



TEST REPORT
IEC 60335-2-8
Safety of household and similar electrical appliances
Part II : particular requirements for shavers, hair clippers and similar appliances

Report Number : NBES170200047803-M1
Date of issue..... : 2019-05-17
Total number of pages..... : 7

Applicant's name : Wenzhou Kairui Electrical Appliance Co., Ltd.
Address : 12 Huanqiu Road, Lucheng Industrial, Shuangyu, Wenzhou,
325000, Zhejiang, China

Test specification:

Standard : EN 60335-2-8:2015 + A1:2016
EN 60335-1:2012 + A11: 2014 + A13: 2017
EN 62233:2008
Test procedure : CB Scheme
Non-standard test method.....: N/A

Test Report Form No...... : IEC60335_2_8G
Test Report Form(s) Originator : Dekra Certification B.V.
Master TRF : Dated 2013-05

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This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

Test item description	: Hair Clipper
Trade Mark	: None
Manufacturer	: Same as applicant
Model/Type reference	: HC-001, HC-002, HC-005, HC-006, HC-008, HC-2011
Ratings	: Hair Clipper: 3 V d.c.; 3 W; Battery voltage: 2x1,2 V d.c. Adaptor for HC-001, HC-002, HC-006, HC-008, HC-2011 (KHG030030D-2, KHB030030D-2): Input: 230 V - 240 V; 50 Hz; Output: 3 V d.c.; 300 mA; Class II / (KHG030015D-2): Input: 230 V - 240 V; 50 Hz; Output: 3 V d.c.; 150 mA; Class II Adaptor for all models (LY045-030-0600E, LY045-030-0600B): Input: 100 V - 240 V; 50 Hz / 60 Hz; 0,2 A max; Output: 3 V d.c.; 600 mA; Class II

Testing procedure and testing location:		
<input checked="" type="checkbox"/>	Testing Laboratory:	SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch
Testing location/ address..... :		No.1177, Lingyun Road, Hi-Tech Zone, Ningbo, Zhejiang, China
<input type="checkbox"/>	Associated Testing Laboratory:	N/A
Testing location/ address..... :		
Tested by (name + signature)		Daren Ding, PE
Approved by (name + signature)		Gloria Feng, Reviewer
<input type="checkbox"/>	Testing procedure: TMP	N/A
Testing location/ address..... :		
Tested by (name + signature)		
Approved by (name + signature)		
<input type="checkbox"/>	Testing procedure: WMT	N/A
Testing location/ address..... :		
Tested by (name + signature)		
Witnessed by (name + signature)		
Approved by (name + signature)		
<input type="checkbox"/>	Testing procedure: SMT	N/A
Testing location/ address..... :		
Tested by (name + signature)		
Approved by (name + signature)		
Supervised by (name + signature)...		

<p>List of Attachments (including a total number of pages in each attachment):</p> <p>1. Annex I – European group differences and national differences – attachment 2 pages</p>	
<p>Summary of testing:</p>	
<p>Tests performed (name of test and test clause):</p> <p>The tested samples comply with the requirements of the test specification.</p> <p>EN 60335-2-8:2015 + A1:2016 EN 60335-1:2012 + A11: 2014 + A13: 2017 EN 62233:2008</p> <p>After review, no additional tests were considered to be necessary.</p>	<p>Testing location:</p> <p>SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch No.1177, Lingyun Road, Hi-Tech Zone, Ningbo, Zhejiang, China</p>
<p>Summary of compliance with National Differences:</p> <p>The requirements of national differences of EU Group were taken into account.</p> <p>The product fulfils the requirements of</p> <p>EN 60335-2-8:2015 + A1:2016 EN 60335-1:2012 + A11: 2014 + A13: 2017 EN 62233:2008</p>	
<p>Copy of marking plate:</p> <p>Copy of marking plate were not changed.</p>	

Test item particulars	Hair Clipper
Classification of installation and use	Hand-held appliance
Supply Connection	Plug-in power adaptor
Possible test case verdicts:	
- test case does not apply to the test object.....	N/A
- test object does meet the requirement.....	P (Pass)
- test object does not meet the requirement.....	F (Fail)
Testing	
Date of receipt of test item	2019-05-08
Date (s) of performance of tests	2019-05-08 to 2019-05-17
General remarks:	
<p>"(See Annex #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.</p> <p>Throughout this report a <input checked="" type="checkbox"/> comma / <input type="checkbox"/> point is used as the decimal separator. This document is issued by the Company subject to its General Conditions of Service, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.</p> <p>Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 1 months only.</p>	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC60335-2-8G:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided.....	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies) : Same as applicant.	
General product information:	
The hair clippers are for household and indoor use only. Hair clippers are supplied with the detachable power supply (KHG030030D-2, KHB030030D-2, KHG030015D-2, LY045-030-0600B or LY045-030-0600E). Six models are covered in test report. They share same electrical circuit connection and the enclosure material, and the differences between the models are listed in the following table:	

Model	Adaptor	Motor	Appearance	Circuit diagram	Battery	Supplied from the supply mains through the battery charger
HC-001	KHG030030D-2, KHG030015D-2, KHB030030D-2, LY045-030-0600E, LY045-030-0600B	Jieshilin FF-180PA-2955V or Changlong FF-180PA-2952V	HC-001	HC-001	Liaoning WKF AA, Ni-Mh, 600 mAh	Yes
HC-002			Similar as model HC-001			
HC-2011						
HC-005	LY045-030-0600E, LY045-030-0600B	Jieshilin FF-180PA-2757V or Changlong FF-180PA-2952V	HC-005	HC-005		No
HC-006	KHG030030D-2, KHG030015D-2, KHB030030D-2, LY045-030-0600E, LY045-030-0600B	Changlong FF-141PA-3148V or Changlong FF-180PA-2952V	HC-006	HC-006	Liaoning WKF 2/3AA, Ni-Mh, 600 mAh	No
HC-008		Jieshilin FF-180PA-2955V or Changlong FF-180PA-2952V	HC-008	HC-001	Liaoning WKF AAA, Ni-Mh, 600 mAh	Yes

Modification 1 Report NBES170200047802-M1:

The original test report Ref. No.: NBES170200047801 dated 2017-04-07 was modified on 2017-11-24 to include the following changes and additions, which were considered technical modifications:

1. Alternative battery for these models. Refer to below table for details.

Model	Battery
HC-001, HC-002, HC-2011, HC-005	Zouping Mingbo Power Supply Co., Ltd. AA, Ni-Mh 600 mAh
HC-006	Zouping Mingbo Power Supply Co., Ltd. 2/3AA, Ni-Mh 600mAh
HC-008	Zouping Mingbo Power Supply Co., Ltd. AAA, Ni-Mh 600mAh

2. The requirements of EN 60335-2-8:2015 and EN 60335-1:2012 + AC:2014 + A11:2014 were evaluated.

3. Correct the internal wire model from '06V' to '06(RV)'.

4. Update the marking plate of clipper.

5. Correct the photo of open view of HC-2011

Modification 2 Report NBES170200047803-M1:

The original test report Ref. No.: NBES170200047801 dated 2017-04-07 and NBES170200047802-M1 dated

on 2017-11-24 was modified on 2019-05-17 to include the following changes and additions, which were considered technical modifications:

1. The requirement of EN 60335-2-8:2015/A1:2016 and EN 60335-1:2012/A13:2017 were evaluated in this report.

<End of report>

IEC60335_2_8G – Annex I			
Clause	Requirement - Test	Result - Remark	Verdict

<p>ATTACHMENT TO TEST REPORT IEC 60335-2-8 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES</p> <p>Household and similar electrical appliances – Safety – Part 2: particular requirements for shavers, hair clippers and similar appliances</p>	
Differences according to:	EN 60335-2-8:2015 in conjunction with EN 60335-1:2012 + AC:2014 + A11:2014 EN 62233:2008
Attachment Form No.:	EU_GD_IEC60335_2_8G
Attachment Originator:	DEKRA Certification B.V.
Master Attachment:	2017-02
<p>Copyright © 2017 IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE System). All rights reserved. Appendix I – The requirements of EN 60335-1:2012/A13:2017 Appendix II – The requirements of EN 60335-2-8:2015/A1:2016</p>	

IEC60335_2_8G - Annex I			
Clause	Requirement - Test	Result - Remark	Verdict

Appendix I – The requirements of EN 60335-1:2012/A13:2017			
ZC	ANNEX ZC (NORMATIVE) NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR CORRESPONDING EUROPEAN PUBLICATIONS		—
	A list of documents referred to in the text of this standard in such a way that some or all of their content constitutes requirements of this document		P
ZZA	ANNEX ZZA (INFORMATIVE) RELATIONSHIP BETWEEN THIS EUROPEAN STANDARD AND THE SAFETY OBJECTIVES OF DIRECTIVE 2014/35/EU [2014 OJ L96] AIMED TO BE COVERED		—
	This standard provides one means of conforming to safety objectives of Directive 2014/35/EU		P
	When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZA.1 confers a presumption of conformity with the safety objectives of that Directive and associated EFTA regulations		P
	Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the safety objectives		P
ZZB	ANNEX ZZB (INFORMATIVE) RELATIONSHIP BETWEEN THIS EUROPEAN STANDARD AND THE ESSENTIAL REQUIREMENTS OF DIRECTIVE 2006/42/EC AIMED TO BE COVERED		—
	This standard provides one means of conforming to essential requirements of EU Directive 2006/42/EC		N/A
	When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZB.1 confers a presumption of conformity with the essential requirements of that Directive and associated EFTA regulations		N/A
	Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the essential health and safety requirements		N/A

Appendix II – The requirements of EN 60335-2-8:2015/A1:2016			
25.7	Supply cords shall have a length of at least 1,7 m.		N/A
	This requirement is not applicable to Supply cords on battery charging units.		P

<End of Annex I>