

Applicant:

| Report No: SZES171100487501 Date: 2017-12-12 |
|---|
| Shenzhen Dipinle Technology Co., Ltd. |
| 2/F., Block 2, Guanfeng Industrial Area, Jiuwei Village, Xixiang, Bao'an, Shenzhen, 518126 Guangdong, China |
| STOTZO Gualiguolig, China |

| Manufacturer: | Same as applicant |
|---------------|--------------------|
| manadatori | ounio do applicant |

| Test object / Model: | Wall Charger |
|----------------------|---|
| | CA-29, CA-29A, CA-29T, CA-27A Plus, CA-27T Plus |

| Test specifications / Test standard: | EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 + A2: 2013 |
|---|--|
| Purpose of examination: | Test according to the test specification. |
| | Inspection of the compliance with protective objectives of the following EC Directives: - 2014/35/EU |

Test result: In the opinion of SGS-CSTC the presented appliance was found to be in compliance with the test specification and standards.

Remark: None



legan Xve

Megan Xue Project Engineer

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1. Function / Description:

- 1. The apparatus is Class II direct plug-in switching mode power supply for IT and similar electrical appliances.
- 2. External enclosure is of plastic material, the enclosure secured by ultrasonic welding. The plastic enclosure is surrounded by metal enclosure. For indoor use only.

Model difference: All models are identical except for model name.

2. Ratings:

Model:

Rated Input (AC): Rated Output (DC): Protection Class: Protection Against Moisture: Construction: Supply connection: Operation mode: Weight: CA-29, CA-29A, CA-29T, CA-27A Plus, CA-27T Plus

100 V - 240 V; 50 Hz / 60 Hz; 0,5 A max. 5 V, 3 A; or 9 V, 2 A; or 12 V, 1,5 A Class II IPX0 Direct plug-in type Plug Continuous 0,074 kg

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3. Test:

Possible test case verdicts:

- test case does not apply to the test object:
- test object does meet the requirement:
- test object does not meet the requirement:

N/A (Not Applicable) P (Pass) F (Fail)

The tests were done in the Electrical Safety Laboratory of SGS-CSTC in Shenzhen. Test item was received on 2017-12-04. Tests were performed from 2017-12-04 to 2017-12-09.

Unless otherwise specified, all tests carried out on model CA-29 were considered representative.

Heating test (4.5): Tma = 25 °C (declared by manufacturer) Tamb = 21,7 °C - 23,0 °C Input voltage range: 90 V - 264 V (+/-10% according to manufacturer) Output: 5 V, 3 A; 9 V, 2 A; 12 V, 1,5 A (Electronic load used) T-type thermocouple used for temperature measurement.

The EU plug portion was tested according to EN 50075: 1990, detailed test result see attachment A.

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4. Marking plate:

UONIPOW[®]

Wall Charger Model : CA-29 Input:AC 100-240V~50/60Hz 0.5A Output:5V=3A/9V=2A/12V=1.5A

Remark:

1. The marking plates for other models are of the same pattern;

2. As declared by the applicant, the importer (and manufacturer, if it is different)'s name, registered trade name or registered trade mark and the postal address will be marked on the products before being place on the market. The contact details shall be in a language easily understood by end-users and market surveillance authorities.

3. Marking on the packaging or in a document accompanying the electrical equipment is only acceptable if it is not possible to place such markings on the product.

4. The Height of CE logo shall not be less than 5 mm; Height of WEEE logo shall not be less than 7 mm.

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5. Test result:

| CLA | USE | REMARKS | Verdict |
|-------|---|--|---------|
| 1.3.Z | 1 Exposure to excessive sound pressure | | N/A |
| 1.5 | Components | | Р |
| 1.6 | Power interface | | Р |
| 1.7 | Markings and instructions | See marking plate | Р |
| 2.1 | Protection from electric shock and energy hazards | Access to SELV and LCC circuit only | Р |
| 2.2 | SELV circuits | For type C output | Р |
| 2.3 | TNV circuits | | N/A |
| 2.4 | Limited current circuits | For CY1: measured max. 0,352 mA peak (limit 0,7 mA peak) | Р |
| | | Normal operation (overload at rated output of 5VDC 3 A): Uoc = 5,0 V d.c, Isc =3,3 A, S = 15,3 VA | |
| | | Normal operation (overload at rated output of 9VDC 2 A): Uoc = 8,96V d.c, Isc =3,3 A, S = 19,6 VA | |
| 2.5 | Limited power sources | Normal operation (overload at rated output of 12VDC1,5 A): Uoc = 11,95V d.c, Isc =2,2 A, $S = 20,7 VA$ | Р |
| | | Signal fault (short circuit C7): Uoc = $0 \vee d.c.$ Isc = $0 \wedge A$, S = $0 \vee A$ | |
| | | Signal fault (short circuit ZD1): Uoc = $0 \vee d.c$, Isc = $0 \wedge A$, S = $0 \vee A$ | |
| 2.6 | Provisions for earthing and bonding | | N/A |
| 2.7 | Overcurrent and earth fault protection in primary circuits | | Р |
| 2.8 | Safety interlocks | | N/A |
| 2.9 | Electrical insulation | 25 °C, 95 % Rh, 48 h | Р |
| 2.10 | Clearances, creepage distances and distances through insulation | See appended table | Р |
| 3.1 | General | | Р |

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| 3.2 | Connection to an a.c. mains supply or a d.c. mains supply | | Р |
|-----|--|---|-----|
| 3.3 | Wiring terminals for connection of external conductors | | N/A |
| 3.4 | Disconnection from the mains supply | | Р |
| 3.5 | Interconnection of equipment | SELV & LPS | Р |
| 4.1 | Stability | | N/A |
| 4.2 | Mechanical strength | 250N steady force test complied; Drop test (1m) complied; Mold-stress relief test complied | Ρ |
| 4.3 | Design and construction | | Р |
| 4.4 | Protection against hazardous moving parts | | N/A |
| 4.5 | Thermal requirement | See appended table | Р |
| 4.6 | Openings in enclosures | No openings | Р |
| 4.7 | Resistance to fire | See critical component table | Р |
| 5.1 | Touch current and protective conductor current | Measured max. 0,186 mA (limit 0,25 mA) | Р |
| 5.2 | Electric strength | See appended table | Р |
| 5.3 | Abnormal operating and fault conditions | See appended table | Р |
| 6.1 | Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment | | N/A |
| 6.2 | Protection of equipment users from overvoltages on telecommunication networks | | N/A |
| 6.3 | Protection of the telecommunication wiring system from overheating | | N/A |
| 7.1 | General | | N/A |
| 7.2 | Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment | | N/A |
| 7.3 | Protection of equipment users from overvoltages on the cable distribution system | | N/A |
| 7.4 | Insulation between primary circuits and | | N/A |

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| cable distribution systems | |
|--|-----|
| Annex B Motor tests under abnormal conditions | N/A |
| Annex C Transformers | Р |
| Annex L Normal load conditions for some types of electrical business | Р |
| Annex ZA Normative references to international publications with their corresponding European publications | N/A |
| Annex ZB Special national conditions | N/A |
| Annex ZC A-deviations | N/A |

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| 1.6.2 | TABLE: | electrical data | (in normal of | conditions) | | | Р |
|----------|--------------|------------------|---------------|-------------|-----------|------------------------------|-------------|
| fuse # | Irated (A) | U (V) | P (W) | I (A) | Ifuse (A) | condition/status | |
| Normal o | perated with | load at 5 V / 3 | 3 A | | | | |
| F1 | | 90 V / 50 Hz | 18,76 | 0,363 | 0,363 | Normal operated with V / 3 A | n load at 5 |
| F1 | | 90 V / 60 Hz | 18,74 | 0,367 | 0,367 | Ditto | |
| F1 | 0,5 | 100 V / 50 Hz | 18,65 | 0,339 | 0,339 | Ditto | |
| F1 | 0,5 | 100 V / 60 Hz | 18,63 | 0,337 | 0,337 | Ditto | |
| F1 | 0,5 | 240 V / 50 Hz | 18,46 | 0,170 | 0,170 | Ditto | |
| F1 | 0,5 | 240 V / 60 Hz | 18,47 | 0,180 | 0,180 | Ditto | |
| F1 | | 264 V / 50 Hz | 18,59 | 0,166 | 0,166 | Ditto | |
| F1 | | 264 V / 60 Hz | 18,60 | 0,173 | 0,173 | Ditto | |
| Normal o | perated with | load at 9 V / 2 | 2 A | • | 1 | | |
| F1 | | 90 V / 50 Hz | 21,43 | 0,413 | 0,413 | Normal operated with V / 2 A | n load at 9 |
| F1 | | 90 V / 60 Hz | 21,41 | 0,428 | 0,428 | Ditto | |
| F1 | 0,5 | 100 V / 50 Hz | 21,29 | 0,393 | 0,393 | Ditto | |
| F1 | 0,5 | 100 V / 60 Hz | 21,28 | 0,397 | 0,397 | Ditto | |
| F1 | 0,5 | 240 V / 50 Hz | 20,88 | 0,198 | 0,198 | Ditto | |
| F1 | 0,5 | 240 V / 60 Hz | 20,79 | 0,195 | 0,195 | Ditto | |
| F1 | | 264 V / 50 Hz | 20,82 | 0,171 | 0,171 | Ditto | |
| F1 | | 264 V / 60 Hz | 20,84 | 0,186 | 0,186 | Ditto | |
| Normal o | perated with | load at 12 V | ′ 1,5 A | • | | | |

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| fuse # | Irated (A) | U (V) | P (W) | I (A) | Ifuse (A) | condition/status |
|--------|------------|------------------|-------|-------|-----------|---|
| F1 | | 90 V / 50 Hz | 20,74 | 0,398 | 0,398 | Normal operated with load at 12 V / 1,5 A |
| F1 | | 90 V / 60 Hz | 20,73 | 0,416 | 0,416 | Ditto |
| F1 | 0,5 | 100 V / 50 Hz | 20,60 | 0,368 | 0,368 | Ditto |
| F1 | 0,5 | 100 V / 60 Hz | 20,56 | 0,384 | 0,384 | Ditto |
| F1 | 0,5 | 240 V / 50 Hz | 20,16 | 0,194 | 0,194 | Ditto |
| F1 | 0,5 | 240 V / 60 Hz | 20,15 | 0,191 | 0,191 | Ditto |
| F1 | | 264 V / 50 Hz | 20,25 | 0,166 | 0,166 | Ditto |
| F1 | | 264 V / 60 Hz | 20,23 | 0,180 | 0,180 | Ditto |

| 2.10.3 and TABLE: Clearance and creepage distance measurements 2.10.4 | | | | | | | |
|--|---------------|-----------------|---------------------|----------------|---------------------|----------------|--|
| Clearance (cl) and creepage distance (cr) at/of/between: | U peak (V) | U r.m.s. (V) | Required cl (mm) | cl (mm) | Required cr (mm) | cr (mm) | |
| Functional: | | | | | | | |
| Across Fuse F1 on PWB | <420 | <250 | 1,5 | 3,6 | 2,5 | 3,6 | |
| Across primary directly connected to mains before F1 | < 420 | < 250 | 1,5 | 2,5 | 2,5 | 2,5 | |
| Basic/supplementary: | | | | | | | |
| | | | | | | | |
| Reinforced: | | | | | | | |
| Primary circuit to accessible part of enclosure | <420 | <250 | 4,0 | >6,5 | 5,0 | >6,5 | |
| Primary circuit to secondary circuit on PWB | <420 | <250 | 4,0 | 6,8 | 5,0 | 6,8 | |
| Across Y-cap. (CY1) on PWB | <420 | <250 | 4,0 | 6,8 | 5,0 | 6,8 | |
| U1 input to output | 512 | 237 | 4,4 | See table 6 | 5,0 | See table 6 | |
| Input to output through U1 on PWB | 512 | 237 | 4,4 | >6,5 | 5,0 | >6,5 | |
| Primary winding / Ferrite core of T1 to secondary winding of T1 on PWB | 512 | 237 | 4,4 | 6,8 | 5,0 | 6,8 | |

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| Primary winding to secondary winding of transformer T1 body | 512 | 237 | 4,4 | >6,5 | 5,0 | >6,5 |
|---|------|------|-----|------|-----|------|
| Primary component C2 to Sec. Circuit (sec. pin of CY1) | <420 | <250 | 4,0 | 7,5 | 5,0 | 7,5 |

Supplementary information:

Ferrite core of transformer (T1) was considered as primary part; Secondary winding of transformer is triple insulating wire.

| 2.10.5 | TABLE: Distance through insulation measurements | | | | | | | | |
|--|---|---------------|--------------|------------------------|----------------------|-------------|--|--|--|
| Distance th | rough insulation (DTI) at/of: | U peak (V) | U rms (V) | Test voltage (V) | Required DTI (mm) | DTI (mm) | | | |
| Bobbin of T | ransformer T1 | 512 | 237 | 3000 | 0,4 | Min. 0,45 | | | |
| Insulation sheet | | <420 | <250 | 1500 | | | | | |
| Enclosure | | <420 | <250 | 3000 | 0,4 | Min. 1,5 | | | |
| One layer Insulation tape wrapping transformer | | 512 | 237 | 3000 | 2 layers | 3 layers | | | |
| Supplemen | tary information: | | | | | | | | |

| 4.5 | TABLE: Thermal requirements | | | | | | Р | |
|---|-------------------------------|------|---------------|----------------|------|-----|--------------------------------------|--|
| | | | utput: 5 A | Rated o VDC | | | | |
| | Supply voltage (V) | 90V | 264V | 90V | 264V | | | |
| | Ambient T _{min} (°C) | 22,4 | 22,6 | 21,7 | 22,3 | | — | |
| | Ambient T _{max} (°C) | 23,0 | 23,0 | 22,4 | 22,7 | | | |
| Maximum measured temperature T of part/at:: | | | Τ (| °C) | | | Allowed T _{max} (25°C | |
| Surface of | 80,3 | 77,0 | 70,9 | 59,8 | | 105 | | |
| Surface of | 81,6 | 80,1 | 72,1 | 64,0 | | 125 | | |
| Winding of | line filter (L2) | 79,8 | 70,5 | 67,9 | 53,7 | | 120 | |
| Winding of | transformer (Switch mode) T1 | 87,9 | 89,4 | 83,0 | 74,6 | | 110 | |
| Winding of | transformer (Switch mode) T1 | 80,9 | 80,5 | 76,8 | 68,0 | | 110 | |
| Ferrite core | e of transformer T1 | 82,2 | 80,7 | 66,5 | 60,0 | | Ref. | |
| PWB (DB1) | | 77,7 | 66,2 | 73,6 | 53,8 | - | 130 | |
| PWB (U1) | | 82,2 | 84,3 | 81,6 | 73,8 | | 130 | |
| PWB (Q1) | | 89,0 | 92,3 | 79,2 | 63,0 | | 130 | |
| Enclosure i | inside (side) | 73,1 | 74,3 | 59,4 | 54,0 | | Ref. | |

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| Enclosure inside (top) | | | 77, | ,0 | 73, | 6 | 50,7 | , | 46,5 | | Ref. |
|------------------------------------|---------------------|----------------|-----|----|------|---|-------|---|------|----------------------------------|----------------------|
| Metallic enclosure surface (Side) | | | 50, | ,2 | 50, | 5 | 44,7 | , | 41,8 | | 70 |
| Metallic enclosure surface (Top) | | | 48, | ,2 | 49, | 0 | 45,4 | ł | 41,6 | | 70 |
| Metallic enclosure surface (Front) | | | 59, | ,4 | 62, | 1 | 48,1 | | 44,4 | | 70 |
| Pin holder | | | 32, | ,2 | 31, | 8 | 30,9 |) | 29,1 | | Ref. |
| Supplementary information: | | | | | | | | | | | |
| Temperature T of winding: | t ₁ (°C) | R ₁ | (Ω) | t2 | (°C) | R | 2 (Ω) | Т | (°C) | Allowed T _{max} (°C) | Insulatio n class |
| | | | | | | | | | | | В |
| Supplementary information: | | | | | | | | | | | |

| 4.5 | TABLE: Thermal requirements | | | | Р | |
|---|---|--------------------|------------------|-----|---|---------------------------------------|
| | Test condition: | Rated o VDC, 1, | utput: 12 5 A | | | _ |
| | Supply voltage (V) | | 264V | | | |
| | Ambient T _{min} (°C): | 22,5 | 22,2 | | | _ |
| | Ambient T _{max} (°C): | 23,0 | 22,5 | | | |
| Maximum measured temperature T of part/at:: | | |) T | °C) | | Allowed T _{max} (25°C) |
| Surface of E-cap (C10) | | | 58,9 | | | 105 |
| Surface of Y-cap (CY1) | | 68,6 | 61,7 | | | 125 |
| Winding of line filter (L2) | | 65,6 | 52,8 | | | 120 |
| Winding | Winding of transformer (Switch mode) T1 | | 72,1 | | | 110 |
| Winding | of transformer (Switch mode) T1 | 73,0 | 65,8 | | | 110 |
| Ferrite c | ore of transformer T1 | 64,5 | 59,2 | | | Ref. |
| PWB (D | B1) | 71,3 | 53,4 | | | 130 |
| PWB (U | 1) | 77,6 | 72,4 | | | 130 |
| PWB (Q | 1) | 72,7 | 64,0 | | | 130 |
| Enclosu | e inside (side) | 57,1 | 52,6 | | | Ref. |
| Enclosu | re inside (top) | 49,3 | 45,0 | | | Ref. |
| Metallic enclosure surface (Side) | | 44,1 | 40,3 | | | 70 |
| Metallic | Metallic enclosure surface (Top) | | 40,5 | | | 70 |
| Metallic | enclosure surface (Front) | 45,7 | 42,2 | | | 70 |
| Pin hold | er | 30,8 | 28,9 | | | Ref. |

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| Supplementary information: | | | | | | | | |
|----------------------------|---------|--------|---------------------|--------|--------|----------------------------------|----------------------|--|
| Temperature T of winding: | t₁ (°C) | R1 (Ω) | t ₂ (°C) | R2 (Ω) | T (°C) | Allowed T _{max} (°C) | Insulatio n class | |
| | | | | | | | В | |
| Supplementary information: | | | | | | | | |

| 4.5.5 TABLE: ball pressure test of thermoplastic parts | | | | | |
|--|---|--------------------------|--|--------------------|--|
| | allowed impression diameter (mm): $\leq 2 \text{ mm}$ | | | | |
| part | | test temperature (°C) | | on diameter mm) | |
| Pin Bridge | | 125 | | 1,4 | |

| 5.2 | TABLE: electric strength tests, impulse tests and voltage surge tests | | | | | |
|--------------|---|---------------------------------|-----------------------|----|--|--|
| test voltage | applied between: | test voltage (V) a.c. / d.c. | breakdown Yes / No | | | |
| L and N with | h fuse opened | 1500 | 1500 No | | | |
| L/N of plug | and enclosure | 3000 | 3000 No | | | |
| L/N of plug | and output terminals | 3000 | 3000 | | | |
| One layers | of insulation tape wrapping T1 | 3000 | | No | | |
| Primary win | ding and secondary winding of T1 | 3000 | | No | | |
| supplement | ary information | | | | | |

| 5.3 | TABLE: fault condition tests | | | | |
|-----|---------------------------------------|--|---|--|--|
| | ambient temperature (°C): 21,2 – 22,3 | | | | |
| | model/type of power supply: | | | | |
| | manufacturer of power supply: | | _ | | |
| | rated markings of power supply: | | | | |

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| component No. | fault | test voltage (V) | test time | fuse No. | input/fuse cur- rent (A) | result |
|--------------------|----------|---------------------|------------|-------------|--|--|
| Output terminal | Overload | 90 V / 60 Hz | 3 h 42 min | F1 | $0,509 \rightarrow 0,508$ $\rightarrow 0,511 \rightarrow 0,367 \rightarrow 0,004$ | Output current 2,1 A for attaining steady conditions and max. power attained. When added to 5%, output power dropped to 19,55 W. When added output current to 3,2 A, got max. input power 25,6 W and attained steady conditions, then added 5% output current, output power dropped to12,21 W, and then added 5% output current, output changed to 0 W. No component damage, no hazard. Pn = 25,3 \rightarrow 25,4 \rightarrow 25,6 \rightarrow 17,4 \rightarrow 0,12 W lout = 2,1 \rightarrow 2,3 \rightarrow 3,2 \rightarrow 3,3 \rightarrow 0 A Winding temp. T1 = 97,4 °C |

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| component No. | fault | test voltage (V) | test time | fuse No. | input/fuse cur- rent (A) | result |
|--------------------|-------------|---------------------|------------|-------------|---|---|
| Output terminal | Overload | 264 V / 50 Hz | 4 h 21 min | F1 | 0,225 →0,225 → 0,224 → 0,160 → 0,009 | Output current at 2,2 A got max. input power 25,3 W for attaining steady conditions and max. power attained. When added 5% output current, output power dropped to 20,01 W. When added output current to 3,1 A, got input power 25,2 W (output power 17,7 W) and attained steady conditions, then added 5% output current, output power dropped to 8,25 W, and then added 5% output current, output changed to 0 W. No component damage, no hazard. Pn = 25,3 \rightarrow 25,3 \rightarrow 25,2 \rightarrow 15,8 \rightarrow 0,3 W |
| | | | | | | lout = $2,2 \rightarrow 2,3 \rightarrow 3,1$ $\rightarrow 3,3 \rightarrow 0 \text{ A}$ |
| | | | | | | Winding temp. T1 = 94,4 °C |
| Output terminal | S-C | 264 V / 50 Hz | 10 min | F1 | 0,008 | Unit shut down immediately. No higher temperature rise. No hazard. |
| Q1 | s-c pin 1/8 | 264 V / 50 Hz | 10 min | F1 | 0 | Unit shut down immediately. No higher temperature rise. No damage, no hazard. |
| U1 | s-c pin 6/8 | 264 V / 50 Hz | 10 min | F1 | 0,008 | U1 shut down immediately, input changed to 0,4 W, no hazard. |
| C7 | S-C | 264 V / 50 Hz | <1s | F1 | 0,006 | Unit shut down immediately. No higher temperature rise. No hazard. |

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| component No. | fault | test voltage (V) | test time | fuse No. | input/fuse cur- rent (A) | result | | | |
|------------------|--|---------------------|--------------|-------------|--------------------------------|---|--|--|--|
| U1 | s-c pin 1/2 | 264 V / 50 Hz | <1s | F1 | 0 | Fuse F1 opened immediately and components L3 damaged and U1 MOSFET function shutdown immediately, no hazard. | | | |
| U1 | s-c pin 1/2 | 90 V / 60 Hz | <1s | F1 | 0 | Fuse F1 opened immediately and components L3 damaged and U1 MOSFET function shutdown immediately, no hazard. | | | |
| C2 | S-C | 264 V / 50 Hz | <1s | F1 | 0 | Fuse F1 opened immediately, no damage, no hazard. | | | |
| C2 | S-C | 90 V / 60 Hz | <1s | F1 | 0 | Fuse F1 opened immediately, no damage, no hazard. | | | |
| BD1 | s-c pin 1/2 | 264 V / 50 Hz | <1s | F1 | 0 | Fuse F1 opened immediately, no damage, no hazard. | | | |
| BD1 | s-c pin 1/2 | 90 V / 60 Hz | <1s | F1 | 0 | Fuse F1 opened immediately, no damage, no hazard. | | | |
| BD1 | s-c pin 2/3 | 264 V / 50 Hz | <1s | F1 | 0 | Fuse F1 opened immediately, no damage, no hazard. | | | |
| BD1 | s-c pin 2/3 | 90 V / 60 Hz | <1s | FR1 | 0 | Fuse F1 opened immediately, no damage, no hazard. | | | |
| | | | | | | | | | |
| | ary information | | -iit- 0000 i | | | | | | |
| Electric strei | Electric strength test between pri. and sec. circuit: 3000 Va.c. / 1 min: Pass | | | | | | | | |

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6. Component List

| object/part No. | manufacturer / trademark | type/model | technical data | Standard | Mark(s) of conformity |
|----------------------|--|-----------------|---|---|---|
| Enclosure | CHI MEI CORPORATION | PC-6620 | PC, V-0, 110°C, min. thickness: 1,5 mm | UL94 | UL(E56070) |
| Pin holder | CHI MEI CORPORATION | PC-6620 | PC, V-0, 110°C, min. thickness: 1,5 mm | UL94 | UL(E56070) |
| PWB | Interchangeable | Interchangeable | V-0, 130°C | UL796 | UL |
| Fuse (F1) | Littelfuse, Inc. | 392 | T2A, 250 V | IEC 60127- 1:2006 + A1: 2011 + A2: 2015 IEC 60127-3: 2015 EN 60127-1:2006 + A1: 2011 + A2: 2015 EN 60127-3:2015 | VDE (126983) |
| Y-cap. (CY1) | Dongguan Easy- gather Electronic Co., Ltd. | DCF | 2200 pF, 400 VAC, 25/125/21/C, Y1 | IEC 60384-14: 2005 EN 60384-14: 2005 | VDE (4002922942) |
| Isolating IC (U1) | Power Integrations, Inc. | INN2215K1608 | 650Vpk or 725Vpk max at 1,36Apk max, 400 Vpk at 2,55 A max, 130°C | IEC 60950- 1:2005 (Second Edition) + Am 1:2009 EN 60950-1:2006 + A11: 2009 + A1: 2010 + A12: 2011 | TUV Rheinland CB cert.: US- TUVR-9085; CB test report No.: 31380082.012 |
| Insulation sheet | SABIC JAPAN L L C | FR700 | PC, V-0, 125 °C, min. thickness: 0,4 mm | | UL (E207780) |
| Line fitter (L1) | Shenzhen Songdao Technology Co., Ltd. | 6*3*2-100UH | 100 UH, 130°C | | Tested with appliance |
| Copper wire | Interchangeable | Interchangeable | 130°C | UL1446 | UL |
| TIW | TA YA ELECTRIC WIRE & CABLE CO LTD | TILW-B | 130 °C, class B, reinforced insulation | EN 60950-1: 2006 + A11+A1+A12+A2: 2013 | VDE (40019957) |

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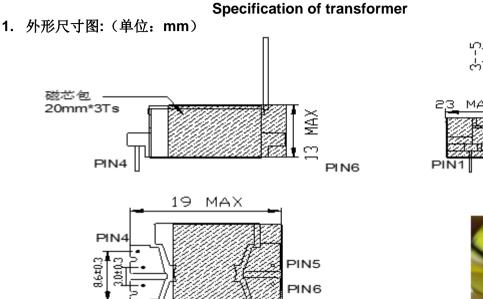
| Transformer (T1) | Dongguan BiaoKe Electronic Technology Co., Ltd. | PQ20V | Class B | | Tested with appliance | | | | |
|----------------------------|---|----------|--|---|-----------------------|--|--|--|--|
| Bobbin | CHANG CHUN PLASTICS CO LTD | T375J | PMC, V-0, 150°C, min. thickness: 0,45 mm | UL94 | UL (E59481) | | | | |
| Primary Winding | SIHUI HENGHUI ELECTRICAL APPLIANCES CO LTD | 2UEW/155 | 155°C | UL1446 | UL (E337948) | | | | |
| Secondary winding (TIW) | TA YA ELECTRIC WIRE & CABLE CO LTD | TILW-B | 130 °C, class B, reinforced insulation | EN 60950-1: 2006 + A11+A1+A12+A2: 2013 | VDE (40019957) | | | | |
| Insulating tape | DONGGUAN BLEN ELECTRONIC TECHNOLOGY CO LTD | BL002 | 130°C | UL510 | UL (E480647) | | | | |
| Insulation tube | GREAT HOLDING INDUSTRIAL CO LTD | TFL | PTFE, 200°C, 150 V, VW-1 | UL224 | UL (E156256) | | | | |
| Supplementary | Supplementary information: | | | | | | | | |
| 1) Provided ev | 1) Provided evidence ensures the agreed level of compliance. See OD-CB2039. | | | | | | | | |

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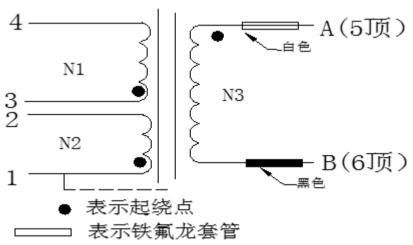


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2. 原理图

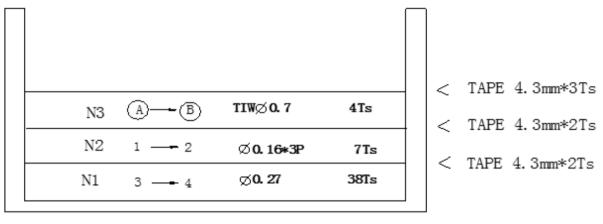


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| | | | |

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3. 绕制结构图:



PIN

TOP

注: PIN1留引线镀锡后接于磁芯。

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Attachment A: Plug portion test results for direct plug-in equipment according to EN 50075: 1990

| Clause | Requirement test | Result- remark | Verdict | | | | |
|--------|---|---|---------|--|--|--|--|
| 5 | RATING | | | | | | |
| | The product shall be rated $\leq 2,5$ A and ≤ 250 V a.c. | | Р | | | | |
| 6 | MARKING | | | | | | |
| | Marking requirement shall be checked by the product standard | Should be evaluated in whole unit | | | | | |
| 7 | DIMENSIONS | | | | | | |
| | Plugs comply with standard sheet 1 | | Р | | | | |
| | Compliance is checked by measurement | See appended table | Р | | | | |
| | Compliance checked by means of the gauges in figure 1 (optional) and figure 2 | | Р | | | | |
| 8 | PROTECTION AGAINST ELECTRIC SHOCK | | | | | | |
| 8.1 | Live parts shall not be accessible | | Р | | | | |
| | Checked by test finger | | Р | | | | |
| | No deformation or no live part accessible during the additional test: (75^{+3}) N through the tip of a straight unjointed test finger for (60^{+5}) s at ambient temperature (35 ± 2) °C | 75 N, 35 °C | Р | | | | |
| 8.2 | No possibility to make connection between a pin of the plug and a live socket contact of a socket-outlet while the other pin is accessible | | Р | | | | |
| | Compliance is checked by means of the gauge in figure 4: no contact between the gauge and the engagement face of the plug for 1 min (at $35 ^{\circ}C \pm 2 ^{\circ}C$ for thermoplastic material) | The gauge did not come into contact with the engagement face of the plug. | Р | | | | |
| 8.3 | External parts of plugs, with the exception of the pins, shall be of insulating material | | Р | | | | |
| 9 | CONSTRUCTION | | | | | | |
| 9.1 | Non-rewirable requirements are not applicable to the direct plug-in equipment | | | | | | |
| 9.2 | This clause is not applicable to the direct plug-in equipment | | | | | | |
| 9.3 | Pins shall be solid and have adequate mechanical strength | See tests of clause 13 | Р | | | | |

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Report No: SZES171100487501 Date: 2017-12-12

| Clause | Requirement test | Result- remark | Verdict |
|--------|--|------------------------------------|---------|
| 9.4 | Pins shall be locked against rotation and adequately fixed into the body of the plug | See tests of 13.1 and 13.4 | Р |
| 9.5 | Connection requirements are not applicable to the direct plug-in equipment | | _ |
| 9.6 | The equipment shall easily be withdrawn by hand from a socket-outlet | | Р |
| 10 | RESISTANCE TO HUMIDITY | | |
| | Humidity treatment shall be checked by the product standard | | |
| 11 | INSULATION RESISTANCE AND ELECTRIC S | TRENGTH | |
| | Insulation resistance and electric strength shall be checked by the product standard | | |
| 12 | FLEXIBLE CORDS AND THEIR CONNECTION | | |
| | Flexible cords and their connection requirements are not applicable to the direct plug-in equipment | | _ |
| 13 | MECHANICAL STRENGTH | | |
| 13.1 | Pressure between 2 flat surfaces on the plug (150 N for 5 min) | | Р |
| | 15 minutes after removal of the force, no deformation would result in undue alteration of those dimensions which ensure safety | | Р |
| 13.2 | Subjected to tumbling barrel; number of falls | Direct plug-in equipment, 50 falls | Р |
| | After the test, no part shall become detached or loosened | | Р |
| | After the test, the pins shall not become so deformed that the plug cannot be introduced into the gauge of figure 2 and also fails to comply with clause 7 and 8.2 | | P |
| | After the tumbling barrel test, the pins shall not turn when applying a torque of 0,4 Nm, first in one direction and then in opposite direction | | Р |
| 13.3 | Insulating sleeves: 20000 movements, (4-0,1) N (apparatus shown in Figure 9) | | Р |
| | After the test | | Р |
| | - the sleeve shall show no damage | | Р |

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| Clause | Requirement test | Result- remark | Verdict | | | |
|--------|---|-----------------------------------|---------|--|--|--|
| | - the sleeve shall not have punctured or rucked up | | Ρ | | | |
| | - the sleeve shall satisfy electric strength test | | Р | | | |
| 13.4 | (40^{+1}) N applied for (60^{+5}) s on each pin in turn, at (70 ± 2) °C, after the plug has been placed for (60^{+5}) min | 40 N, 70 °C | Р | | | |
| | Displacement ≤ 1 mm when the plug has cooled down | Max. displacement: 0,3 mm | P | | | |
| 14 | RESISTANCE TO HEAT AND TO AGEING | | • | | | |
| 14.1 | Plugs shall be sufficiently resistant to heat | | Р | | | |
| 14.1.1 | Stress relief test shall be checked by the product standard | | _ | | | |
| 14.1.2 | A force of (20^{+1}) N applied by means of an apparatus shown in figure 10 at (80 ± 2) °C | 20 N, 80 °C | Р | | | |
| | After (60 ⁺⁵) min, the jaws are removed and the plugs shall show no damage | | Р | | | |
| 14.2 | This ageing test is not applicable to direct plug- in equipment | | Р | | | |
| 15 | CURRENT-CARRYING PARTS AND CONNEC | TIONS | | | | |
| 15.1 | This clause is not applicable to the direct plug-in equipment | | | | | |
| 15.2 | This clause is not applicable to the direct plug-in equipment | | _ | | | |
| 15.3 | Current-carrying parts shall be either of: | | Р | | | |
| | - copper | | N/A | | | |
| | - an alloy containing at least 58% copper for parts made from rolled sheet (in cold condition) or at least 50% copper for other parts | | Р | | | |
| | - other metals having a mechanical strength, an electrical conductivity and a resistance to corrosion adequate for their intended use | | N/A | | | |
| | Current-carrying parts which may be subjected to mechanical wear, shall not be made of steel provided with an electroplated coating | | N/A | | | |
| 16 | CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH INSULATION | | | | | |
| | Creepage distances, clearances and distances through insulation shall be checked by the product standard | Should be evaluated in whole unit | | | | |
| 17 | RESISTANCE OF INSULATING MATERIAL TO ABNORMAL HEAT AND TO FIRE | | | | | |
| | Glow-wire test | See appended table | Р | | | |

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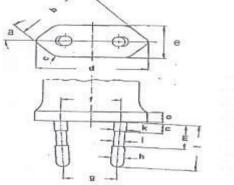
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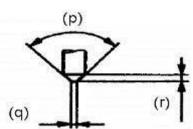
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Report No: SZES171100487501 Date: 2017-12-12

| Clause | Requirement test | Result- remark | Verdict |
|--------|--|----------------|---------|
| | The test made on one plug, 2 further plugs tested in case of doubt | | N/A |
| | ~ ~ ~ | | 1 |





| 7 | TABLE: Dimensional measurement | | | | Р |
|-----------|--------------------------------|-----------|---|---------------|---------------|
| Locations | Size (mm) | Tolerance | olerance Measured (for both pins, if applicable) (mm) | | |
| | | (mm) | Sample No.:1 | Sample No.:2 | Sample No.:3 |
| а | 45° | | Pass | Pass | Pass |
| b | 26,1 | ±0,5 | 25,81 – 26,16 | 25,81 – 26,13 | 25,89 – 26,16 |
| С | R5 | +1 | Pass | Pass | Pass |
| d | 35,3 | ±0,7 | 35,02 – 35,27 | 35,04 – 35,27 | 35,04 – 35,26 |
| е | 13,7 | ±0,7 | 13,67 – 13,88 | 13,66 – 13,87 | 13,67 – 13,87 |
| f | 18 – 19,2 | | 18,22 | 18,20 | 18,21 |
| g | 17 – 18 | | 17,45 | 17,51 | 17,49 |
| h | Ø4 | ±0,06 | 3,99 / 3,99 | 3,99 / 4,00 | 3,99 / 3,99 |
| i | Ø3,8 | max. | 3,43 / 3,40 | 3,43 / 3,42 | 3,42 / 3,43 |
| k | Ø4 | max. | 3,83 / 3,84 | 3,81 / 3,82 | 3,83 / 3,82 |
| | 19 | ±0,5 | 19,21 / 19,15 | 19,12 / 19,10 | 19,17 / 19,16 |
| m | 10 | +1 | 10,56 / 10,61 | 10,64 / 10,65 | 10,66 / 10,64 |
| n | 0-4,0 | | 3,92 / 3,93 | 3,88 / 3,90 | 3,91 / 3,91 |
| 0 | 18,0 | min. | Pass | Pass | Pass |

| 17 T | TABLE: glow-wire test | | | | Р | |
|-------|-----------------------|--------------------------|------------------|----------------------------|------|---------|
| part | | test temperature (°C) | Type of material | technical data of material | obse | rvation |
| Pin b | oridge | 750 | PC-6620 | PC, V-0 | No | flame |
| Enclo | osure | 650 | PC-6620 | PC, V-0 | No | flame |

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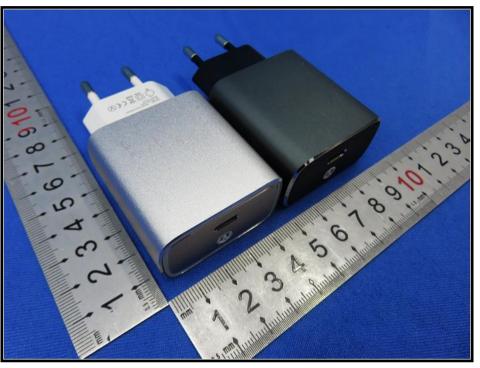
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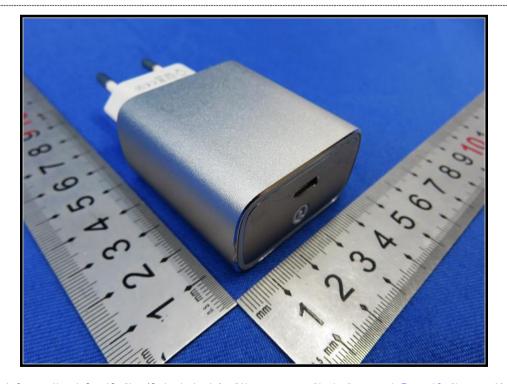


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7. Photo documentation

Whole unit





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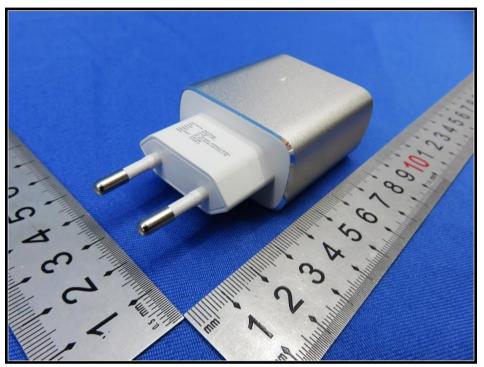
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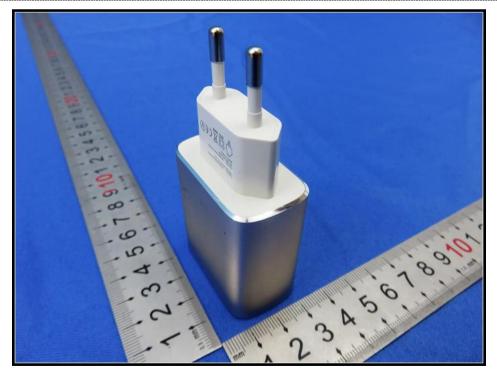
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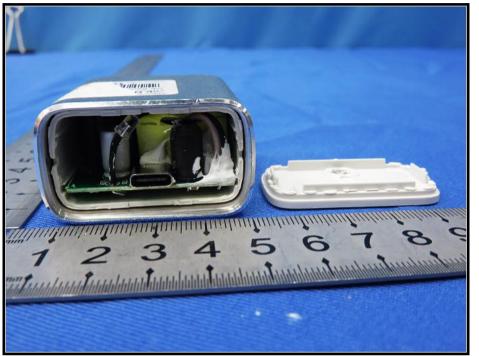
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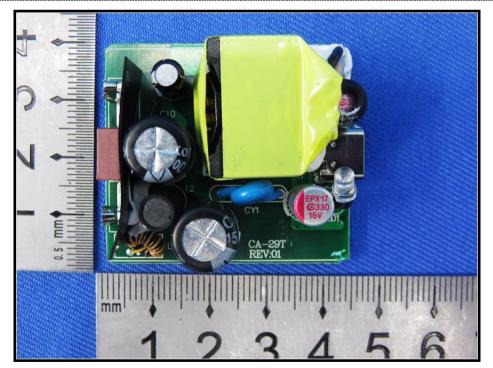


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Internal view



PWB



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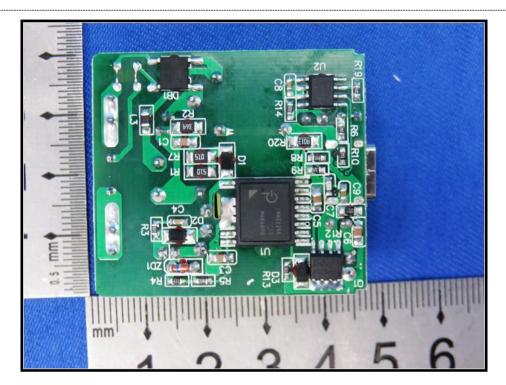
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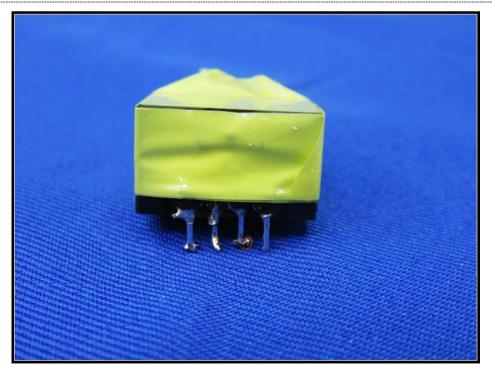
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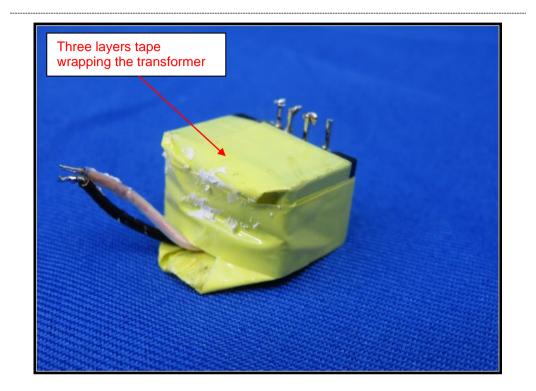
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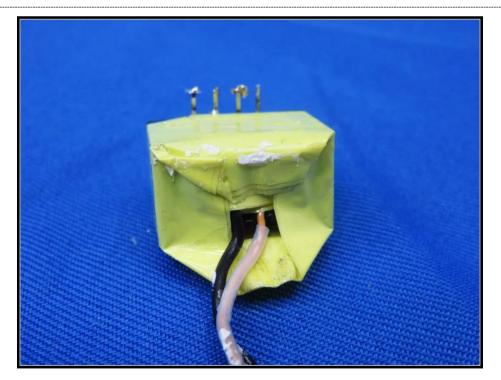
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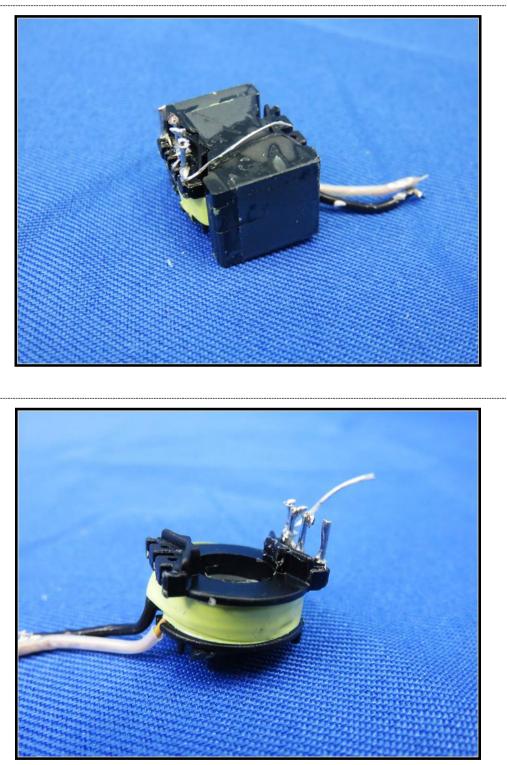
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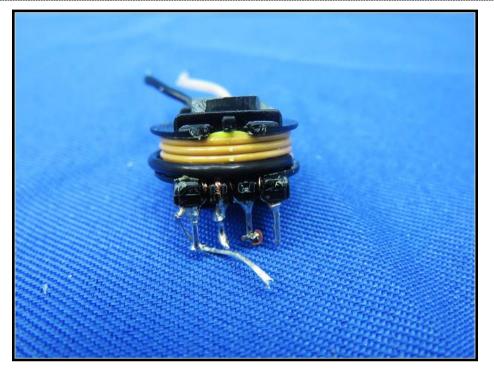
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Secondary winding



Primary winding



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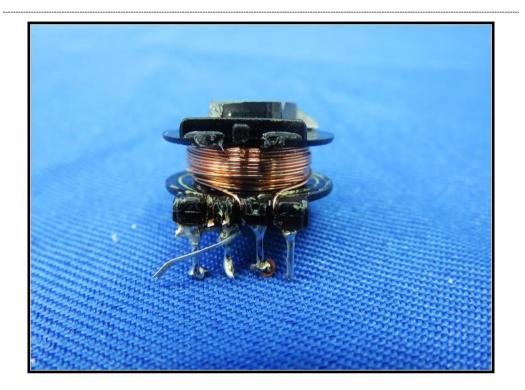
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- 1. The following language(s) of marking(s) and instruction sheets were submitted during the test application:
 - English
 - Throughout this report a comma is used as the decimal separator.

According to the standard, instruction sheets and other texts required by the standard should be written in the official language(s) of the country in which the product is to be sold. The applicant should ensure that the product in future production fulfils the receptive standard requirements.

- 2. The components performed satisfactorily during testing and are considered to be suitable for use in the sample tested. Acceptances of the safety critical components and materials were based on:
 - the certification record(s) and/or test report submitted by the applicant; or
 - component / material tested with the appliance
 - Detail shall be referred to the component list on the appendix of this test report.
- 3. Plug (and socket) used in this product must be compiled with the local plug and socket regulation of the respective country.

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