

## SPECIFICATION FOR APPROVAL

| CUSTOMER APPROVAL |       |
|-------------------|-------|
| CONTENT:          |       |
| SIGNATURE:        | DATE: |

CUSTOMER: \_\_\_\_\_

PART NO.: \_\_\_\_\_ REV: \_\_\_\_\_ A0

Please sign and return one copy.

All production units will be built according to this specification, The component specifications remain as same, its brand can be changed

| Manufacturer |         |          |    |       |
|--------------|---------|----------|----|-------|
| Approved     | Checked | Prepared | QA | Sales |
|              |         |          |    |       |

Model No.: K05S050100G B55S68 Unit Color: BLACK

Input: 100-240V<sub>AC</sub> 50/60Hz Output: 5.0V<sub>DC</sub> 1.0A

Product Category: AC ADAPTOR Description: ROHS

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[illegible]

## 1.0 HISTORY REVISION

[illegible]

## 2.0 Electrical performance

### 2.1 Input Characteristics:

|                                |   |
|--------------------------------|---|
| Rated input voltage            | 100-240Vac  |
| Operating range                | 90-264Vac   |
| Rated input frequency          | 50-60Hz   |
| Rated input current            | <b>0.2A Max.</b>  |
| Power consumption (no loading) | <b>0.1W Max.</b> (Input voltage 115V and 230V)                        |
| Primary current protection     | An adequate internal Resistance fuse on the AC input line is provide. |
| Configuration                  | <u>2</u> Conductor  |

### 2.2 Output Characteristics:

|       |                           |   |
|-------|---------------------------|---|
| 2.2.1 | Nominal dc output voltage | <b>5.0V</b>   |
| 2.2.2 | Minimum load current      | <b>0.0A</b>   |
| 2.2.3 | Rating load current       | <b>1.0A</b>   |
| 2.2.4 | Rating output power       | <b>5.0W</b>   |
| 2.2.5 | Line regulation           | The line regulation is less than $\pm 5\%$ while measuring at rated load and $\pm 10\%$ of input voltage changing.  |
| 2.2.6 | Load regulation           | The load regulation for output is less than $\pm 5\%$ , at measured output load from 10% to 100% rated load .   |
| 2.2.7 | No load voltage range     | <b>4.75-5.30V</b>   |
| 2.2.8 | Ripple and noise          | <b><math>\leq 300\text{mVp-p}</math> (100-240Vac)</b>   |
|       |                           | Full load Ripple and noise 300mVp-p (100-240Vac) max.<br>Measurement is done by 20MHZ bandwidth oscilloscope and the output Paralleled a 0.1 $\mu\text{F}$ ceramic capacitor and a 10 $\mu\text{F}$ electrolysis capacitor.(test under the Condition of rated input and rated output) |
| 2.2.9 | Average efficiency        | Accord with energy level VI. Average efficiency <b>73.62%</b> minimum   |
|       |                           | 115V/60Hz and 230V/50Hz, output current from 100%, 75%, 50%, 25%.   |



|        |                         |   |
|--------|-------------------------|---|
| 2.2.10 | Turn on delay time      | <b>5000 mS</b> . At nominal input AC voltage and full load  |
| 2.2.11 | Rise time               | The Supply shall have a start-up rise time of less than <b>100 mS</b> to rise to within regulation limits for all DC outputs. |
| 2.2.12 | Hold up time            | <b>5 mS</b> minimum At nominal input AC voltage and full load   |
| 2.2.13 | Output over-shoot       | Less than <b>10%</b> of nominal voltage value   |
| 2.2.14 | Protection function     |   |
|        | Over current protection | At rated AC input, output current in the range of <u>    </u> / , the power supply will protect                               |

### 2.3 Dielectric Withstand Voltage (HI-POT):

Engineering test: This Adapter shall be applied 3000Vac for 60s between AC input terminal to DC output terminal and enclosure. The cutoff current is specified as 10 mA ; Large cargo product testing : This Adapter shall be applied 3000Vac for 2s between AC input terminal to DC output terminal and enclosure. The cutoff current is specified as 10 mA

### 2.4 Insulation Resistance:

DC 500 V 30 MΩ min between input to output and enclosure.

### 2.5 Overload Test:

In an ambient temperature of 25 °C applies a power source of rated input with the output load adjusted to 10% of rated output and rated continuously for 4 Hours , after turning off 60 minutes in normal temperature.

### 2.6 Humidity Test:

Temperature 45 °C , 90~95% RH for 4 Hours after taken out from oven.

## 3.0 Mechanical Characteristics

### 3.1 Strain Relief Test:

Distance plug or 30CM SR position to impose a 10 pound weight, 1 minutes after the shift is less than 2MM .

### 3.2 Cord Bending Test:

The cord shall withstand a weight of 250 g, swinging from left to right at an angle of 120 degree, 40 cycle/min, 1000 times minimum. The cord shall be conductible.

### 3.3 Drop Test:

Product shall be dropped from a height of 80cm, onto 1cm thickness dry wood surface 1 times from 3 different surface.

## 4.0 Environmental:

### 4.1 Operating Temperature and Humidity Range:

Operate over the temperature range of 0 °C to 45 °C , 20% to 90% relative humidity no condensation.

### 4.2 Storage Temperature and Humidity Range

The operation specified herein will not be adversely affected if stored or transported within the temperature limits of -20 °C to +70 °C with relative humidity up to 90% no condensation.

## 5.0 Surface Structure:

**5.1 Appearance:** Rift, dirty etc. are not permitted.

**5.2 Outline:** Dimension and express as drawing

**5.3 Net Weight:** 80 g Max.

## 6.0 Safety & EMC:

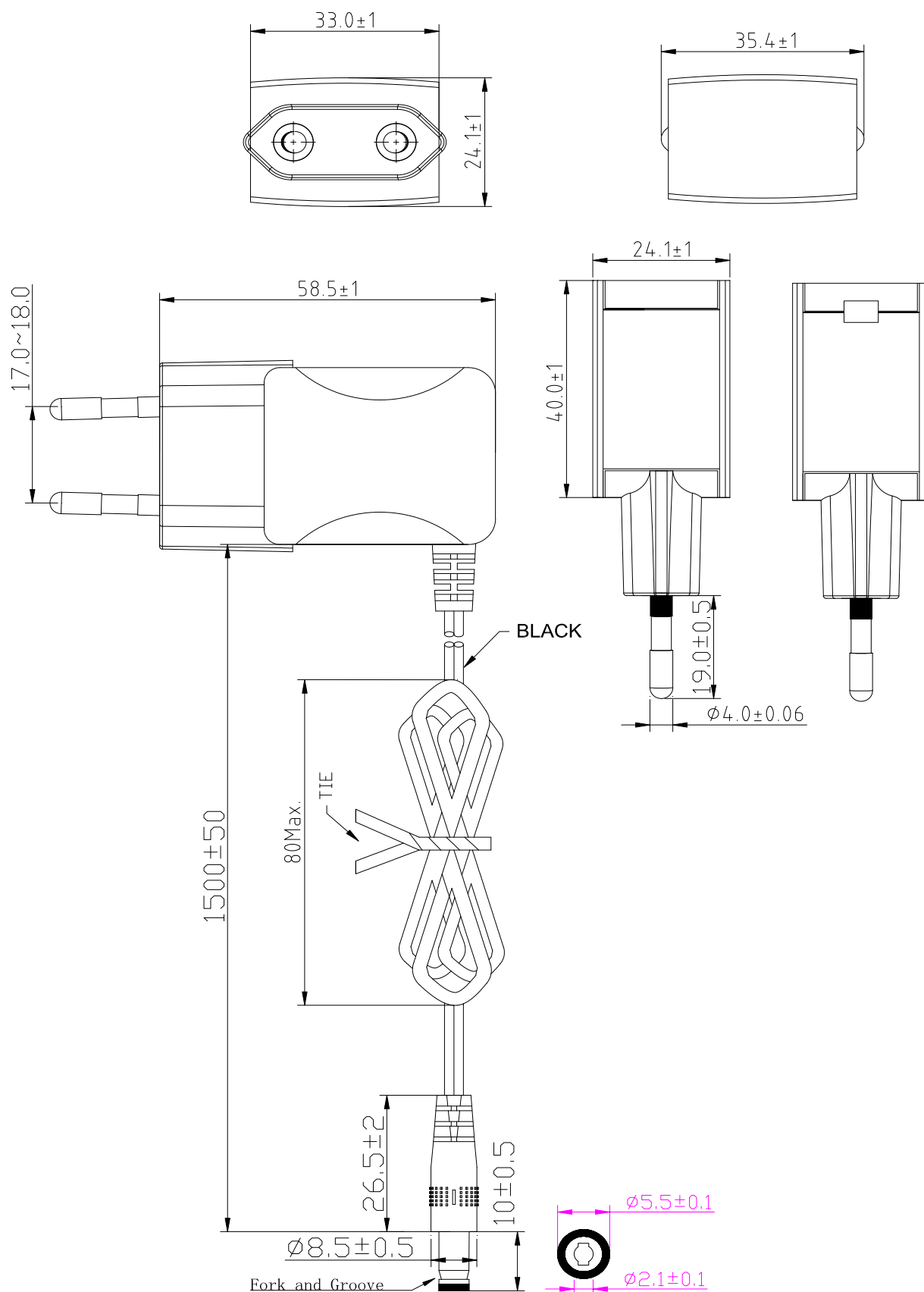
**6.1 Safety Standard :** EN62368-1:2014/A11:2017

**6.2 EMC Standard :** EN55032:2015, EN55035:2017

## 7.0 MTBF:

The design and construction of this power supply shall exhibit a minimum mean time between failure of 35000 hours full rated load operation at 20--25 °C.


## 8.0 Appearance Drawing(Unit:mm) :



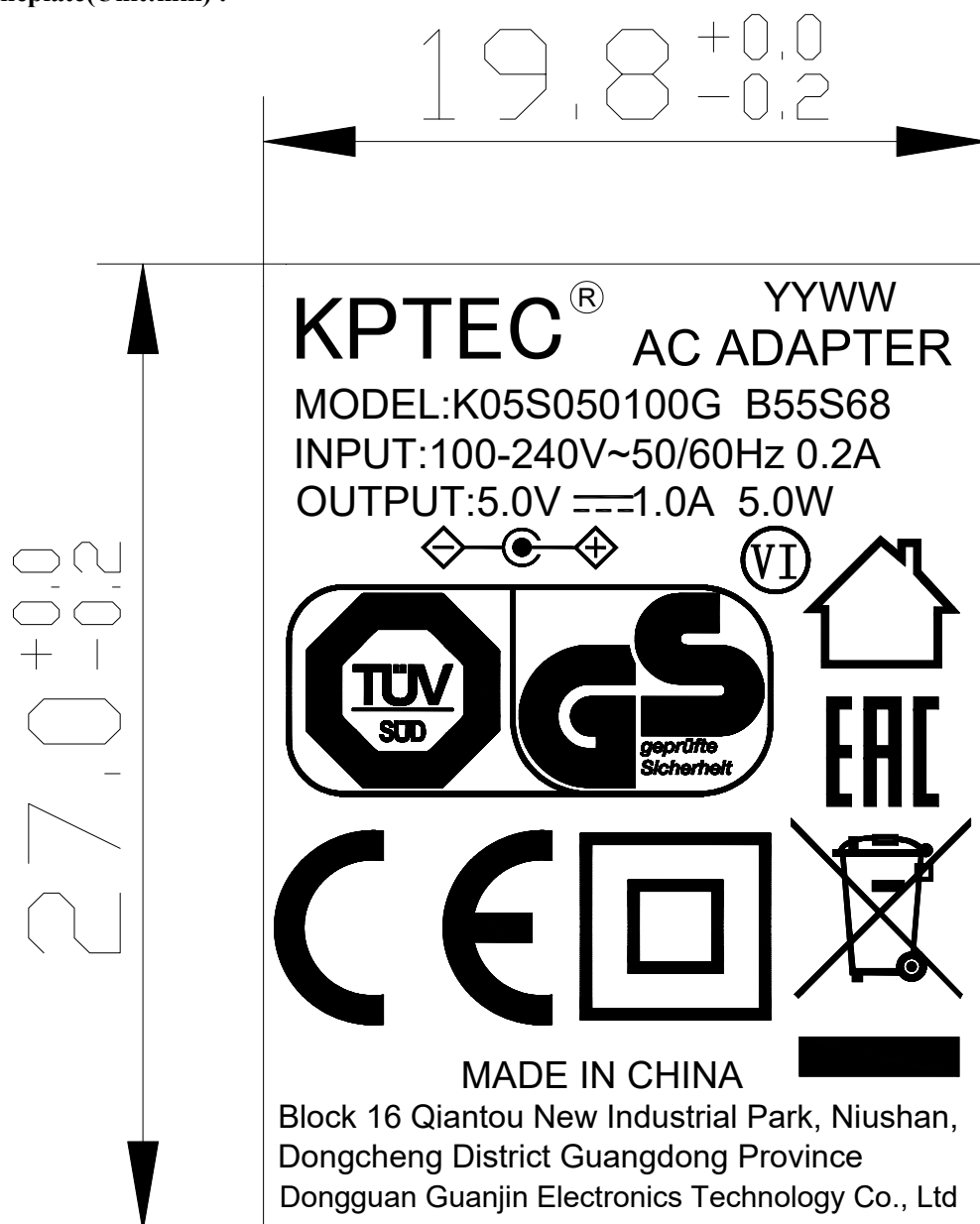
NOTE: (mm)

1) WIRE TYPE: VW-1 2468 80°C 300V L=1500mm 2C 24AWG BLACK

2) DC PLUG SIZE: 5.5\*2.1\*10MM

3) THE POLARITY : 

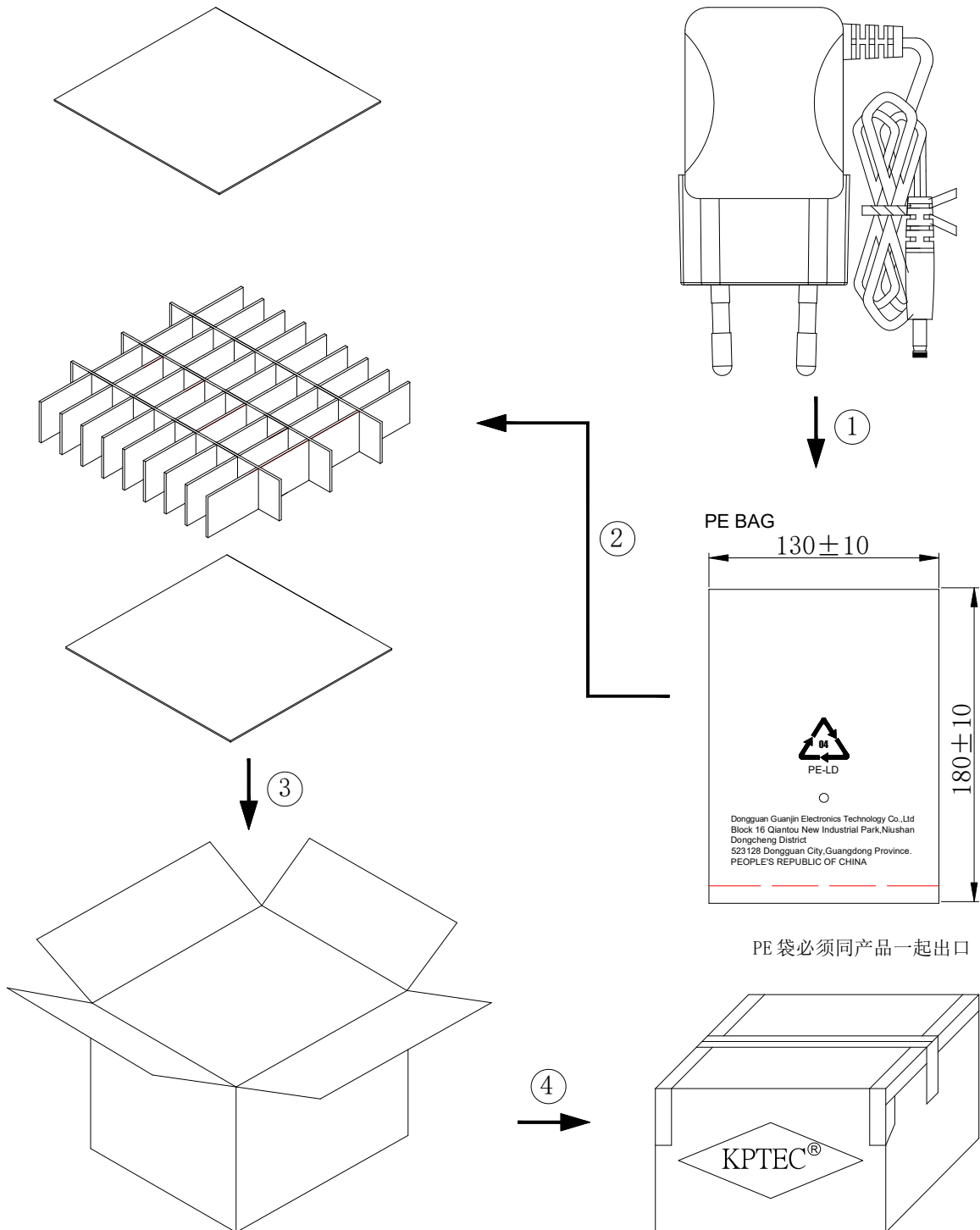
## 9.0 Nameplate(Unit:mm) :



### Note :

- 1) Ming Plate for redium carving
- 2) "YYWW"expressed the production cycle:  
"YY" the year, "WW" the week.

## 10 Packing Drawing(Unit:mm) :



**NOTE: A case of 200 PCS, a total of 4 layers, 50 PCS/layer.**

**1) Cardboard and Corrugated Board Material : B=C**

**2) PE Bag Material :0.03mm**

**3) Outer Carton Material: A=B**

**4) Anlistatig: No requirement.**

**5) Environmental protection requirement: 94/62/EC.**

**6) We will select cardboard packing if customer don't specify packing type.**

**7)The sample package for temporary packaging, the big goods packaging as shown above packaging.**