FOR MESSRS :

PB-FREE

DOCUMENTATION FOR APPROVAL

PRODUCT	:	**60W Switching Mode Power Supply**
MODEL NAME	:	**TEKA060-1205000**
COSTOMER MODEL NAME	:	

APPROVED	REFERENCE

(PLEASE RETURN ONE OF THESE TO US IMMEDIATELY WITH YOUR SIGNATURE FOR APPROVAL)

KANG JIN CO., LTD

TESTED BY	CHECKED BY	APPROVED BY

CONTENTS OF SPECIFICATION

1. Revision History

DATE	PURPOSE	PAGE	CONTENTS OF ALTERATION

2. SCOPE

ITEM	P/NO	POWER	FRAME
SMPS	TEKA060-1205000	60W	Desk-Top

3 . Electrical Performance

3-1 Input Characteristics

3-1-1 Input Voltage & Frequency

ITEM	Reliable Voltage(AC)	Rated Voltage(AC)	Reliable Frequency	Rated Frequency
SPEC	90~264Vac	100~240Vac	47~63Hz	50/60Hz

3-1-2 Input AC Current

-Input rated Voltage, Output rated load , Input AC Current 1.4A Maximum

- Input rated Voltage , Output no load , Input AC Current 0.06A Maximum

3-1-3 Inrush Current

- Input 264Vac , Output rated load , Maximum cold start
  Inrush Current 80A Peak

3-1-4 NO- Load Loss Power

- Input Rated Voltage, Output no load , Maximum loss Power 0.3Watts

3-1-5 Average Efficiency

- Input 115Vac/230Vac and 100% 75% 50% 25% Rated Load condition
  Average Efficiency (η): 84% MIN

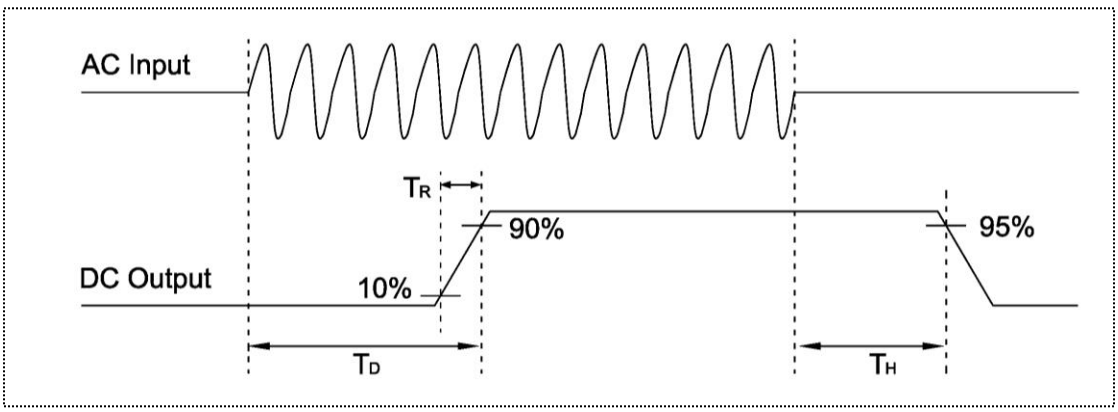
3-2 Output Characteristics

3-2-1 Static Output Voltage & Ripple Current

Output Rated Voltage	Output Voltage Range	Output Current (continuous)	Ripple Current
12V	11.2V~12.8V	0A~5A	300mV P-P

☞ Ripple Current Test

- Measurement is done by 20MHz bandwidth oscilloscope and the output paralleled a 0.1uF ceramic capacitor and a 10uF electrolysis capacitor



3-2-2 Turn-On Delay Time(TD)

- The maximum cold start turn-on delay shall not exceed 3 second at input 100~240VacAnd the rated load condition

3-2-4 Output Rise Time (TR)

- Input 100Vac/230Vac and rated load , The rise time Shall not exceed 100mS That the output voltage rise from 10% to 90% rated voltage

3-2-3 Hold-Up Time(TH)

- The maximum turn-off hold-up time shall be least 10mS at input 115Vac
- The maximum turn-off hold-up time shall be least 20mS at input 230Vac And the rated load condition

3-2-5 Output Overshoot /Under Shoot

- When the power on or off ,Output voltage shall not exceed ± 6%

4 Protection Requirements

4-1 Over Current Protection

- The power supply shall protect itself from any over current condition and shall be self-recovery when the fault condition is removed
- The maximum output current shall be 110%~230% rate output current

4-2 Short Circuit Protection

- Shorting of output will not casus power supply to damage or any safety hazard the power supply shall resume normal operation after the short is removed

5. Environmental Requirements

5-1 Temperature

- Storage Temperature (Non- operating) : - 10 to 60 ℃
- Operating Temperature Limits : 0 to 40 ℃

5-2 Relative Humidity

- Storage Humidity (Non-operating) : 10% to 80% RH(Non-condensing)
- Operating Humidity Limits : 0% to 85% RH (Non-condensing)

5-3 Vibration

- 10 to 300Hz sweep at a constant acceleration of 1.0G(Breadth:3.5mm) for 1Hour for each of the perpendicular axes X,Y,Z

5-4 Drop in

- Height : 1m ; the product should be fell off on the hardwood with the thickness of 20mm , and the hardwood shall be put on the base of cement or on the ground without flexibility , Apply two times on all surface

6. Reliability Requirements

6-1 Burn- In Test

Load Condition	100% LOAD , 40℃ ±5℃
Input Voltage	100~240Vac
Test Time	4 Hours

6-2 Life / Power on Hours

- The Power Supply must be designed to operate more than 10,000 Hours (about 1 year for 24-hour -operating a day) at an ambient temperature of 25℃ And Full load condition

☞ For more long operation recommend using below 80% of max load

7. EMI Standards

AS/NZS CISPR 22:2009

EN 55022:20006 + A1:2007

FCC Par15

8. Safety Standards

8-1 Regulatory Standards

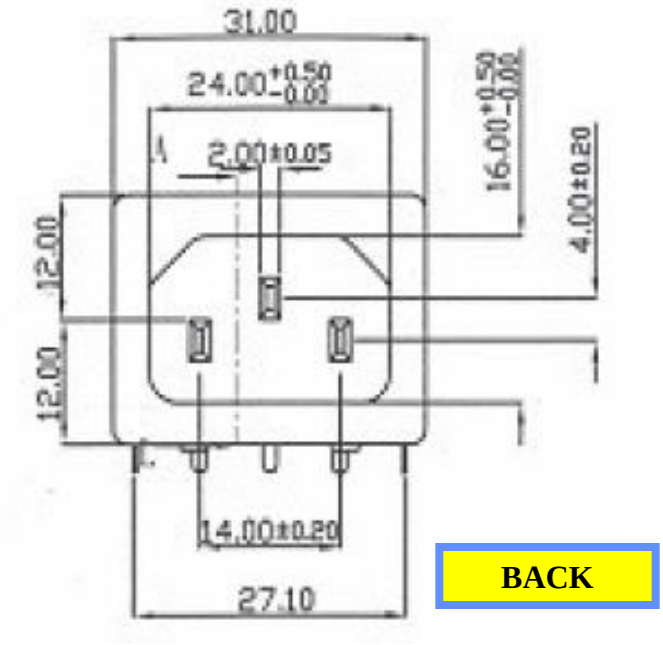
TYPE	Country	Standard	Status
CE	Europe	60950	PASS
UL	United States	60950	PASS
KC	Korea	60950	PASS

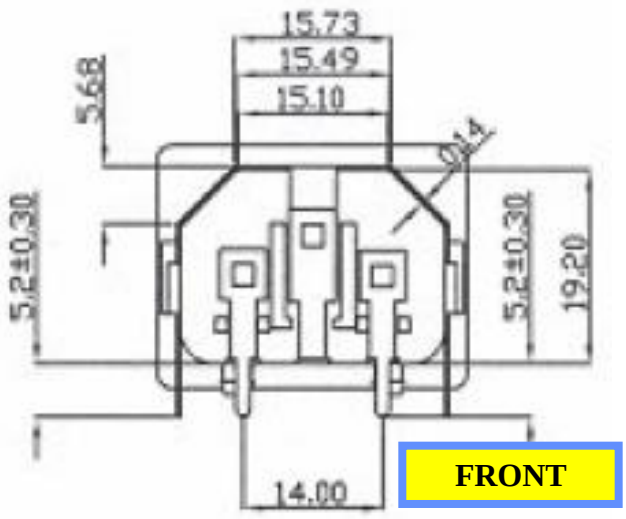
8-2 Hi-pot

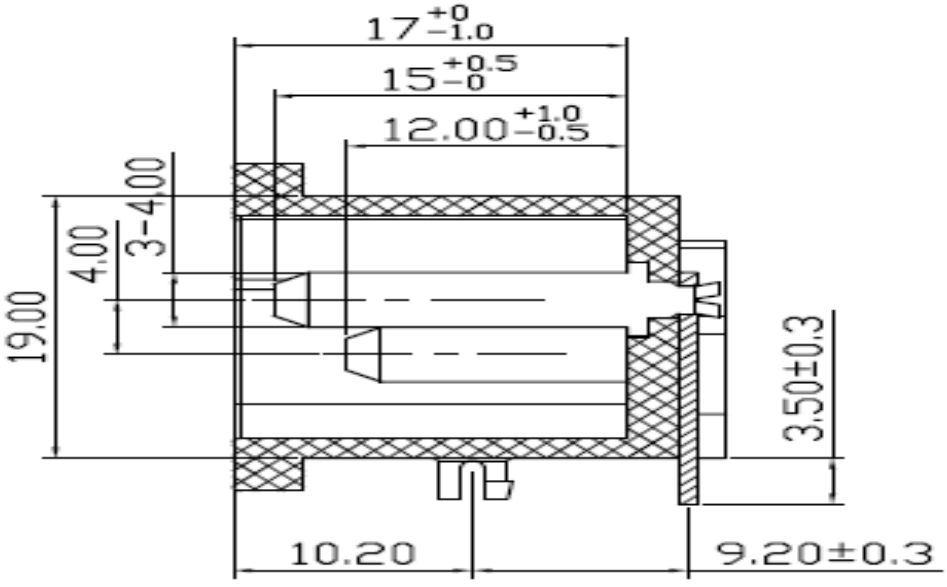
- The leakage(Cutoff) current :10mA
- Primary to Secondary : 1.5KVac 50Hz , 1 minute
- Mass Production : 1.8KVac 50Hz , 2 seconds at Primary to GND

9. Connection

9-1. AC Socket And AC Plug (3 Pin AC Socket)





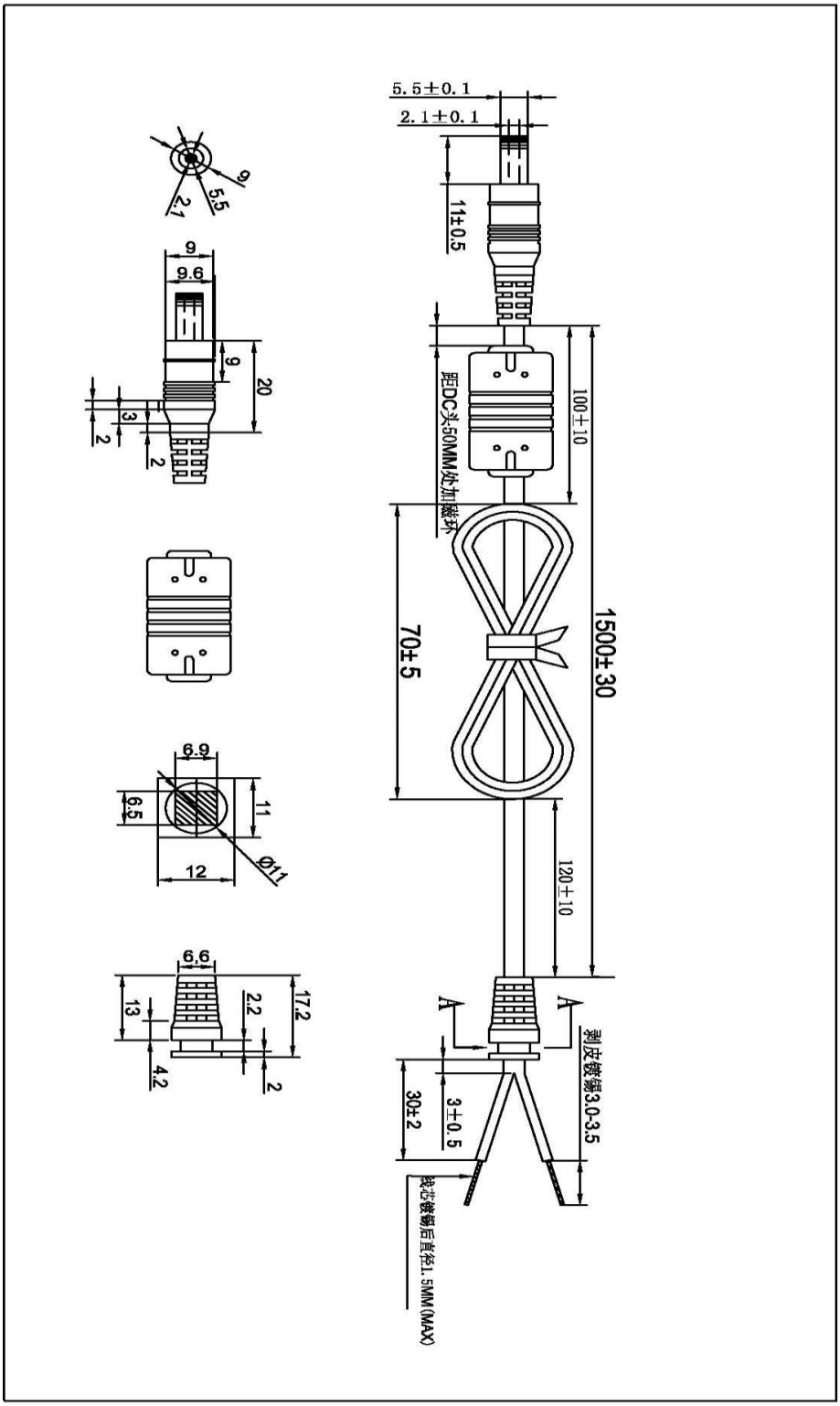


SIDE

UNIT :mm

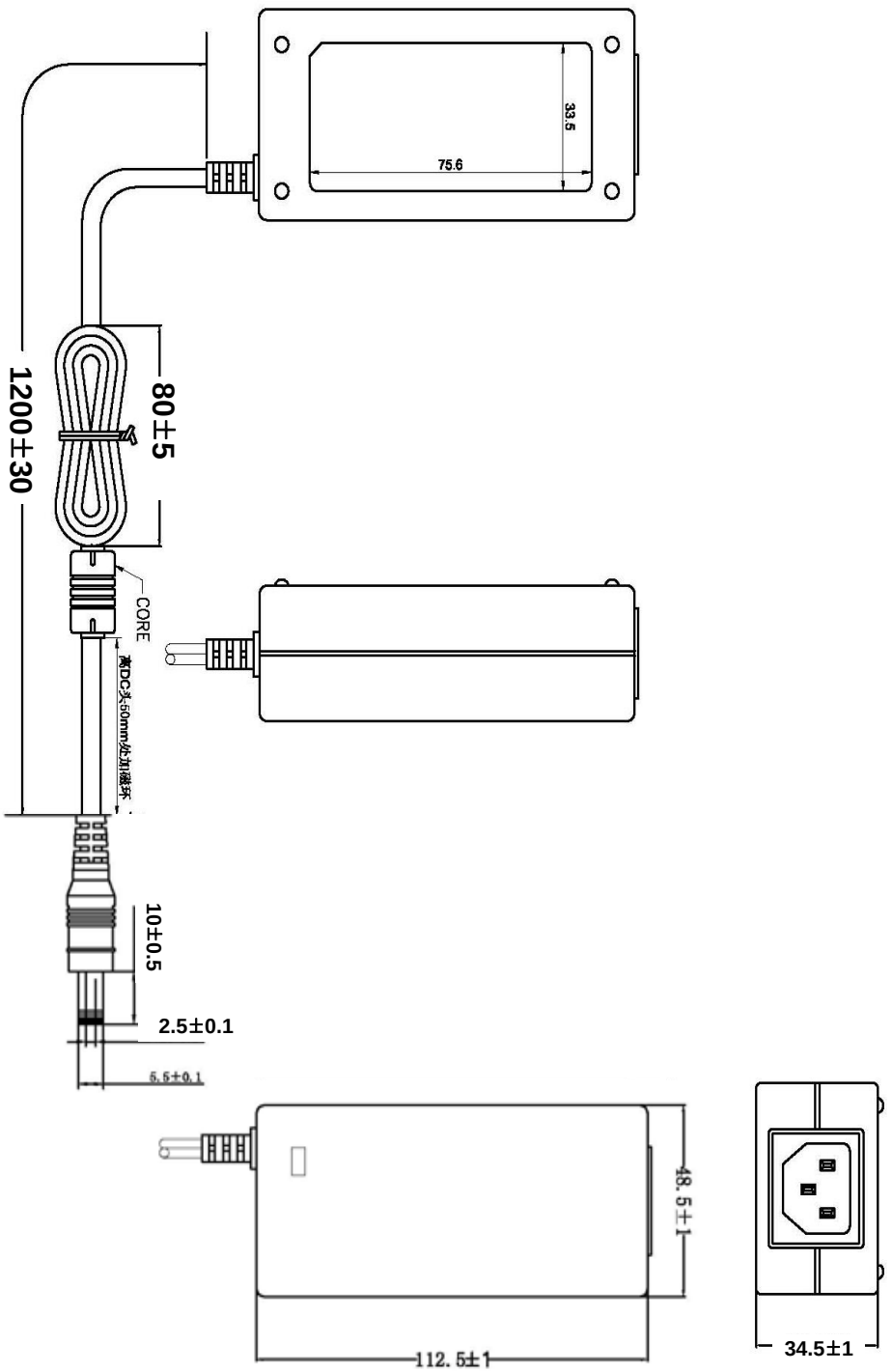
9-2 OUTPUT CONNECTOR

- 2.5 ¢ DC JACK (Inner Diameter)

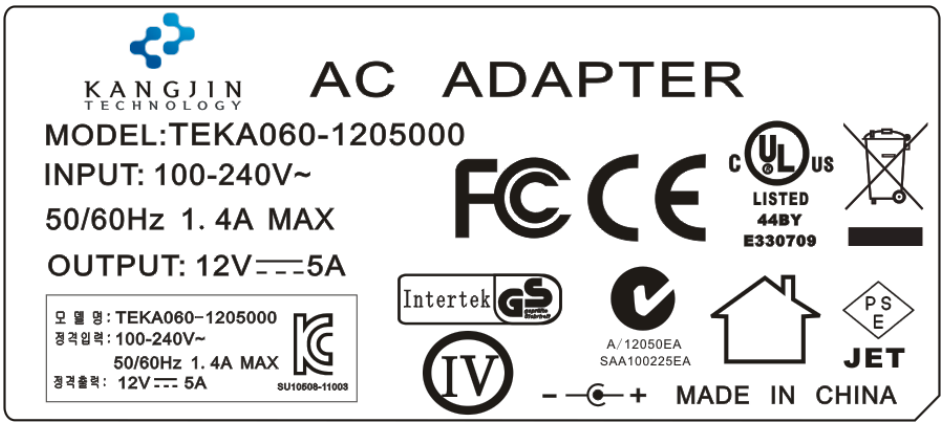


10. Mechanical Drawing

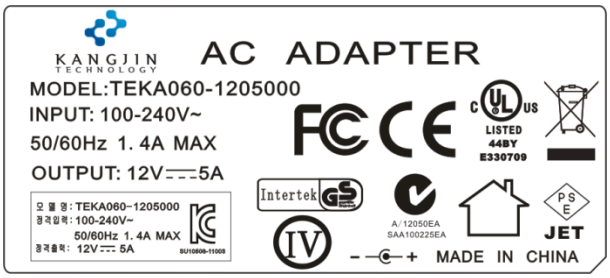
- 112.5(L)* 48.5(W)*34.5(H)mm



11. Nameplate Drawing



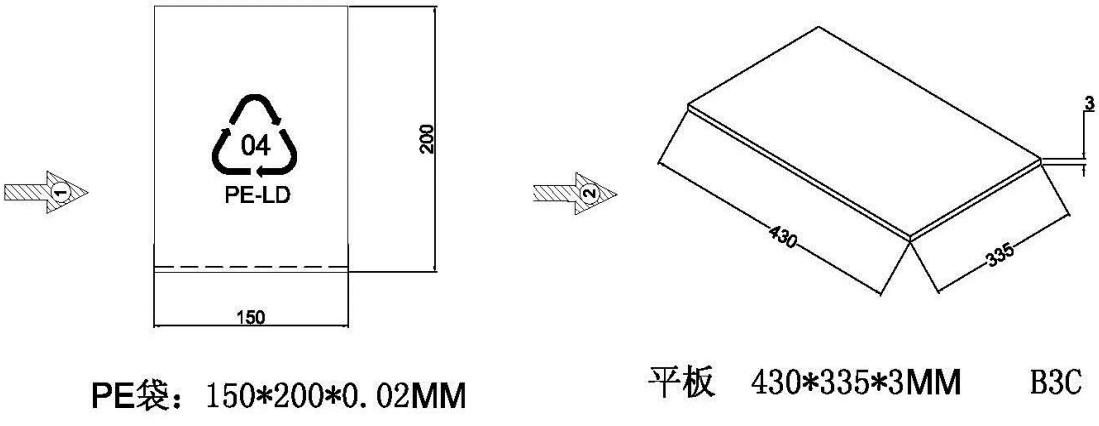
SIZE :75.5*33.5*0.3MM
Tolerance : + − 0.1mm



NOTE:

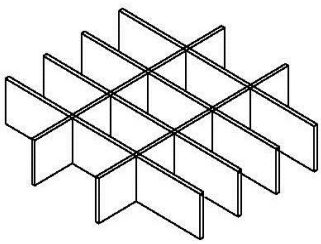
Material : PVC+MYLAR FILM

12. PACKING

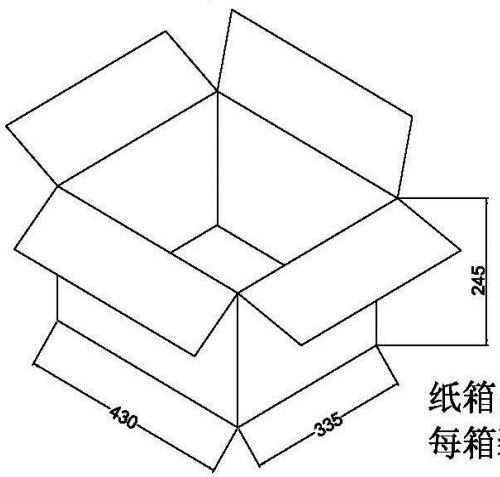


PE袋：150*200*0.02MM

平板 430*335*3MM B3C



刀卡1：（63*5+20）335*56mm
4刀卡 B=B
刀卡2：（138*3+15）429*56mm
2刀卡 B=B



纸箱：430*335*245MM A=B 普通；
每箱装4层，5块平板；

BOX SIZE & Quantity
SIZE： 430(L)*335(W)*245(H)mm
Quantity : 15*4=60EA