

Compliance (Summary) Report

Applicant: Yuyao Gelong Electric Co., Ltd.
Shangxinwu Village, Simen Town, Yuyao, 315480 Zhejiang, China

Manufacturer: Same as applicant

Test laboratory / address: SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch
1-5/F West No. 4 Building, Lingyun Industry Park, No. 1177 Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, Zhejiang, China

Test specifications / Test standards : EN 60335-2-8: 2003 + A1: 2005 + A2: 2008
EN 60335-1: 2012
EN 62233: 2008

Test item description: Hair Clipper(Electric Hair Clipper)

Trade mark: None

Model/Type reference: 009, 606, 607, 608, 609, 809, 908, 919, 989, 2200, SINBO SHC4348

Ratings: Hair clipper: 3 V d.c.; 3 W;
009, 606, 607, 608, 809, 908, 919, 2200, SINBO SHC4348: battery voltage: 1,2 V d.c.
609, 989: battery voltage: 2,4 V d.c.
Adaptor(FYB-A00300200): input: 230 V; 50 Hz / 60 Hz; output: 3 V d.c.; 200 mA
Adaptor(FYB-A030D0200): input: 100 V - 240 V; 50 Hz; output: 3 V d.c.; 200 mA

Test result : In the opinion of SGS-CSTC the presented appliance was found to be in compliance with the test specification as indicated in the details on the following pages.

Remark : None



Gloria Feng
Reviewer
E & E Safety Laboratory

Sagan Sheng
Project Engineer

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Summary of testing:

The provided samples were tested and found to meet the below standards:

EN 60335-2-8: 2003 + A1: 2005 + A2: 2008

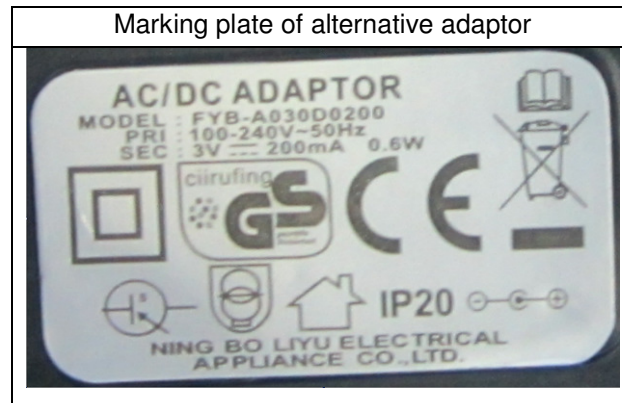
EN 60335-1: 2012

EN 62233: 2008

After review, tests of clause 11, 13, 19.B.101 of Annex B will be performed on model 989 and 919.

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



Other marking plates were not changed.

| | |
|--|--------------------------------------|
| Test item particulars | Hair Clipper(Electric Hair Clipper) |
| Classification of installation and use | Hand-held appliance |
| Supply Connection | Direct plug-in power supply |
| | : |
| 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 | 2013-10-21 |
| Date (s) of performance of tests | 2013-10-21 to 2013-11-25 |
| General product information: | |
| <p>Hair clipper for household and indoor use only. There were nine models in this test report, and they used same power supply, battery, similar electric circuit, different appearance. 1,2 V motor and 1x1,2 V battery for 009, 606, 607, 608, 809, 908, 919, 2200; 2,4 V motor and 2x1,2 V battery for 609, 989. And only the rechargeable battery of 919 can be replaced.</p> <p>Hair clippers of all models were class III construction and powered by external power supply connected with charging base. Hair clippers of 989, 908, 2200, 009 also can powered by the external power supply without charging base. Adaptor(FYB-A00300200): input: 230 V; 50 Hz / 60 Hz; output: 3 V d.c.; 200 mA; Class II.</p> | |
| Modification1 Report: NBES130300016101-M1 | |
| <p>The original test reports Ref. No.: NBES130300016101, dated 2013-03-20 was modified on 2013-07-08 to include the following changes and additions, which was considered technical modifications:</p> <p>1. A new model SINBO SHC4348 was added in this report, which was same as model 608 except for model name.</p> | |
| Modification 2 Report NBES130300016101-M2: | |
| <p>The original test report No. NBES130300016101, dated 2013-03-20, report No. NBES130300016101-M1, dated 2013-07-08 were modified on 2013-11-25 to include the following changes and additions, which were considered technical modifications:</p> <p>1. Alternative adaptor (Ningbo Liyu: FYB-A030D0200) which was certified and used within its specified ratings was listed. See updated table 24.1.</p> | |

Test Results:

| EN 60335-1 and EN 60335-2-8 | | | |
|-----------------------------|--|-------------------------------------|---------|
| Clause | | Remarks | Verdict |
| 11 | Heating | | P |
| 13 | Leakage current and electric strength at operating temperature | | P |
| Annex B | Appliances powered by rechargeable batteries | Only test of 19.B.101 was conducted | P |

ANNEX I: Data Table

| | | | |
|---|--|------------------------|---------------|
| 11.8 (1) | TABLE: Heating test, thermocouples (989) | | P |
| | Test voltage (V) : | 1,06x240=254,4 V | — |
| | Ambient (°C) : | T1=23,1 °C, T2=23,4 °C | — |
| Thermocouple locations | | dT (K) | Max. dT (K) |
| Internal wire | | 5,6 | 50 |
| Ambient of power switch | | 11,4 | For reference |
| PCB | | 13,7 | 120 |
| Enclosure (inside) | | 16,8 | For reference |
| Enclosure (outside) | | 4,3 | 60 |
| Charging base enclosure | | 2,2 | 60 |
| Battery surface | | 20,2 | For reference |
| Handle surface | | 3,7 | 50 |
| Cutting teeth | | 1,3 | 30 |
| Button of power switch | | 3,4 | 60 |
| Adaptor surface | | 1,6 | 60 |
| Test corner | | 1,2 | 65 |
| Remark: 1) Battery charged for 24 h, the battery was being initially discharged to such an extent that the appliance cannot operate. 2) Motor did not work. | | | |

| | | | |
|-------------------------|--|------------------------|---------------|
| 11.8 (2) | TABLE: Heating test, thermocouples (919) | | P |
| | Test voltage (V) : | 1,06x240=254,4 V | — |
| | Ambient (°C) : | T1=22,7 °C, T2=23,0 °C | — |
| Thermocouple locations | | dT (K) | Max. dT (K) |
| Internal wire | | 5,6 | 50 |
| Ambient of power switch | | 11,5 | For reference |
| PCB | | 10,7 | 120 |
| Enclosure (inside) | | 11,2 | For reference |
| Enclosure (outside) | | 4,2 | 60 |
| Charging base enclosure | | 3,2 | 60 |
| Battery surface | | 18,7 | For reference |
| Handle surface | | 3,1 | 50 |
| Cutting teeth | | 2,4 | 30 |
| Button of power switch | | 2,6 | 60 |
| Adaptor surface | | 2,3 | 60 |

| | | |
|---|-----|----|
| Test corner | 2,1 | 65 |
| Remark: 1) Battery charged for 24 h, the battery was being initially discharged to such an extent that the appliance cannot operate. 2) Motor did not work. | | |

| | | | |
|---|---|------------------|---------------------|
| 13.2 | TABLE: Leakage current (989) | | P |
| | Heating appliances: 1.15 x rated input | 1,06x240=254,4 V | — |
| | Motor-operated and combined appliances: 1.06 x rated voltage | — | — |
| Leakage current between | | I (mA) | Max. allowed I (mA) |
| L/N of adaptor and accessible parts | | 0,01 | 0,35 peak |
| Pins of hair clipper and accessible parts | | 0,01 | 0,7 peak |

| | | | |
|---|---|------------------|---------------------|
| 13.2 | TABLE: Leakage current (919) | | P |
| | Heating appliances: 1.15 x rated input | 1,06x240=254,4 V | — |
| | Motor-operated and combined appliances: 1.06 x rated voltage | — | — |
| Leakage current between | | I (mA) | Max. allowed I (mA) |
| L/N of adaptor and accessible parts | | 0,01 | 0,35 peak |
| Pins of hair clipper and accessible parts | | 0,01 | 0,7 peak |

| | | | |
|---|---------------------------------------|-------------|--------------------|
| 13.3 | TABLE: Electric strength (989) | | P |
| Test voltage applied between: | | Voltage (V) | Breakdown (Yes/No) |
| L/N of adaptor and accessible parts | | 3000 | No |
| Pins of hair clipper and accessible parts | | 500 | No |

| | | | |
|---|---------------------------------------|-------------|--------------------|
| 13.3 | TABLE: Electric strength (919) | | P |
| Test voltage applied between: | | Voltage (V) | Breakdown (Yes/No) |
| L/N of adaptor and accessible parts | | 3000 | No |
| Pins of hair clipper and accessible parts | | 500 | No |

| | | | |
|-----------------------------|---|-------------------------------|----------|
| 19.13 | TABLE: Abnormal operation, running overload(989) | | P |
| at .times rated power input | | | |
| Room temperature | t1: | | 22,7 °C |
| | t2: | | 22,5 °C |
| Parts measured | Limit temp. rise(K) | Measured temperature rise (K) | |
| | | 19.101/Annex B | |
| Battery surface | For reference | 25,7 | |

| | | |
|---|--------|-----|
| Motor housing | 150 °C | -- |
| Test corner | 150 | 2,2 |
| Remark: 1. 19.101 of Annex B - Supplied at rated voltage for 168 h, the battery being continually charged during this period | | |

| | | | |
|---|---|-------------------------------|---------|
| 19.13 | TABLE: Abnormal operation, running overload(919) | | P |
| at .times rated power input | | | |
| Room temperature | t1: | | 22,0 °C |
| | t2: | | 21,3 °C |
| Parts measured | Limit temp. rise(K) | Measured temperature rise (K) | |
| | | 19.101/Annex B | |
| Battery surface | For reference | 21,6 | |
| Motor housing | 150 °C | -- | |
| Test corner | 150 | 2,9 | |
| Remark: 1. 19.101 of Annex B - Supplied at rated voltage for 168 h, the battery being continually charged during this period | | | |

| 24.1 | TABLE: Components | | | | P |
|---|----------------------------------|---------------|--|-----------------------------|---------------------------|
| Object / part No. | Manufacturer/ trademark | Type / model | Technical data | Standard | Mark(s) of conformity |
| Adaptor | Ningbo Liyu Electrical Co., Ltd. | FYB-A030D0200 | input: 100-240 V~, 50 Hz; output: 3 V d.c., 200 mA | EN 61558-2-16 EN 61558-1 | Eurofins* (S3M21204-0001) |
| ¹⁾ An asterisk indicates a mark which assures the agreed level of surveillance | | | | | |

ANNEX II: Photo documentation

Details of: Adaptor(FYB-A030D0200)



Details of: Adaptor(FYB-A030D0200)



Details of: Adaptor(FYB-A030D0200)

View:

general

front

rear

right

left

top

bottom



Details of: Adaptor(FYB-A030D0200)

View:

general

front

rear

right

left

top

bottom



Details of: Adaptor(FYB-A030D0200).....



--- End of Report ---