

SPECIFICATION FOR APPROVAL

CUSTOMER APPROVAL

| CONTENT: |
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SIGNATURE:

DATE:

CUSTOMER:

PART NO.:

HM065 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.: <u>K12S050200G</u> B55S68

Unit Color: <u>BLACK</u>

Input: 100-240V_{AC} 50/60Hz

Output: $5.0V_{DC}$ 2.0A

Product Category: AC ADAPTOR

Dongguan Guanjin Electronics Technology Co.,Ltd

Description: ROHS

King Powerleader(HongKong)Limited

Address:Block 16 Qiantou New Industrial Park Niushan,Dongcheng District Dongguan

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1.0HISTORY REVISION

| Revision Date | Revision Page | Description | Remark |
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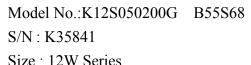


2.0 Electrical performance

| 2.1 Input Characteristics: | |
|--------------------------------|--|
| Rated input voltage | 100-240Vac |
| Operating range | 90-264Vac |
| Rated input frequency | 50-60Hz |
| Rated input current | 0.35A Max. |
| Power consumption (no loading) | 0.1W Max. (Input voltage 115V and 230V) |
| Primary current protection | An adequate internal fuse on the AC input line is provide. |
| Configuration | Conductor |

2.2 Output Characteristics:

| 2.2.1 | Nominal dc output voltage | 5.0V | |
|-------|---------------------------|---|--|
| 2.2.2 | Minimum load current | 0.0A | |
| 2.2.3 | Rating load current | 2.0A | |
| 2.2.4 | Rating output power | 10.0W | |
| 2.2.5 | Line regulation | The line regulation is less than ±5% while measuring at rated load and +/-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 | 4.75-5.30V | |
| 2.2.8 | Ripple and noise | ≪240mVp-p | |
| | | Full load Ripple and noise 240mVp-pmax. Measurement is done by 20MHZ bandwidth oscilloscope and the output Paralleled a 0.1µF ceramic capacitor and a 10µF electrolysis capacitor.(test under the Condition of rated input and rated output) | |
| 2.2.9 | Average efficiency | Accord with energy level VI. Average efficiency 78.70% minimum | |
| | | 115V/60Hz and 230V/50Hz, output current from 100%, 75%, 50%, 25%. | |



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| | 5120 : 1 | |
|--------|-------------------------|---|
| 2.2.10 | Turn on delay time | Less than 5000 mS . 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 100 mS to rise to within regulation limits for all DC outputs. |
| 2.2.12 | Hold up time | 5 mS minimum At nominal input AC voltage and full load |
| 2.2.13 | Output over-shoot | Less than 10% of nominal voltage value |
| 2.2.14 | Protection function | |
| | Over current protection | At rated AC input, output current in the range of, the power supply will protect |

2.3Dielectric 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 DCoutput terminal and enclosure. The cutoff current is specified as 10 mA

2.4 Insulation Resistance:

DC <u>500</u> V <u>30</u> M Ω min between input to output and enclosure.

2.5 Overload Test:

KPTEC

In an ambient temperature of $\underline{25}^{\circ}$ C applies a power source of rated input with the

output load adjusted to 10% of rated output and rated continuously for $\underline{4}$ Hours,

after turning off 60 minutes in normal temperature.

2.6 Humidity Test:

Temperature $\underline{45}^{\circ}$ C, $\underline{90}$ $\underline{-95\%}$ RH for $\underline{4}$ Hours after taken out from oven.

3.0 Mechanical Characteristics

3.1 Strain Relief Test:

Plug or SR, at their 30CM position applied a weight of <u>10</u> lbs, 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 <u>120</u> degree, <u>40 cycle/min</u>, <u>1000</u> 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 $\underline{0^{\circ}C}$ to $\underline{45^{\circ}C}$, $\underline{20\%}$ to $\underline{90\%}$ 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 $\underline{-20^{\circ}C}$ to $\underline{+70^{\circ}C}$ with relative humidity up to $\underline{90\%}$ no condensation.



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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: <u>100g</u> Max.

6.0 Safety & EMC:

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

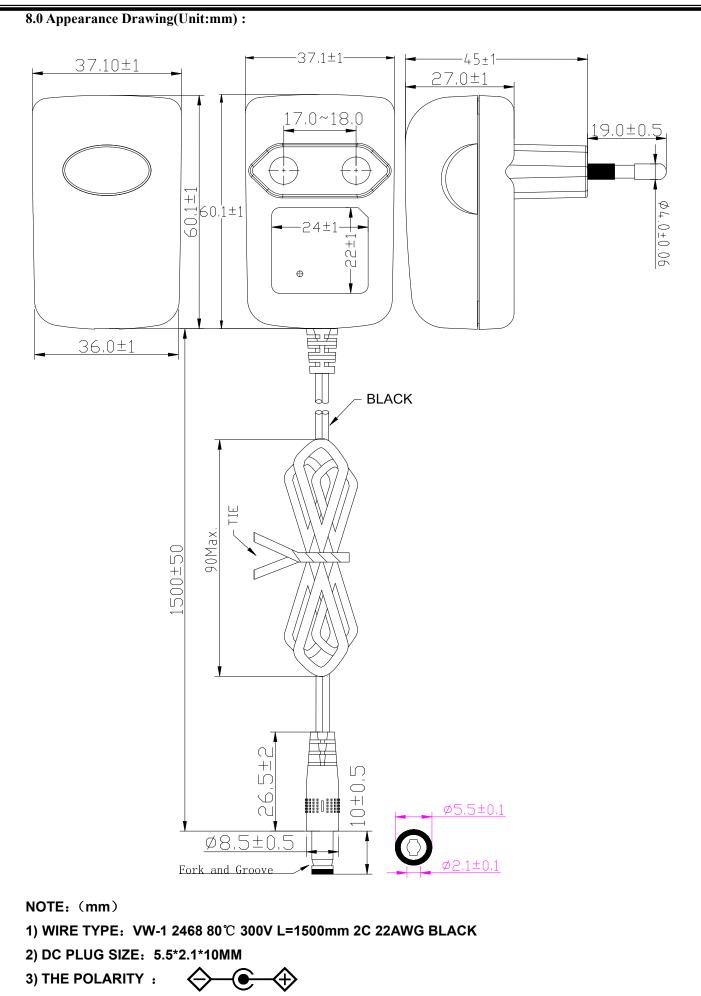
6.2 EMC Standard : EN55032:2015,EN55035:2017

7.0 MTBF:

The design and construction of this power supply shall exhibit a minimun mean time between failure of 35000 hours full rated load operation at 20--25 $^{\circ}$ C.

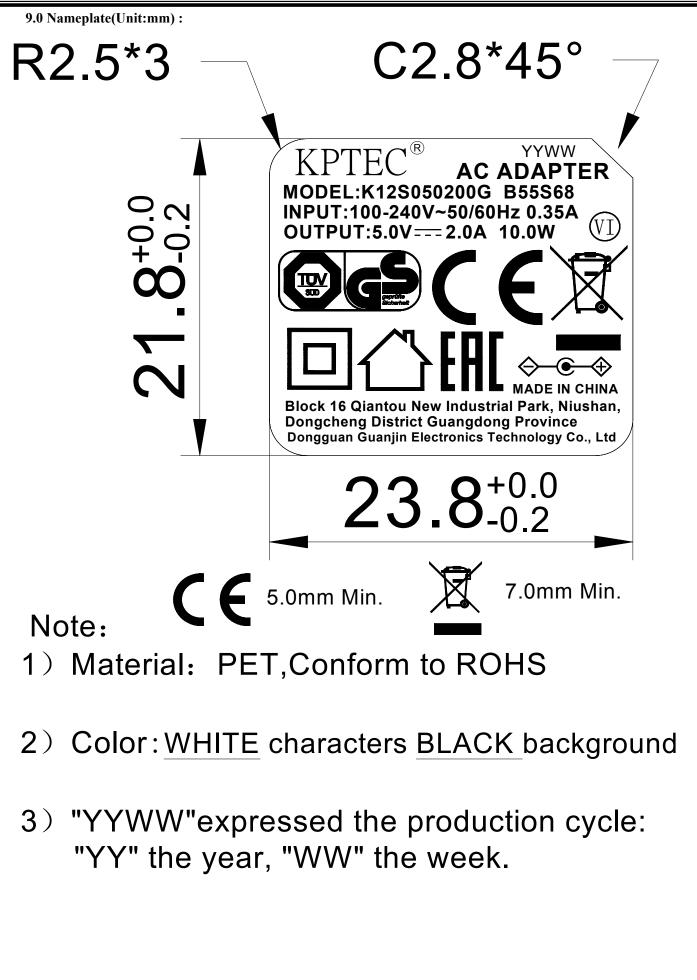


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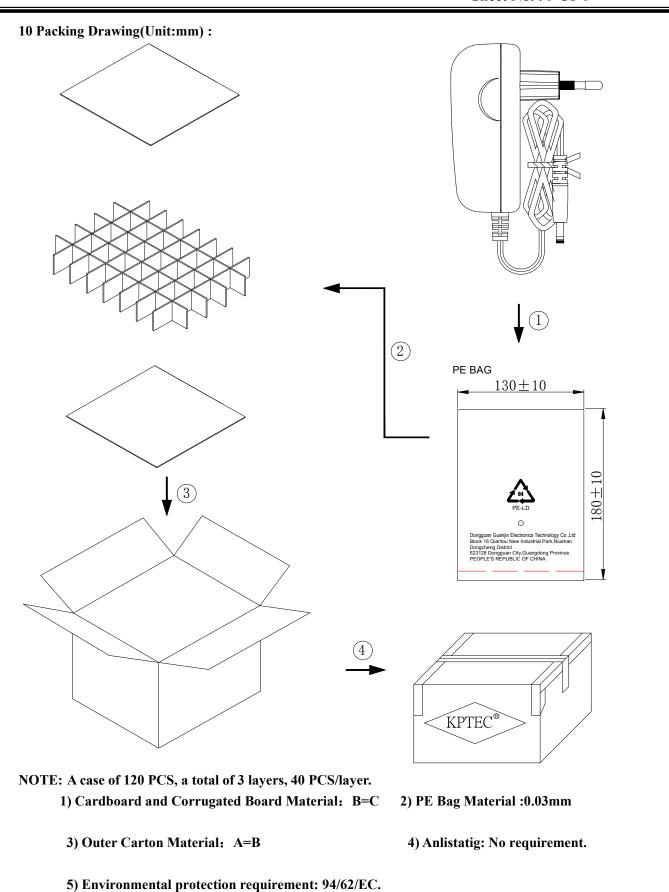


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6) We will select cardboard packing if customer don't specify packing type.

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