

## 1.INPUT:

33T1335

- 1.1 Input voltage rating : 100-240V AC
- 1.2 Input voltage range: 90-264V AC
- 1.3 Input frequency rating : 60/50Hz
- 1.4 Input frequency range: 63/47Hz
- 1.5 AC input current: 1.5A Max .@100V AC
- 1.6 AC input power saving: 0.3W Max .@230V AC at no load
- 1.7 Inrush Current: At Full Load ,25°C, Cold Start  
115VAC,60Hz & 230VAC,50Hz INPUT  
NO damage shall be occurred and the input fuse shall not be blown up
- 1.8 Leakage current: 0.25mA Max

## 2. Output characteristics

- 2.1 Output voltage: 12V
- 2.2 Max. load current 4.08A
- 2.3 Min. load current 0A
- 2.4 Output no-load voltage: 12V±5%
- 2.5 Output load voltage: 12V±5%
- 2.6 Output ripple & noise: 300mV max.

Measured by using a 12inch twisted pair terminated with a 10uF capacitor and 0.1uF ceramic in parallel

## 3. General characteristics

- 3.1 Total output power: 48.96Watts
- 3.2 Efficiency measurement : 85%(Min.)@full load & input 230VAC, Output set to 12V/4A.  
For production testing: 85%(Min.)@full load & input 115VAC, Output set to 12V/4A.  
Efficiency : 86.59%(Min.) at 115Vac 60Hz and 230Vac 50Hz input,  
and 25%, 50%, 75%, 100% of full load after 20minutes warm-up.  
i.e. meet CEC level V and Erp 2 .
- 3.3 Short circuit protection: No damage when output is shorted to GND.  
And after short circuit , auto restart .
- 3.4 Overshoot / Undershoot: 12V±10%

#### 4. Environment:

- 4.1 Operating temperature: 0~40°C  
4.2 Storage temperature: -25°C to 70°C  
4.3 Operating humidity: 8% to 90%  
4.4 Storage humidity: 5% to 95%

#### 5. Application safety standard : meet

- |                                   |                                   |  |                                 |
|-----------------------------------|-----------------------------------|--|---------------------------------|
| <input type="checkbox"/> UL 60950 | <input type="checkbox"/> EN 60950 | <input type="checkbox"/> AS/NZS 60950            | <input type="checkbox"/> J60950 |
| <input type="checkbox"/> UL 60065 | <input type="checkbox"/> EN 60065 | <input checked="" type="checkbox"/> AS/NZS 60065 | <input type="checkbox"/> J60065 |
| <input type="checkbox"/> UL 1310  | <input type="checkbox"/> EN 60335 | <input type="checkbox"/> GB4943                  | <input type="checkbox"/> J61558 |
|                                   | <input type="checkbox"/> EN 61558 | <input type="checkbox"/> GB8898                  |                                 |

#### 6. EMI standard : meet

- |  |  |
|--|--|
| <input type="checkbox"/> FCC Part 15 Class B       | <input type="checkbox"/> GB 9254-2008    |
| <input type="checkbox"/> EN 55022: 2010+AC:2011    | <input type="checkbox"/> GB 17625.1-2012 |
| <input checked="" type="checkbox"/> EN 55013: 2013 | <input type="checkbox"/> J55022          |
|  | <input type="checkbox"/> J55013          |

#### 7. HI-POT test

- (1)Primary to secondary: 4525VDC for 3sec. 5mA(production testing)  
4242VDC for 1min. 5mA(Sample testing)  
(2)Primary to case: 4525VDC for 3sec 5mA(Production test)  
(only for metal case )

#### 8. Insulation resistance

Input to output: >10Mohm.@500VDC

#### 9. Reliability:

- 9.1 MTBF: 50K hours min. @full load at 25°C ambient temperature  
9.2 Burn-in: 2-4hours,25~45°C ,Input 220VAC,Output 80% load .  
9.3 Altitude: Will operate properly at altitude between 0 to 10000ft

#### 10. Mechanical

10.1 Dimensions: Please see the mechanical dimension drawing.

10.2 Weight: 252.2g

11. Mechanical specification:

11.1 AC plug: as drawing

11.2 AC CORD: as drawing

11.3 DC cord:

11.3.1 Bending test: With load 200g, then bend 120 degree at ratio of 45times/minute.

|       |                |
|-------|----------------|
| 18AWG | 4500cycles Min |
|-------|----------------|

|       |                |
|-------|----------------|
| 20AWG | 2400cycles Min |
|-------|----------------|

|       |                |
|-------|----------------|
| 22AWG | 2000cycles Min |
|-------|----------------|

|       |                |
|-------|----------------|
| 24AWG | 1500cycles Min |
|-------|----------------|

11.4 Cord length: attached drawing

11.5 Output plug: attached drawing

11.6 Case Size: attached drawing

11.7 Label

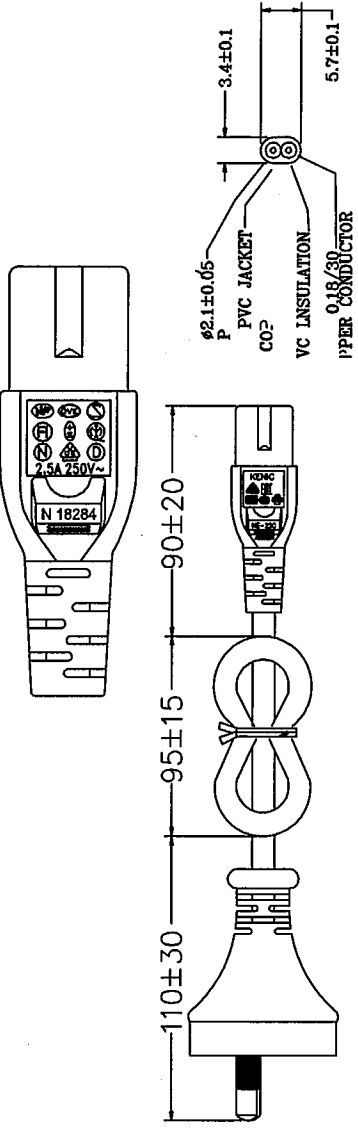
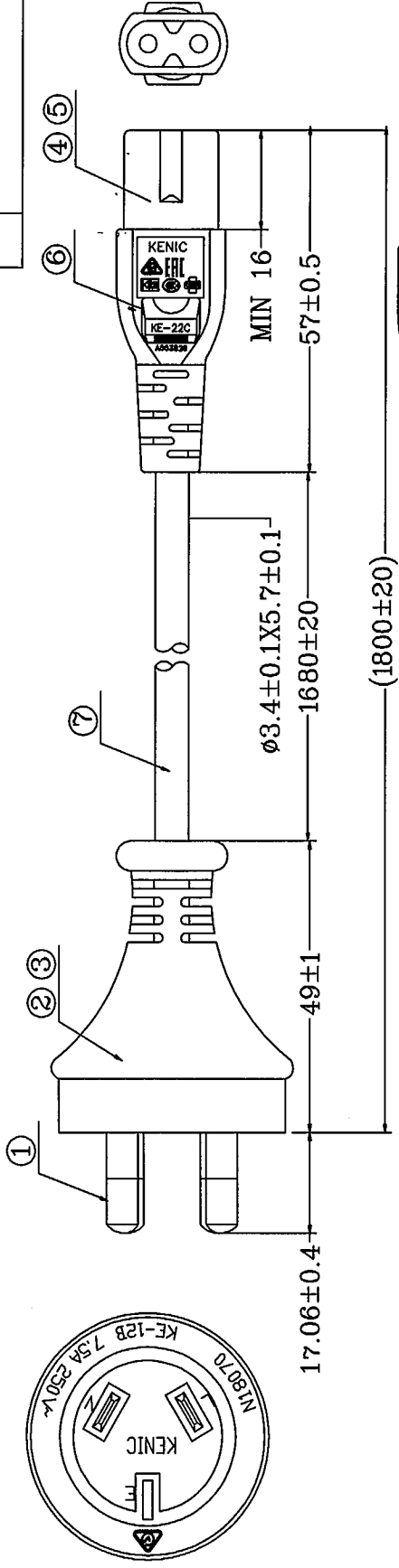
11.8 Package

## SAMPLE PRIMARY TEST REPORT/样品初测报告

| CUSTOMER/客户  |                     | RADIO   |   | PRODUCT NO./产品编号 |     |                              |    |              |    | GPE060D |    |     |           |      |
|--|---------------------|---------|---|------------------|-----|------------------------------|----|--------------|----|---------|----|-----|-----------|------|
| MODEL NO./产品型号   |                     |         |   |                  |     |                              |    | TEST BY/测试人: |    | 陈彬      |    |     |           |      |
| Test Items./测试项目   | Test Condition/测试条件 | Unit/单位 | Sample quantity and test result/样品数量和测试结果 |                  |     |                              |    |              |    |         |    |     | Pass/Fail |      |
|  |                     |         | 1#  | 2#               | 3#  | 4#                           | 5# | 6#           | 7# | 8#      | 9# | 10# |           |      |
| Unload output voltage/<br>空载输出电压(0.0A)<br>11.4Vdc -12.6Vdc             | 90Vac               | V       | 12.12                                     | 12.07            |     |                              |    |              |    |         |    |     |           | PASS |
|  | 115Vac              | V       | 12.12                                     | 12.07            |     |                              |    |              |    |         |    |     |           | PASS |
|  | 230Vac              | V       | 12.12                                     | 12.07            |     |                              |    |              |    |         |    |     |           | PASS |
|  | 264Vac              | V       | 12.12                                     | 12.07            |     |                              |    |              |    |         |    |     |           | PASS |
| Rated load output voltage/<br>额定负载输出电压<br>(4.08A)<br>11.4Vdc - 12.6Vdc | 90Vac               | V       | 11.49                                     | 11.49            |     |                              |    |              |    |         |    |     |           | PASS |
|  | 115Vac              | V       | 11.49                                     | 11.49            |     |                              |    |              |    |         |    |     |           | PASS |
|  | 230Vac              | V       | 11.46                                     | 11.48            |     |                              |    |              |    |         |    |     |           | PASS |
|  | 264Vac              | V       | 11.44                                     | 11.48            |     |                              |    |              |    |         |    |     |           | PASS |
| Output ripple & noise voltage/<br>输出纹波及噪声电压 ≤300mV                     | 90Vac               | mV      | 124                                       | 128              |     |                              |    |              |    |         |    |     |           | PASS |
|  | 115Vac              | mV      | 115                                       | 118              |     |                              |    |              |    |         |    |     |           | PASS |
|  | 230Vac              | mV      | 128                                       | 121              |     |                              |    |              |    |         |    |     |           | PASS |
|  | 264Vac              | mV      | 139                                       | 117              |     |                              |    |              |    |         |    |     |           | PASS |
| Short-circuit protection test/<br>短路保护测试                               | 90Vac               | W       | 0.046                                     | 0.036            |     |                              |    |              |    |         |    |     |           | PASS |
|  | 264Vac              | W       | 0.10                                      | 0.18             |     |                              |    |              |    |         |    |     |           | PASS |
| Over current protection/<br>过流保护点 (≥4.488A)                            | 90Vac               | A       | 5.60                                      | 5.40             |     |                              |    |              |    |         |    |     |           | PASS |
|  | 264Vac              | A       | 5.20                                      | 5.30             |     |                              |    |              |    |         |    |     |           | PASS |
| IC Vcc voltage test/<br>Vcc电压测试 (规格≤27V)                               | 90Vac               | V       | 20.48                                     | 20.63            |     |                              |    |              |    |         |    |     |           | PASS |
|  | 264Vac              | V       | 20.40                                     | 20.62            |     |                              |    |              |    |         |    |     |           | PASS |
| Hi-pot test/<br>介电强度   | 4242Vdc/5mA/1Minute |         | OK  | OK               |     |                              |    |              |    |         |    |     |           | PASS |
| Appearance/<br>外观  | 无刮伤,字迹清晰<br>无误      |         | OK  | OK               |     |                              |    |              |    |         |    |     |           | PASS |
| Mosfet(IC)/Vds耐压测试   | 264Vac              | V       | 596                                       | Mosfet规格         | 650 | Derating ≤ 95%<br>Max. Volt. |    | 91.69%       |    |         |    |     | PASS      |      |
| 输出肖特基D/Vrr耐压测试   | 264Vac              | V       | 52  | Diode规格          | 60  | Derating ≤ 90%<br>Max. Volt. |    | 86.67%       |    |         |    |     | PASS      |      |
| 变压器反馈绕组上所连接电阻(R)功率损耗(PD)   | 90Vac               | P       | -   | R(功率)规格          | -   | Derating ≤ 65%<br>Max Power  |    | -            |    |         |    |     | PASS      |      |
|  | 264Vac              | P       | -   | R(功率)规格          | -   | Derating ≤ 65%<br>Max Power  |    | -            |    |         |    |     | PASS      |      |

EO-3-011 G/1

|    |         |     |          |
|----|---------|-----|----------|
| 版本 | 变更内容    | 变更人 | 变更时间     |
| B  | 按实物变更印字 | 向增焜 | 16.07.26 |



AC线剖面图

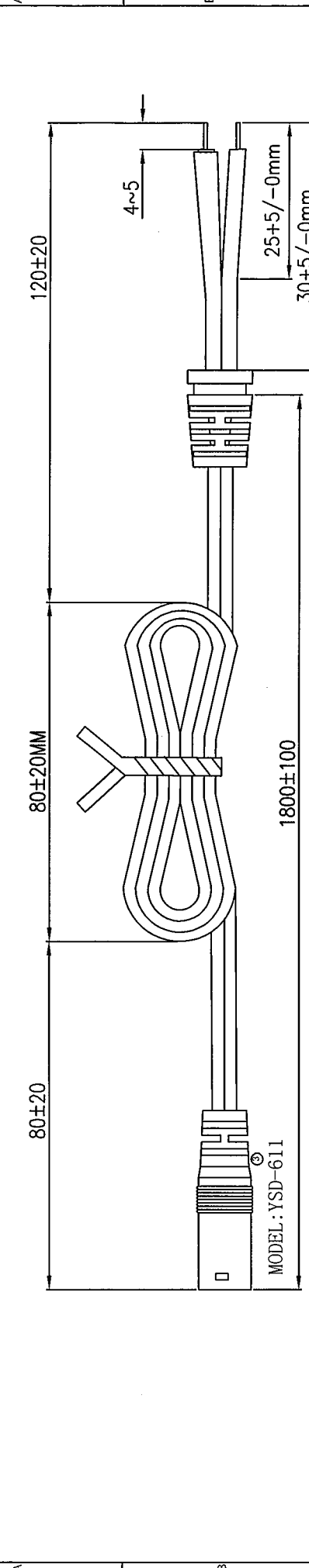
注：1. 插头需套插脚护套。

2. 电线印字内容

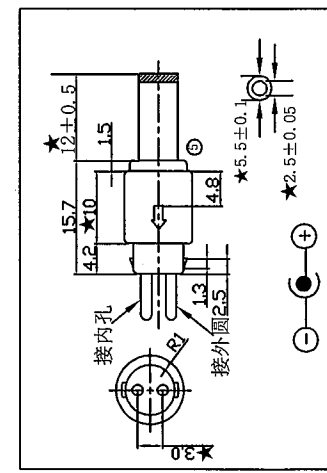
KENIC \* <math>\triangleleft</math> VDE <math>\triangleleft</math> KEMA-KEUR <math>\triangleleft</math> ÖVE <math>\triangleleft</math> CEBEC 1139  
 + + + + + IEMMEQU <math>\odot</math> <math>\odot</math> <math>\odot</math> <math>\odot</math> NF-USE  
 1327 KELF-75 N15075 H03VVH2-F 2X0.75mm<sup>2</sup>  
 300/300V RS

|    |      |                                      |         |    |    |
|----|------|--------------------------------------|---------|----|----|
| 10 | 装箱数量 |                                      |         |    |    |
| 9  | 电线单重 |                                      |         |    |    |
| 8  | 扎带   | 扎带                                   | 1 PC    | 黑色 |    |
| 7  | 电线   | H03VVH2-F 2X0.75mm <sup>2</sup> (印字) | 1165±15 | 黑色 |    |
| 6  | 外模   | KE-22C外模 注塑外模 PVC                    | 9.2 g   | 黑色 |    |
| 5  | 内套   | 内套                                   | 1 PC    | 黑色 |    |
| 4  | 端子   | 3.05梅花磷铜端子                           | 2 PCS   | —  |    |
| 3  | 外模   | KE-12B外模 注塑外模 PVC                    | 34.5 g  | 黑色 |    |
| 2  | 内套   | 内套                                   | 1 PC    | 黑色 |    |
| 1  | 五金插片 | SAA绝缘铜片                              | 2 PCS   | 黑色 |    |
| 序号 | 名称   | 物料料号                                 | 数量      | 颜色 | 描述 |

|    |      |     |      |
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| 版本 | 变更内容 | 变更人 | 变更时间 |
|    |      |     |      |
|    |      |     |      |



线材规格: 黑色 18# SPT-1 DC 母头配一可换插头

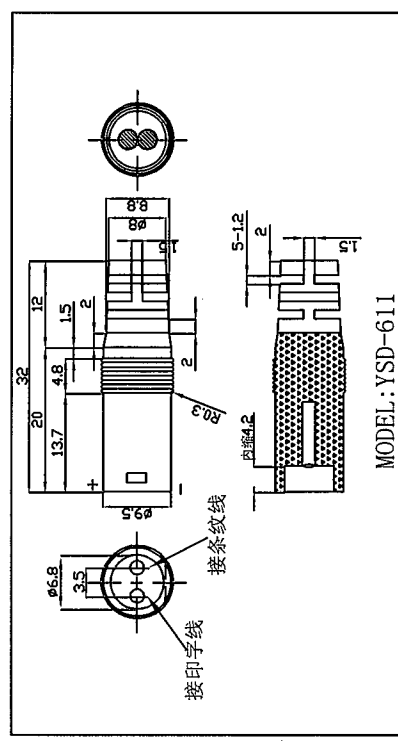


箭头指示正极  
★为重点尺寸

★为重点尺寸

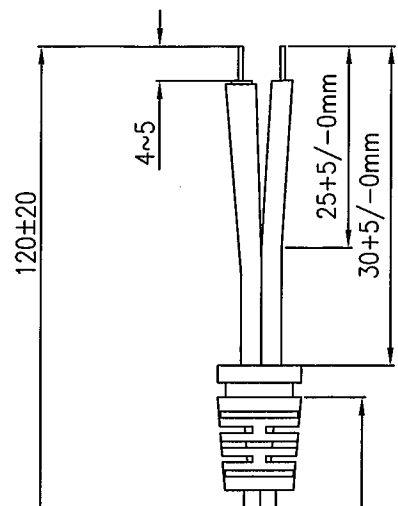
技术要求:

1. 线材摇摆测试, 拉力测试依照金盈线材测试标准。
2. 热变形温度大于60度。
3. 产品必须符合ROHS+PAHS+16P要求。



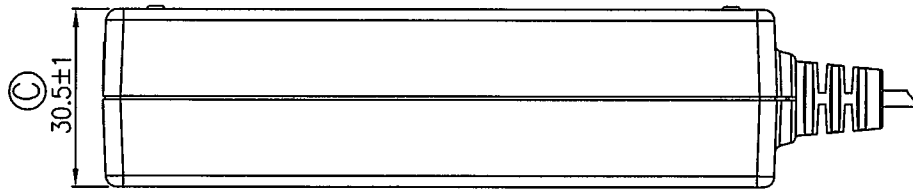
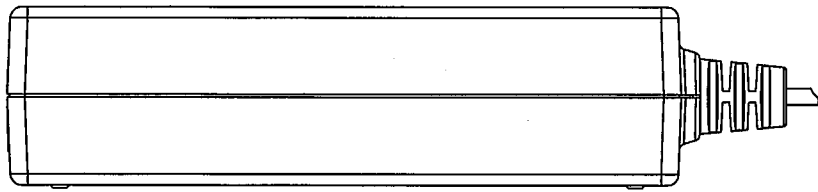
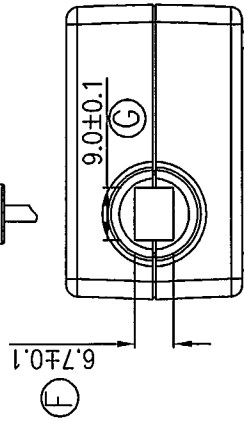
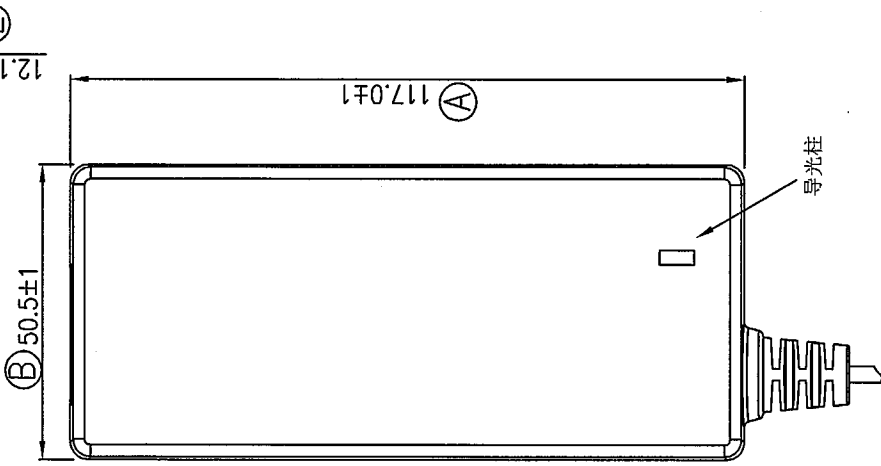
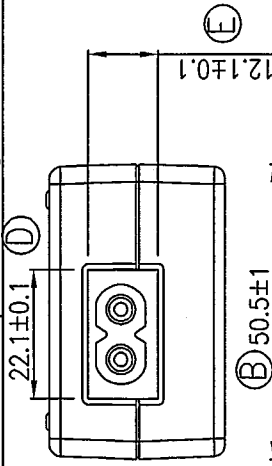
DC头规格:  
编号: YSD611  
包胶材质: 50+/-5P PVC 黑色  
DC头规格: 平头黑胶2.5X5.5X12直头  
DC直头配母头可拆卸转换

MODEL: YSD-611



SR规格:  
编号: YX951  
材质: 70+/-5P PVC 黑色

| 选择 | 颜色          | 料号           |
|----|-------------|--------------|
| ●  | 黑色          | 10-060D-0001 |
|    | 白色 (183436) | 10-060D-0002 |
|    | 苹果白 (AB301) | 10-060D-0003 |
|    | 185669      |              |
|    | AB30        |              |



未标尺寸参考 3D  
材料: PC  
纹面与光面参照样板

| 版本 | 变更内容 | 变更人 | 变更时间 |
|----|------|-----|------|
|    |      |     |      |
|    |      |     |      |
|    |      |     |      |

DATE CODE:YY:YEAR  
WWW:WEEK

