification for domestic electric cooking ovens (First Revision)		0	
70	IS 6272 : 1987	Specification for industrial cooling fans		0	

		(Man Coolers) (First Revision)			
71	IS 6290 : 1986	Specification for steam irons (First Revision)		0	
72	IS 6365 : 1971	Laboratory Electric Ovens		0	
73	IS 6390 (Part 2) : 1992	Domestic electrical clothes washing machines - Specification: Part 2 requirements for tumbler dryers		0	
74	IS 6446 : 1986	Spbcification for mica insulated heating elements (First Revision)		0	
75	IS 6680 : 1992	Railway carriagefans - Specification (First Revision)		0	
76	IS 7137 : 1973	Specification for portable hand - Held mains - Operated electric massagers		0	
77	IS 7154 : 1994	Mains operated electric hair dryers (First Revision)		0	
78	IS 7603 : 1975	Specification for portable low speed food grinding machines		0	
79	IS 8506 : 1977	Specification for laboratory electrical resistance furnaces		0	
80	IS 8978 : 1992	Specification for electric instantaneous water heaters (Second Revision)		0	
81	IS 8985 : 1978	Specification for single walled baking ovens		59	
82	IS 10436 : 1983	Specification for electric frying pans and deep fat fryers		0	
83	IS 10975 : 1984	Electric Gas Lighters		0	
84	IS 11676 : 1995	Microwave ovens for household and similar purposes - Specification (First Revision)		0	
85	IS 11879 :	Specification for electric		0	

	1986	steam cookers			
86	IS 12289 : 1988	Specification for hand held electric engraving tools		0	
87	IS 13231 : 1991	Warming plates - Specification		0	
88	IS 13368 : 1992	Method of centrifugal test for double inlet fans (Industrial Type)		0	
89	IS 13588 : 1993	Spring - Operated impact - Test apparatus and its calibration - Specification		0	
90	IS 13836 : 1993	Potato peeling machine (Electrically Operated) - Specification		0	
91	IS 13850 : 1993	Dish washing machine, heavy duty, ratchet type - Specification		0	
92	IS 13886 : 1993	Specification for bimetallic thermostats and thermal cutouts for use with electric iron		0	
93	IS 14144 : 1994	Electric coffee makers		0	
94	IS 14145 : 1994	Mains operated clocks specification		0	
95	IS 14155 : 1994	Domestic electric clothes washing machines for household use - Specification		0	
96	IS 15644 : 2006	Safety of electric toys		0	
97	IS 19014 : 2022	Household Electric Cooking Appliances - Performance Requirements of Electric Hobs		170	
98	IS/IEC 60730-1 : 1999	Automatic electrical controls for household and similar use : part 1 General Requirements			
99	IS/IEC 60730-2-9) : 2011	Automatic Electrical Controls for Household and Similar Use Part 2 Particular Requirements			

		Section 9 Temperature Sensing Controls		
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Annex- 3
IEC PROGRAMME OF WORK

TC59 publications generated on 2023-05-10	
Reference	Title
IEC 60704-1:2021	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 1: General requirements
IEC PAS 60704-2-15:2008	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-15: Particular requirements for household food waste disposers
IEC 60704-3:2019	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 3: Procedure for determining and verifying declared noise emission values
IEC 61176:1993	Hand-held electric mains voltage operated circular saws - Methods for measuring the performance
IEC TR 61592:2003	Household electrical appliances - Guidelines for consumer panel testing
IEC 62301:2011	Household electrical appliances - Measurement of standby power
IEC 62849:2016	Performance evaluation methods of mobile household robots
IEC TS 62950:2017	Household and similar electrical appliances - Specifying smart capabilities of appliances and devices - General aspects
IEC 63008:2020	Household and similar electrical appliances - Accessibility of control elements, doors, lids, drawers and handles
IEC 63237-1:2022	Household and similar electrical appliances - Product information properties - Part 1: Fundamentals
IEC TR 63250:2021	Household and similar electrical appliances - Method for measuring performance - Assessment of repeatability, reproducibility and uncertainty
IEC 63252:2020	Energy consumption of vending machines

SC59A publications generated on 2023-05-10	
Reference	Title
IEC 60436:2015+AMD1:2020 CSV	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-3: Particular requirements for dishwashers

IEC 60704-2-3:2017	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-3: Particular requirements for dishwashers
IEC 63136:2019	Electric dishwashers for commercial use - Test methods for measuring the performance

SC59C publications generated on 2023-05-10

Reference	Title
IEC 60299:2014	Household electric blankets - Methods for measuring performance
IEC 60379:2023	Methods for measuring the performance of electric storage water heaters for household purposes
IEC 60531:1999	Household electric thermal storage room heaters - Methods for measuring performance
IEC 60675:1994+AMD1:1998+AMD2:2018 CSV	Household electric direct-acting room heaters - Methods for measuring performance
IEC 60675-2:2020	Household electric direct-acting room heaters - Methods for measuring performance - Part 2: Additional provisions for the measurement of the radiant factor
IEC 60675-3:2020	Household electric direct-acting room heaters - Methods for measuring performance - Part 3: Additional provisions for the measurement of the radiation efficiency
IEC 60704-2-2:2009	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-2: Particular requirements for fan heaters
IEC 60704-2-5:2005+AMD1:2014 CSV	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-5: Particular requirements for electric thermal storage room heaters
IEC 60704-2-18:2022	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-18: Particular requirements for electric water heaters
IEC 61255:2014	Household electric heating pads - Methods for measuring performance
IEC 62999:2016+AMD1:2021 CSV	Electric room heating - Underfloor heating - Performance characteristics - Definitions, method of testing, sizing and formula symbols
IEC 63159-1:2021	Household electric instantaneous water heaters - Methods for measuring the performance - Part 1: General aspects
IEC 63159-2-1:2021	Household electric instantaneous water heaters - Methods for measuring the performance - Part 2-1: Multifunctional electric instantaneous water heaters

IEC 63159-2-2:2021	Household electric instantaneous water heaters - Methods for measuring the performance - Part 2-2: Efficiency of single point of use electric instantaneous water heaters
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SC59D publications generated on 2023-05-10

Reference	Title
IEC 60456:2010+AMD1:2022 CSV	Clothes washing machines for household use - Methods for measuring the performance
IEC 60704-2-4:2011	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-4: Particular requirements for washing machines and spin extractors
IEC 60704-2-6:2012	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-6: Particular requirements for tumble dryers
IEC 60704-2-16:2019	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-16: Particular requirements for washer-dryers
IEC 60734:2012	Household electrical appliances - Performance - Water for testing
IEC 61121:2012	Tumble dryers for household use - Methods for measuring the performance
IEC 62512:2012	Electric clothes washer-dryers for household use - Methods for measuring the performance

SC59F publications generated on 2023-05-10

Reference	Title
IEC 60704-2-1:2020	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-1: Particular requirements for dry vacuum cleaners
IEC 60704-2-17:2020	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-17: Particular requirements for dry-cleaning robots
IEC TS 62885-1:2020	Surface cleaning appliances - Part 1: General requirements on test material and test equipment
IEC 62885-2:2021	Surface cleaning appliances - Part 2: Dry vacuum cleaners for household or similar use - Methods for measuring the performance
IEC 62885-3:2014	Surface cleaning appliances - Part 3: Wet carpet cleaning appliances - Methods for measuring the performance
IEC 62885-4:2020	Surface cleaning appliances - Part 4: Cordless dry vacuum cleaners for household or similar use - Methods for measuring the performance

IEC 62885-5:2018	Surface cleaning appliances - Part 5: High pressure cleaners and steam cleaners for household and commercial use - Methods for measuring performance
IEC/ASTM 62885-6:2018	Surface cleaning appliances - Part 6: Wet hard floor cleaning appliances for household or similar use - Methods for measuring the performance
IEC/ASTM 62885-7:2020+AMD1:2022 CSV	Surface cleaning appliances - Part 7: Dry cleaning robots for household or similar use - Methods for measuring the performance
IEC 62885-8:2019	Surface cleaning appliances - Part 8: Dry vacuum cleaners for commercial use - Methods for measuring the performance
IEC 62885-9:2019	Surface cleaning appliances - Part 9: Floor treatment machines with or without traction drive, for commercial use - Methods for measuring the performance

SC59L publications generated on 2023-05-10

Reference	Title
IEC 60311:2016	Electric irons for household or similar use - Methods for measuring performance
IEC 60442:1998+AMD1:2003 CSV	Electric toasters for household and similar purposes - Methods for measuring the performance
IEC 60496:1975	Methods for measuring the performance of electric warming plates for household and similar purposes
IEC 60530:1975	Methods for measuring the performance of electric kettles and jugs for household and similar use
IEC 60619:1993	Electrically operated food preparation appliances - Methods for measuring the performance
IEC 60661:1999+AMD1:2003+AMD2:2005 CSV	Methods for measuring the performance of electric household coffee makers
IEC 60661:1999+AMD1:2003 CSV	Methods for measuring the performance of electric household coffee makers
IEC 60665:2018	A.C. ventilating fans and regulators for household and similar purposes - Methods for measuring performance
IEC 60704-2-7:2020	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-7: Particular requirements for fans
IEC 60704-2-8:2020	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-8: Particular requirements for electric shavers, hair clippers or trimmers

IEC 60704-2-9:2003	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-9: Particular requirements for electric hair care appliances
IEC 60704-2-11:1998	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-11: Particular requirements for electrically-operated food preparation
IEC 60879:2019	Comfort fans and regulators for household and similar purposes - Methods for measuring performance
IEC 61254:1993	Electric shavers for household use - Methods for measuring the performance
IEC 61309:1995	Deep-fat fryers for household use - Methods for measuring the performance
IEC 61855:2022	Household and similar use electrical hair care appliances - Methods for measuring the performance
IEC TS 62835:2015	Electric toasters for household and similar use - Methods and measurements for improving accessibility
IEC 62863:2017	Methods of measuring performances of electric hair clippers or trimmers for household use
IEC 62947:2022	Electrically operated spray seats for household and similar use - Methods for measuring the performance - General test methods of spray seats
IEC 63174:2021	Electrically operated toothbrushes - Methods for measuring the performance

TC61 publications generated on 2023-05-10

Reference	Title
IEC 60335-1:2020	Household and similar electrical appliances - Safety - Part 1: General requirements
IEC 60335-2-2:2019	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances
IEC 60335-2-3:2022	Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons
IEC 60335-2-4:2021	Household and similar electrical appliances - Safety - Part 2-4: Particular requirements for spin extractors
IEC 60335-2-5:2012+AMD1:2018 CSV	Household and similar electrical appliances - Safety - Part 2-5: Particular requirements for dishwashers
IEC 60335-2-6:2014+AMD1:2018 CSV	Household and similar electrical appliances - Safety - Part 2-6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances
IEC 60335-2-7:2019	Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines

IEC 60335-2-8:2022	Household and similar electrical appliances - Safety - Part 2-8: Particular requirements for shavers, hair clippers and similar appliances
IEC 60335-2-9:2019	Household and similar electrical appliances - Safety - Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances
IEC 60335-2-10:2021	Household and similar electrical appliances - Safety - Part 2-10: Particular requirements for floor treatment machines and wet scrubbing machines
IEC 60335-2-11:2019	Household and similar electrical appliances - Safety - Part 2-11: Particular requirements for tumble dryers
IEC 60335-2-12:2002+AMD1:2008+AMD2:2017 CSV	Household and similar electrical appliances - Safety - Part 2-12: Particular requirements for warming plates and similar appliances
IEC 60335-2-13:2021	Household and similar electrical appliances - Safety - Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances
IEC 60335-2-14:2016+AMD1:2019 CSV	Household and similar electrical appliances - Safety - Part 2-14: Particular requirements for kitchen machines
IEC 60335-2-15:2012+AMD1:2016+AMD2:2018 CSV	Household and similar electrical appliances - Safety - Part 2-15: Particular requirements for appliances for heating liquids
IEC 60335-2-16:2022	Household and similar electrical appliances - Safety - Part 2-16: Particular requirements for food waste disposers
IEC 60335-2-17:2022	Household and similar electrical appliances - Safety - Part 2-17: Particular requirements for blankets, pads, clothing and similar flexible heating appliances
IEC 60335-2-21:2022	Household and similar electrical appliances - Safety - Part 2-21: Particular requirements for storage water heaters
IEC 60335-2-23:2016+AMD1:2019 CSV	Household and similar electrical appliances - Safety - Part 2-23: Particular requirements for appliances for skin or hair care
IEC 60335-2-26:2002+AMD1:2008 CSV	Household and similar electrical appliances - Safety - Part 2-26: Particular requirements for clocks
IEC 60335-2-27:2019	Household and similar electrical appliances - Safety - Part 2-27: Particular requirements for appliances for skin exposure to optical radiation
IEC 60335-2-28:2021	Household and similar electrical appliances - Safety - Part 2-28: Particular requirements for sewing machines
IEC 60335-2-29:2016+AMD1:2019 CSV	Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers
IEC 60335-2-30:2009+AMD1:2016+AMD2:2021 CSV	Household and similar electrical appliances - Safety - Part 2-30: Particular requirements for room heaters

IEC 60335-2-31:2012+AMD1:2016+AMD2:2018 CSV	Household and similar electrical appliances - Safety - Part 2-31: Particular requirements for range hoods and other cooking fume extractors
IEC 60335-2-32:2019	Household and similar electrical appliances - Safety - Part 2-32: Particular requirements for massage appliances
IEC 60335-2-35:2012+AMD1:2016+AMD2:2020 CSV	Household and similar electrical appliances - Safety - Part 2-35: Particular requirements for instantaneous water heaters
IEC 60335-2-36:2021	Household and similar electrical appliances - Safety - Part 2-36: Particular requirements for commercial electric cooking ranges, ovens, hobs and hob elements
IEC 60335-2-37:2021	Household and similar electrical appliances - Safety - Part 2-37: Particular requirements for commercial electric doughnut fryers and deep fat fryers
IEC 60335-2-38:2021	Household and similar electrical appliances - Safety - Part 2-38: Particular requirements for commercial electric griddles and griddle grills
IEC 60335-2-39:2021	Household and similar electrical appliances - Safety - Part 2-39: Particular requirements for commercial electric multi-purpose cooking pans
IEC 60335-2-41:2012	Household and similar electrical appliances - Safety - Part 2-41: Particular requirements for pumps
IEC 60335-2-42:2021	Household and similar electrical appliances - Safety - Part 2-42: Particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection ovens
IEC 60335-2-43:2017	Household and similar electrical appliances - Safety - Part 2-43: Particular clothes dryers and towel rails
IEC 60335-2-44:2021	Household and similar electrical appliances - Safety - Part 2-44: Particular requirements for ironers
IEC 60335-2-45:2002+AMD1:2008+AMD2:2011 CSV	Household and similar electrical appliances - Safety - Part 2-45: Particular requirements for portable heating tools and similar appliances
IEC 60335-2-47:2021	Household and similar electrical appliances - Safety - Part 2-47: Particular requirements for commercial electric boiling pans
IEC 60335-2-48:2021	Household and similar electrical appliances - Safety - Part 2-48: Particular requirements for commercial electric grillers and toasters
IEC 60335-2-49:2021	Household and similar electrical appliances - Safety - Part 2-49: Particular requirements for commercial electric appliances for keeping food and crockery warm
IEC 60335-2-50:2021	Household and similar electrical appliances - Safety - Part 2-50: Particular requirements for commercial electric bains-marie

IEC 60335-2-51:2019	Household and similar electrical appliances - Safety - Part 2-51: Particular requirements for stationary circulation pumps for heating and service water installations
IEC 60335-2-52:2021	Household and similar electrical appliances - Safety - Part 2-52: Particular requirements for oral hygiene appliances
IEC 60335-2-53:2011+AMD1:2017+AMD2:2021 CSV	Household and similar electrical appliances - Safety - Part 2-53: Particular requirements for sauna heating appliances and infrared cabins
IEC 60335-2-54:2022	Household and similar electrical appliances - Safety - Part 2-54: Particular requirements for surface-cleaning appliances for household use employing liquids or steam
IEC 60335-2-55:2021	Household and similar electrical appliances - Safety - Part 2-55: Particular requirements for electrical appliances for use with aquariums and garden ponds
IEC 60335-2-58:2017	Household and similar electrical appliances - Safety - Part 2-58: Particular requirements for commercial electric dishwashing machines
IEC 60335-2-59:2021	Household and similar electrical appliances - Safety - Part 2-59: Particular requirements for insect killers
IEC 60335-2-60:2017	Household and similar electrical appliances - Safety - Part 2-60: Particular requirements for whirlpool baths and whirlpool spas
IEC 60335-2-61:2002+AMD1:2005+AMD2:2008 CSV	Household and similar electrical appliances - Safety - Part 2-61: Particular requirements for thermal storage room heaters
IEC 60335-2-62:2019	Household and similar electrical appliances - Safety - Part 2-62: Particular requirements for commercial electric rinsing sinks
IEC 60335-2-64:2021	Household and similar electrical appliances - Safety - Part 2-64: Particular requirements for commercial electric kitchen machines
IEC 60335-2-65:2002+AMD1:2008+AMD2:2015 CSV	Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances
IEC 60335-2-66:2002+AMD1:2008+AMD2:2011 CSV	Household and similar electrical appliances - Safety - Part 2-66: Particular requirements for water-bed heaters
IEC 60335-2-73:2002+AMD1:2006+AMD2:2009 CSV	Household and similar electrical appliances - Safety - Part 2-73: Particular requirements for fixed immersion heaters
IEC 60335-2-74:2021	Household and similar electrical appliances - Safety - Part 2-74: Particular requirements for portable immersion heaters
IEC 60335-2-75:2012+AMD1:2015+AMD2:2018 CSV	Household and similar electrical appliances - Safety - Part 2-75: Particular requirements for commercial dispensing appliances and vending machines

IEC 60335-2-78:2021	Household and similar electrical appliances - Safety - Part 2-78: Particular requirements for outdoor barbecues
IEC 60335-2-80:2015	Household and similar electrical appliances - Safety - Part 2-80: Particular requirements for fans
IEC 60335-2-81:2015+AMD1:2017+AMD2:2020 CSV	Household and similar electrical appliances - Safety - Part 2-81: Particular requirements for foot warmers and heating mats
IEC 60335-2-82:2017+AMD1:2020 CSV	Household and similar electrical appliances - Safety - Part 2-82: Particular requirements for amusement machines and personal service machines
IEC 60335-2-83:2001+AMD1:2008 CSV	Household and similar electrical appliances - Safety - Part 2-83: Particular requirements for heated gullies for roof drainage
IEC 60335-2-84:2019	Household and similar electrical appliances - Safety - Part 2-84: Particular requirements for toilet appliances
IEC 60335-2-85:2022	Household and similar electrical appliances - Safety - Part 2-85: Particular requirements for fabric steamers
IEC 60335-2-95:2019	Household and similar electrical appliances - Safety - Part 2-95: Particular requirements for drives for vertically moving garage doors for residential use
IEC 60335-2-96:2019	Household and similar electrical appliances - Safety - Part 2-96: Particular requirements for flexible sheet heating elements for room heating
IEC 60335-2-97:2016+AMD1:2019 CSV	Household and similar electrical appliances - Safety - Part 2-97: Particular requirements for drives for shutters, awnings, blinds and similar equipment
IEC 60335-2-98:2002+AMD1:2004+AMD2:2008 CSV	Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers
IEC 60335-2-99:2021	Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods
IEC 60335-2-101:2002+AMD1:2008+AMD2:2014 CSV	Household and similar electrical appliances - Safety - Part 2-101: Particular requirements for vaporizers
IEC 60335-2-102:2017	Household and similar electrical appliances - Safety - Part 2-102: Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections
IEC 60335-2-103:2015+AMD1:2017+AMD2:2019 CSV	Household and similar electrical appliances - Safety - Part 2-103: Particular requirements for drives for gates, doors and windows
IEC 60335-2-105:2016+AMD1:2019 CSV	Household and similar electrical appliances - Safety - Part 2-105: Particular requirements for multifunctional shower cabinets
IEC 60335-2-106:2021	Household and similar electrical appliances - Safety - Part 2-106: Particular requirements for heated carpets and for heating units for room heating installed under removable

	floor coverings
IEC 60335-2-108:2008	Household and similar electrical appliances - Safety - Part 2-108: Particular requirements for electrolyzers
IEC 60335-2-109:2010+AMD1:2013+AMD2:2016 CSV	Household and similar electrical appliances - Safety - Part 2-109: Particular requirements for UV radiation water treatment appliances
IEC 60335-2-111:2015	Household and similar electrical appliances - Safety - Part 2-111: Particular requirements for electric ondol mattress with a non-flexible heated part
IEC 60335-2-113:2016+AMD1:2021 CSV	Household and similar electrical appliances - Safety - Part 2-113: Particular requirements for beauty care appliances incorporating lasers and intense light sources
IEC 60335-2-114:2022	Household and similar electrical appliances - Safety - Part 2-114: Particular requirements for Personal-e-Transporters
IEC 60335-2-115:2021	Household and similar electrical appliances - Safety - Part 2-115: Particular requirements for skin beauty care appliances
IEC 60335-2-116:2019	Household and similar electrical appliances - Safety - Part 2-116: Particular requirements for furniture with electrically motorized parts
IEC 60335-2-119:2021	Household and similar electrical appliances - Safety - Part 2-119: Particular requirements for commercial vacuum packaging appliances
IEC 61770:2008+AMD1:2015 CSV	Electric appliances connected to the water mains - Avoidance of backsiphonage and failure of hose-sets
IEC 62115:2017	Electric toys - Safety

SC61B publications generated on 2023-05-10

Reference	Title
IEC 60335-2-25:2020	Household and similar electrical appliances - Safety - Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens
IEC 60335-2-90:2015+AMD1:2019 CSV	Household and similar electrical appliances - Safety - Part 2-90: Particular requirements for commercial microwave ovens
IEC 60335-2-110:2013+AMD1:2019 CSV	Household and similar electrical appliances - Safety - Part 2-110: Particular requirements for commercial microwave appliances with insertion or contacting applicators

SC61H publications generated on 2023-05-10

Reference	Title
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IEC 60335-2-70:2002+AMD1:2007+AMD2:2013 CSV	Household and similar electrical appliances - Safety - Part 2-70: Particular requirements for milking machines
IEC 60335-2-71:2018	Household and similar electrical appliances - Safety - Part 2-71: Particular requirements for electrical heating appliances for breeding and rearing animals
IEC 60335-2-76:2018	Household and similar electrical appliances - Safety - Part 2-76: Particular requirements for electric fence energizers
IEC 60335-2-86:2018	Household and similar electrical appliances - Safety - Part 2-86: Particular requirements for electric fishing machines
IEC 60335-2-87:2016+AMD1:2018 CSV	Household and similar electrical appliances - Safety - Part 2-87: Particular requirements for electrical animal stunning equipment

SC61J publications generated on 2023-05-10

Reference	Title
IEC 60335-2-67:2021	Household and similar electrical appliances - Safety - Part 2-67: Particular requirements for floor treatment machines, for commercial use
IEC 60335-2-68:2021	Household and similar electrical appliances - Safety - Part 2-68: Particular requirements for spray extraction machines, for commercial use
IEC 60335-2-69:2021	Household and similar electrical appliances - Safety - Part 2-69: Particular requirements for wet and dry vacuum cleaners, including power brush, for commercial use
IEC 60335-2-72:2021	Household and similar electrical appliances - Safety - Part 2-72: Particular requirements for floor treatment machines with or without traction drive, for commercial use
IEC 60335-2-79:2021	Household and similar electrical appliances - Safety - Part 2-79: Particular requirements for high pressure cleaners and steam cleaners
IEC 62784:2017+AMD1:2019 CSV	Vacuum cleaners and dust extractors providing equipment protection level Dc for the collection of combustible dusts - Particular requirements
IEC 63327:2021	Automatic floor treatment machines for commercial use - Particular requirements

TC72 publications generated on 2023-05-10

Reference	Title
IEC 60730-1:2022	Automatic electrical controls - Part 1: General requirements
IEC 60730-2-3:2006	Automatic electrical controls for household and similar use - Part 2-3: Particular requirements for thermal protectors for ballasts for tubular fluorescent lamps

IEC 60730-2-5:2013+AMD1:2017+AMD2:2021 CSV	Automatic electrical controls - Part 2-5: Particular requirements for automatic electrical burner control systems
IEC 60730-2-6:2015+AMD1:2019 CSV	Automatic electrical controls - Part 2-6: Particular requirements for automatic electrical pressure sensing controls including mechanical requirements
IEC 60730-2-7:2015	Automatic electrical controls - Part 2-7: Particular requirements for timers and time switches
IEC 60730-2-8:2018+AMD1:2021 CSV	Automatic electrical controls - Part 2-8: Particular requirements for electrically operated water valves, including mechanical requirements
IEC 60730-2-9:2015+AMD1:2018+AMD2:2020 CSV	Automatic electrical controls - Part 2-9: Particular requirements for temperature sensing control
IEC 60730-2-10:2006	Automatic electrical controls for household and similar use - Part 2-10: Particular requirements for motor-starting relays
IEC 60730-2-11:2019	Automatic electrical controls - Part 2-11: Particular requirements for energy regulators
IEC 60730-2-12:2015	Automatic electrical controls - Part 2-12: Particular requirements for electrically operated door locks
IEC 60730-2-13:2017	Automatic electrical controls - Part 2-13: Particular requirements for humidity sensing controls
IEC 60730-2-14:2017+AMD1:2019+AMD2:2021 CSV	Automatic electrical controls - Part 2-14: Particular requirements for electric actuators
IEC 60730-2-15:2017	Automatic electrical controls - Part 2-15: Particular requirements for automatic electrical air flow, water flow and water level sensing controls
IEC 60730-2-22:2014	Automatic electrical controls - Part 2-22: Particular requirements for thermal motor protectors

Sl. No	Annex-4 (Details of IEC TC 61 standards yet to be adapted/ adopted by ETD 32		
	Reference	Title	Remarks regarding alignment with IEC 60335-1 (Ed-6.0)
1.	IEC 60335-2-5:2012+AMD1:2018 CSV	Household and similar electrical appliances - Safety - Part 2-5: Particular requirements for dishwashers	N
2.	IEC 60335-2-10:2021	Household and similar electrical appliances - Safety - Part 2-10: Particular requirements for floor treatment machines and wet scrubbing machines	Y
3.	IEC 60335-2-16:2022	Household and similar electrical appliances - Safety - Part 2-16: Particular requirements for food waste disposers	Y
4.	IEC 60335-2-17:2022	Household and similar electrical appliances - Safety - Part 2-17: Particular requirements for blankets, pads, clothing and similar flexible heating appliances	Y
5.	IEC 60335-2-28:2021	Household and similar electrical appliances - Safety - Part 2-28: Particular requirements for sewing machines	Y
6.	IEC 60335-2-29:2016+AMD1:2019 CSV	Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers	N
7.	IEC 60335-2-36:2021	Household and similar electrical appliances - Safety - Part 2-36: Particular requirements for commercial electric cooking ranges, ovens, hobs and hob elements	Y
8.	IEC 60335-2-37:2021	Household and similar electrical appliances - Safety - Part 2-37: Particular requirements for commercial electric doughnut fryers and deep fat fryers	Y
9.	IEC 60335-2-38:2021	Household and similar electrical appliances - Safety - Part 2-38: Particular requirements for commercial electric griddles and griddle grills	Y
10.	IEC 60335-2-39:2021	Household and similar electrical appliances - Safety - Part 2-39: Particular requirements for commercial electric multi-purpose cooking pans	Y
11.	IEC 60335-2-42:2021	Household and similar electrical appliances - Safety - Part 2-42: Particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection ovens	Y
12.	IEC 60335-2-43:2017	Household and similar electrical appliances - Safety - Part 2-43: Particular clothes dryers and towel rails	N

13.	IEC 60335-2-44:2021	Household and similar electrical appliances - Safety - Part 2-44: Particular requirements for ironers	Y
14.	IEC 60335-2-47:2021	Household and similar electrical appliances - Safety - Part 2-47: Particular requirements for commercial electric boiling pans	Y
15.	IEC 60335-2-48:2021	Household and similar electrical appliances - Safety - Part 2-48: Particular requirements for commercial electric grillers and toasters	Y
16.	IEC 60335-2-49:2021	Household and similar electrical appliances - Safety - Part 2-49: Particular requirements for commercial electric appliances for keeping food and crockery warm	Y
17.	IEC 60335-2-50:2021	Household and similar electrical appliances - Safety - Part 2-50: Particular requirements for commercial electric bains-marie	Y
18.	IEC 60335-2-51:2019	Household and similar electrical appliances - Safety - Part 2-51: Particular requirements for stationary circulation pumps for heating and service water installations	N
19.	IEC 60335-2-52:2021	Household and similar electrical appliances - Safety - Part 2-52: Particular requirements for oral hygiene appliances	Y
20.	IEC 60335-2-53:2011+AMD1:2017+A MD2:2021 CSV	Household and similar electrical appliances - Safety - Part 2-53: Particular requirements for sauna heating appliances and infrared cabins	
21.	IEC 60335-2-54:2022	Household and similar electrical appliances - Safety - Part 2-54: Particular requirements for surface-cleaning appliances for household use employing liquids or steam	Y
22.	IEC 60335-2-55:2021	Household and similar electrical appliances - Safety - Part 2-55: Particular requirements for electrical appliances for use with aquariums and garden ponds	Y
23.	IEC 60335-2-58:2017	Household and similar electrical appliances - Safety - Part 2-58: Particular requirements for commercial electric dishwashing machines	N
24.	IEC 60335-2-60:2017	Household and similar electrical appliances - Safety - Part 2-60: Particular requirements for whirlpool baths and whirlpool spas	N
25.	IEC 60335-2-61:2002+AMD1:2005+A MD2:2008 CSV	Household and similar electrical appliances - Safety - Part 2-61: Particular requirements for thermal storage room heaters	N
26.	IEC 60335-2-62:2019	Household and similar electrical appliances - Safety - Part 2-62: Particular requirements for commercial electric rinsing sinks	N
27.	IEC 60335-2-64:2021	Household and similar electrical appliances - Safety - Part 2-64: Particular requirements for commercial electric kitchen machines	Y
28.	IEC 60335-2-65:2002+AMD1:2008+A MD2:2015 CSV	Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances	N
29.	IEC 60335-2-66:2002+AMD1:2008+A	Household and similar electrical appliances - Safety - Part 2-66: Particular requirements for water-bed heaters	N

	MD2:2011 CSV		
30.	IEC 60335-2-73:2002+AMD1:2006+A MD2:2009 CSV	Household and similar electrical appliances - Safety - Part 2-73: Particular requirements for fixed immersion heaters	N
31.	IEC 60335-2-78:2021	Household and similar electrical appliances - Safety - Part 2-78: Particular requirements for outdoor barbecues	Y
32.	IEC 60335-2-81:2015+AMD1:2017+A MD2:2020 CSV	Household and similar electrical appliances - Safety - Part 2-81: Particular requirements for foot warmers and heating mats	N
33.	IEC 60335-2-82:2017+AMD1:2020 CSV	Household and similar electrical appliances - Safety - Part 2-82: Particular requirements for amusement machines and personal service machines	N
34.	IEC 60335-2-83:2001+AMD1:2008 CSV	Household and similar electrical appliances - Safety - Part 2-83: Particular requirements for heated gullies for roof drainage	N
35.	IEC 60335-2-84:2019	Household and similar electrical appliances - Safety - Part 2-84: Particular requirements for toilet appliances	N
36.	IEC 60335-2-85:2022	Household and similar electrical appliances - Safety - Part 2-85: Particular requirements for fabric steamers	Y
37.	IEC 60335-2-95:2019	Household and similar electrical appliances - Safety - Part 2-95: Particular requirements for drives for vertically moving garage doors for residential use	N
38.	IEC 60335-2-96:2019	Household and similar electrical appliances - Safety - Part 2-96: Particular requirements for flexible sheet heating elements for room heating	N
39.	IEC 60335-2-97:2016+AMD1:2019 CSV	Household and similar electrical appliances - Safety - Part 2-97: Particular requirements for drives for shutters, awnings, blinds and similar equipment	N
40.	IEC 60335-2-98:2002+AMD1:2004+A MD2:2008 CSV	Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers	N
41.	IEC 60335-2-99:2021	Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods	Y
42.	IEC 60335-2-101:2002+AMD1:2008+AMD2:2014 CSV	Household and similar electrical appliances - Safety - Part 2-101: Particular requirements for vaporizers	N
43.	IEC 60335-2-102:2017	Household and similar electrical appliances - Safety - Part 2-102: Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections	N
44.	IEC 60335-2-103:2015+AMD1:2017+AMD2:2019 CSV	Household and similar electrical appliances - Safety - Part 2-103: Particular requirements for drives for gates, doors and windows	N
45.	IEC 60335-2-105:2016+AMD1:2019 CSV	Household and similar electrical appliances - Safety - Part 2-105: Particular requirements for multifunctional shower cabinets	N

46.	IEC 60335-2-106:2021	Household and similar electrical appliances - Safety - Part 2-106: Particular requirements for heated carpets and for heating units for room heating installed under removable floor coverings	Y
47.	IEC 60335-2-108:2008	Household and similar electrical appliances - Safety - Part 2-108: Particular requirements for electrolyzers	N
48.	IEC 60335-2-109:2010+AMD1:2013+AMD2:2016 CSV	Household and similar electrical appliances - Safety - Part 2-109: Particular requirements for UV radiation water treatment appliances	N
49.	IEC 60335-2-113:2016+AMD1:2021 CSV	Household and similar electrical appliances - Safety - Part 2-113: Particular requirements for beauty care appliances incorporating lasers and intense light sources	N
50.	IEC 60335-2-114:2022	Household and similar electrical appliances - Safety - Part 2-114: Particular requirements for Personal-e-Transporters	Y
51.	IEC 60335-2-115:2021	Household and similar electrical appliances - Safety - Part 2-115: Particular requirements for skin beauty care appliances	Y
52.	IEC 60335-2-116:2019	Household and similar electrical appliances - Safety - Part 2-116: Particular requirements for furniture with electrically motorized parts	N
53.	IEC 60335-2-119:2021	Household and similar electrical appliances - Safety - Part 2-119: Particular requirements for commercial vacuum packaging appliances	Y

Annex-5

Date	Document No.
25-04-2023	Doc no ETD 32 (22186)WC

Sl. No.	Name of the Organization	Name/number of part/section of draft NEC	Clause / Sub-Clause	Paragraph/ Figure/Table	Type of Comment (General/Editorial/Technical)	Comments	Proposed Change
1	Bajaj Electricals Limited	IS 302-2-6/IEC 60335-2-6	1	1 th Paragraph	Technical	Why stationary is mentioned, as ICT is portable appliance	“Stationary” word is not mentioned in Indian standard, so we shall exclude IEC for the scope
2	Bajaj Electricals Limited	IS 302-2-6/IEC 60335-2-6	3.1.9.1 01	2 nd Paragraph	Technical	Capacity of cooling oil is not defined	It shall be as IS 302-2-6 i.e half of the capacity of vessel used for testing
3	Bajaj Electricals Limited	IS 302-2-6/IEC 60335-2-6	15.101	2 nd Paragraph	Technical	Why temperature of water is changed from 25±5°C to 20±5°C, difficult to maintain in room temperature	Keep it same like IS 302-26
4	Bajaj Electricals Limited	IS 302-2-6/IEC 60335-2-6	22.120	Note	Technical	Need to add note about splinters	Splinter details shall be mentioned whether to consider or not as per the reference standard (IS 10322 Part 5 Sec 3 Cl 7.5 Para 4)
5	Bajaj Electricals Limited	IS 302-2-6/IEC 60335-2-6	22.120	-	Technical	Plane pieces of curved Glass will not be like the final Curved Glass.	Curved glass shall be non-applicable as per this clause

Annex-6

Date:	Document No.
24.04.2023	Doc no ETD 32 (22312)WC

Sl. No.	Name of the Organization	Name/number of part/section of draft NEC	Clause/Sub-Clause	Paragraph/ Figure/ Table	Type of Comment (General/Editorial/Technical)	Comments	Proposed Change
1	Bajaj Electricals Limited	IEC 60335-2-9/IS 302-2-9	CL-7.14	PARA-2	Technical	Dimension of triangle was mentioned as 12mm in Indian standard	Need clarity or change from 20mm to 12mm

Annex-7

Date:	Document No.
17.04.2023	Doc no ETD 32 (22184)WC

Sl. No.	Name of the Organization	Name/number of part/section of draft NEC	Clause/Sub-Clause	Paragraph/ Figure/ Table	Type of Comment (General/Editorial/Technical)	Comments	Proposed Change
1	Bajaj Electricals Limited	IEC 60335-1/IS 302-1	5.7	1	Technical	Need to change the ambient temperature as per Indian Climatic condition	Keep the ambient temperature as 27 instead of 25 as it is present in the current

							Indian Standard
2	Bajaj Electricals Limited	IEC 60335-1/IS 302-1	7.12	1	General	Instruction Manual shall be in hard copy form should not be a mandate.	Electronic form must also be included as an option.
3	Bajaj Electricals Limited	IEC 60335-1/IS 302-1	7.12.9	2	General	The statement In Addition should not be used.	Instruction Manual shall be provided either in Electronic form/QR code or hard copy or any other form.
4	Bajaj Electricals Limited	IEC 60335-1/IS 302-1	12	All	General	Certified Batteries as per relevant Indian Standard can be used instead of all the test mentioned.	Add the statement is battery is IS certified then tests mentioned in this clause shall not be applicable.
5	LG Electronics India Private Limited	IEC 60335-1/IS 302-1	5.7	1	Technical	Need to change the ambient temperature as per Indian Climatic condition	Keep the ambient temperature as 27°C instead of 25 °C as it will require redevelopment of product.
6	LG Electronics India Private Limited	IEC 60335-1/IS 302-1	7.12	1	General	Instruction Manual shall be in hard copy form should not be a mandate.	Electronic form must also be included as an option like QR Code or

							weblink
7	LG Electronics India Private Limited	IEC 60335-1/IS 302-1	7.12.9	2	General	The statement In Addition should not be used.	Electronic form must also be included as an option like QR Code or weblink

Annex-8

Date:	Document No.
17.04.2023	ETD 32 (22185)WC

Sl. No.	Name of the Organization	Name/number of part/section of draft NEC	Clause/Sub-Clause	Paragraph/Figure/Table	Type of Comment (General/Editorial/Technical)	Comments	Proposed Change
1	Bajaj Electricals Limited	IEC 60335-2-3/IS 302-2-3	1	2	General	In India the minimum wattage for Irons is 600W. For these products with resistive load battery cannot be used.	Battery Scope need to be removed for Irons in India
2	Bajaj Electricals Limited	IEC 60335-2-3/IS 302-2-3	11.3	1	Technical	The surface of Irons are not even and hence the copper disc will not cover the whole area. Example Rotary Knob	Current practice of thermocouple usage shall be followed.
3	Bajaj Electricals Limited	IEC 60335-2-	22.13	All	Technical	This clause restricting the design of Iron box.	It can removed /updated. Instead of

		3/IS 302-2-3					Design Specification, standard can specify the requirement/Pass Criteria. Also need clarity on the clause.

Annex-9

Date	Document No.
21-04-2023	ETD 32 (22187) WC

Sl. No.	Name of the Organization	Name/number of part/section of draft NEC	Clause / Sub-Clause	Paragraph / Figure/Table	Type of Comment (General /Editorial/Technical)	Comments	Proposed Change
1	Bajaj Electricals Limited	IS 302-2-14/IEC 60335-2-14	6.1	1 st Paragraph	Editorial	Need Clarification on Class 0 and Class I for being under 150V. (Seems to be a typo error)	Rated voltage shall not be exceeded 250 V
2	Bajaj Electricals Limited	IS 302-2-14/IEC 60335-2-14	20.104	4 th Paragraph	General	Need more clarity of testing method	-

Annex-10

Date	Document No.
25-04-2023	Doc no ETD 32 (22310)WC

Sl. No.	Name of the Organization	Name/number of part/section of draft NEC	Clause / Sub-Clause	Paragraph/ Figure/Table	Type of Comment (General/Editorial/Technical)	Comments	Proposed Change
1	Bajaj Electricals Limited	IS 302-2-21/IEC 60335-2-21	22	Paragraph	Technical	Vacuum impulse test clause needs to be added	Clause of 22.111 of Indian Standard should be followed
2	Bajaj Electricals Limited	IS 302-2-21/IEC 60335-2-21	24.102.2	Figure	Technical	Position of thermocouples for water containers needs to be added	Figure 102B of Indian standards needs to be added for reference purpose

Annex-11

Date:	Document No.
24.04.2023	Doc no ETD 32 (22312)WC

Sl. No.	Name of the Organization	Name/number of part/section of draft NEC	Clause/ Sub-Clause	Paragraph/ Figure/Table	Type of Comment (General/Editorial/Technical)	Comments	Proposed Change
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1	Bajaj Electricals Limited	IS 302-2-23/IEC 60335-2-23	CL-10	PARA-1	Technical	If the power input varies throughout the operating cycle, the power input is determined as the mean value of the power input occurring during a representative period	It can be measured either by AMV method or by energy meter method. (i.e., If the input varies considerably during the operation, the energy consumed is measured by means of an energy meter and the mean value of the input is determined for the representative period.)
2	Bajaj Electricals Limited	IS 302-2-23/IEC 60335-2-23	CL.- 19.102	PARA- 3	Technical	It cannot operate for 30 min with inlet blocked conditions	It should be till thermal cut-out operate

Annex-12

Date	Document No.
25-04-2023	Doc no ETD 32 (22193)WC

Sl. No.	Name of the Organization	Name/number of part/section of draft NEC	Clause / Sub-Clause	Paragraph/ Figure/Table	Type of Comment (General/Editorial/Technical)	Comments	Proposed Change
1	Bajaj Electricals Limited	IS 302-2-25/IEC 60335-2-25	22.119.1	-	Technical	Need to add note about splinters	Splinter details shall be mentioned whether to consider or not as per the reference standard (IS 10322 Part 5 Sec 3 Cl 7.5

							Para 4)
2	Bajaj Electricals Limited	IS 302-2-25/IEC 60335-2-25	22.119.1	Note	Technical	Plane pieces of curved Glass will not be similar to the final Curved Glass.	Curved glass shall be non-applicable as per this clause

Annex-13

Date	Document No.
19-04-2023	Doc no ETD 32 (22208) WC

Sl. No.	Name of the Organization	Name/number of part/section of draft NEC	Clause / Sub-Clause	Paragraph/ Figure/Table	Type of Comment (General/Editorial/Technical)	Comments	Proposed Change
1	Bajaj Electricals Limited	IS 302-2-30/IEC 60335-2-30	7.1	3 rd Paragraph	Technical	heaters for mounting under benches category will majorly fall under commercial use	Need to remove all the clause related to heaters for mounting under benches
2	Bajaj Electricals Limited	IS 302-2-30/IEC 60335-2-30	11.8	2 nd Paragraph	Technical	Testing timeline should be defined for better test performance	In Table 3, stationary heaters are considered liable to be operated continuously for long Periods until the product reaches steady conditions. Yellow highlighted part needs to be added
3	Bajaj Electricals Limited	IS 302-2-30/IEC 60335-2-30	19.101	3 rd Paragraph	Technical	Pressure measuring testing methodology for Liquid filled radiators is missing in standard in order to have similar results across Industry	Test methodology for pressure measurement in liquid filled Radiators to be mentioned in standard
4	Bajaj Electricals Limited	IS 302-2-30/IEC 60335-2-30	19.113	3 rd Paragraph	Technical	Test methodology to record the longest time is specified for non-self resetting thermal cutout.	Test methodology to record the longest time to be mention for self resetting thermal cutout in standard

						Heaters are provided with self resetting thermal cutout	
5	Bajaj Electricals Limited	IS 302-2-30/IEC 60335-2-30	21.1	2 nd Paragraph	Technical	Tolerance needs to be added for the impact energy of the blows applied to the panel	0.5J tolerance to be added for impact energy of the blows applied to the panel
6	Bajaj Electricals Limited	IS 302-2-30/IEC 60335-2-30	21.104	3 rd Paragraph	Technical	Portable fan heaters lacks switch off provision for Fans	Please guide with testing methodology to be performed in absence of switch-Off provision of fans
7	Bajaj Electricals Limited	IS 302-2-30/IEC 60335-2-30	30.101	1 st Paragraph	Technical	Needle flame test is mentioned for metal enclosure	Current standard shall be followed where needle flame test is conducted for non-metallic enclosure

Annex-14

Date	Document No.
25-04-2023	Doc no ETD 32 (22301)WC

Sl. No.	Name of the Organization	Name/number of part/section of draft NEC	Clause / Sub-Clause	Paragraph/ Figure/Table	Type of Comment (General/Editorial/Technical)	Comments	Proposed Change
1	Bajaj Electricals Limited	IS 302-2-35/IEC 60335-2-35	5.7	1 st Paragraph	Technical	As per Indian conditions, average inlet water temperature is 25 deg C in major areas	Existing standard should be followed where inlet water temperature should be 25 deg C instead of 15 deg C

ANNEX-15

CREATING SUPPORT STRUCTURES



Process Reforms in Standardization Activity of BIS

Bureau of Indian Standards

WHY REFORM?

Areas for improvement

- Identification of New Areas for Standardization
- Creating Support Structures
- Stakeholder Management
- Committee Management Strategy
- Enhancing International Footprint
- Digital Transformation
- Standards Promotion

IDENTIFICATION OF NEW AREAS FOR STANDARDIZATION

- Standards National Action Plan (SNAP) 2022-27
- Annual Programme for Standardization
 - For Central Ministries and Departments
 - State Governments
 - Industry Associations
- Creation of Standardization Cells
- Interaction with the Faculty of Prominent Technical Institutes
- Subscription of all important Scientific Journals and Magazines

STAKEHOLDER MANAGEMENT

- Annual Strategic Roadmap document, monitoring the progress and ensuring timely reviews.
- Identifying various stakeholder communities, sharing current and future strategic directions in standardization, encouraging participation, promoting synergy and harmonious development of standards between various bodies through interactions.
- Focused outreach activities with the leaderships of specific groups like industry, professional bodies, scientific and research groups, policy makers and regulators, innovators and startups, etc where relevant.
- Coordinating with Standardization Cells and their capacity building.
- Coordinating activities connected to collaboration with other national level SDOs under One nation One Standard Scheme.

COMMITTEE MANAGEMENT STRATEGY

- Standardization as a whole-organization activity, ending the compartmentalized approach.
- Focus on creation of a larger pool of experts.
- All Branch Offices to function as outposts of Standardization.
- Focus on Institutionalization of the participation of Civil Society Groups.
- Manak Manthan – a platform for the formal launch of new standards and deliberations on revisions, amendments and Wide Circulation Drafts.
- Half-Yearly Standards Conclaves by Branch Offices

COMMITTEE MANAGEMENT STRATEGY

- ▶ Ensuring adequate representation and expertise in Sectional Committees.
- ▶ Ensuring regular attendance in Sectional Committee meetings.
- ▶ Ensuring frequent meeting of Sectional Committees and timely communication with members through Standardization Portal.
- ▶ Keeping track of progress of the work of standards formulation through stage wise timelines and provision of monitoring progress through Standardisation Portal.
- ▶ Review of standards through Review Module in Standardization Portal following Action Research Based Approach.
- ▶ Mandatory submission of proposal for taking up formulation or revision of a standard through Standardization Portal with adequate justification

ENHANCING INTERNATIONAL FOOTPRINT

- ▶ Founder member of International Organization for Standardization (ISO).
- ▶ Member of Apex Governance Body i.e. ISO Council from 01 January 2022 to 31 December 2024 and ISO Council Standing Committee on Strategy & Policy.
- ▶ Member of Apex Governance Body for technical matters i.e. Technical Management Board of ISO from 01 January 2023 to 31 December 2025.
- ▶ Member of Standards Management Board of IEC since 2015, further elected from 01 January 2021 to 31 December 2023.
- ▶ . 32 MoUs and 09 BCAs
- ▶ Member of IEC Market Strategy Board from March 2022 to March 2024

ENHANCING INTERNATIONAL FOOTPRINT

- ▶ Secretariats for 03 Technical Committees and 08 Subcommittees of ISO.
- ▶ Leading SyC LVDC “Low Voltage Direct Current and Low Voltage Direct Current for Electricity Access” of IEC.
- ▶ Actively involved in standardization under regional and multilateral platforms such as South Asian Regional Standards Organization (SARSO), Pacific Area Standards Congress (PASC), BRICS, IBSA, etc.
- ▶ Chair of the Technical Management Board and of the Board for Conformity Assessment (BCA) of SARSO.
- ▶ Nominated convenors for 23 working groups of ISO and 12 working groups/system evaluation groups of IEC.

ENHANCING INTERNATIONAL FOOTPRINT

- ▶ Proposal sent for hosting ISO General Assembly meeting in 2025 and IEC General Assembly meeting in 2027.
- ▶ Next plenary of COPOLCO to be held at New Delhi in May 2023.
- ▶ Study tour of 19 BIS Scientific Officers to CEN-CENELEC, EFTA and AFNOR organized. Group of 4 Senior Officers also visited Standards Australia.
- ▶ Action plan for Indo-German working group finalized, and visit by German and Indian delegations to happen this year.
- ▶ Review of ISO/IEC Technical Committees for enhancing P Member status.
- ▶ Identification of indigenous standards to be proposed as new subjects at ISO/IEC level

DIGITAL TRANSFORMATION

- Structuring and framing the specifications of a revamped Standards Portal, future improvements in portal and in functioning of the portal on day to day basis.
- Generation of various reports for monitoring standards development activities.
- Review and undertake improvements in standardization processes including of project management and process KPIs.
- Restructuring of committees and review of committee compositions.
- Organize maintenance of all databases pertaining standardization.
- Monitor the standardization activities including that of publication of standards.

STANDARDS PROMOTION

Standards Club:

- 4200 new standards club formed since 1 April 2022.
- Residential training for mentors from each of these institutions.
- More than 1 lakh students enrolled.
- Student centric activities relating to standards and quality conducted with the help of mentors.
- Learning science via Standards taken up to popularize Indian Standards and improve the quality of science education
- 51 lesson plans under Learning science via Standards developed.
- A film on Orientation program for Standards Club
- Online Exchange Forum under development.



STANDARDS PROMOTION

- ▶ District Level Officers (DLO) sensitized on BIS activities and Indian Standards.
- ▶ Out of 766 districts , Sensitization programme in 491 districts organized.
- ▶ Focus on products under compulsory certification.
- ▶ To be followed up with Sensitization programmes for Sub-district level officials.
- ▶ Training programmes for State Government organizations and utilities.
- ▶ Webinar with State Consumer Affairs Secretaries and District Collectors.
- ▶ Quality Connect Programme organized on World Standards Day and BIS Foundation day involving 25,000 youth volunteers covering more than 5 lakh houses.

THANK YOU