

SPECIFICATION FOR APPROVAL

Switching power Supply

CUSTOMER:_____

DESCRIPTION: Input:100~240V AC 50/60Hz Output:24VDC 5A

OUR MODEL NO:_____ **FY2405000**

SAMPLE NO:_____

DATE:_____ **2010-01-04**

SAMPLE COLOR:Black ☐

White ☐

APPROVAL SIGNATURE		
APPROVED BY	CHECKED BY	TESTED BY

Manufacturer		
SALES	APPROVED BY	DESIGNED BY

Kysan Electronics

Kysan Electronics	Our model: FY2405000
	Customer:
	Date:2010.01.04
	SAMPLE No:

Rev. List			
Rev.	Date	Description	Design
A0	2010.06.12	New Rev.	Ling ling hui

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1、 DESCRIPTION: The purpose of the document is to specify the functional requirements of a <u>120W</u> switching power supply. 2、 INPUT CHARACTERISTICS: 2.1 Input Voltage: Rated Voltage:100~240Vac Variation Range:90-264Vac 2.2 Input Frequency: Rated Frequency: 50/60Hz. Variation Frequency:47-63Hz 2.3 Input Current: <u>2.5</u>Amps max At any input voltage and rated, DC output rated load. 2.4 Inrush Current: 60 Amps Max. Cold start at 240Vac input, with rated load and 25℃ ambient. 2.5 Ac Leakage Current: <u>0.25</u>mA Max.At240Vac input.	

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3、OUTPUT CHARACTERISTICS:

3.1 Power output

Voltage	Min. Load	Rated. Load	Peak	Output power
24Vdc	0.00A	5A	164W	120W

3.2 Combined Load/Line Regulation

Voltage	Min. Load	Rated. Load	Line Regulation	Load Regulation
24Vdc	0.00A	5A	±2%	±5%

3.3 Ripple and Noise:

Under nominal voltage and nominal load,the ripple and noise are as follows when measure with Max.Bandwidth of 20MHz and Parallel 47uF/0.1uF,crossed connected at testing point.

<u>Voltage</u>	<u>Ripple and Noise(Max.)</u>
<u>+24Vdc</u>	<u>120mV p-p</u>

3.4 Turn on delay time:

3Second Max.at 115Vac input and output Max.load.

3.5 Rise time:

40 mS Max.at 115Vac input and output Max load.

3.6 Hold up time:

5 mS Min.at 115Vac input and output Max.Load.

3.7 Efficiency:

80% Min, At 115/230Vac input voltage,1/4, 1/2, 3/4 and full load calculation average efficiency.

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4、PROTECTION FUNCTION: 4.1 Short circuit test: The power supply will be auto recovered when short circuit faults remove. 4.2 Over current Protection: The power supply will be auto recovered when over current faults remove. 4.3 Over Voltage Protection: The power supply will auto recovered when faults remove 120%~170%. 5、ENVIRONMENTAL REQUIREMET: 5.1 Operating Temperature: 0℃ to 40℃,Full load, Normal operation. 5.2 Storage Temperature:-20℃ to 80℃ With package 5.3 Relative Humidity: 5%(0℃)~90%(40℃)RH,72Hrs,Full load, Normal operating. 5.4 Vibration: Operating: IEC 721-3-3 3M3 5~9Hz,A=1.5mm (9~200Hz,Acceleration 5m/S2) 2.Transportation: IEC 721-3-2 2M2 5-9Hz,A=3.5mm 9~200Hz, Acceleration=5m/S2 200~500Hz, Acceleration=15m/S2	

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3. Axes,10 cycles per axis. No permanent damage may occur during testing. The SAMPLE has to restore to its original situation after power off/on.. 5.5 Dropping Packed: 1M for wallmount type and 760mm for desktop type as above described. The horizontal surface consists of hardwood at least 13mm thick, mounted on two layers of plywood each 19mm to 20mm thick,all supported on a concrete or equivalent non-resilient floor. 6、SAFETY REQUIREMENT: 6.1 Safety: accord with UL/CUL-(UL60950-1),TUV/GS-(EN60950-1),CCC-(GB4943) , PSE- (J60950-1),EK-(K60950-1) 6.2 DIELECTRIC STRENGTH Hi-Pot: Primary to secondary:1800Vac10mA/3S for type test. 6.3 Insulation resistance: Primary to secondary:10MΩ min at 500V DC. 6.4 EMI STANDARD Meets the Limits of <1>.Fcc part15 class B rules <2>.EN55022 class B rules <3>.GB9254-1998,GB17625.1-2003	

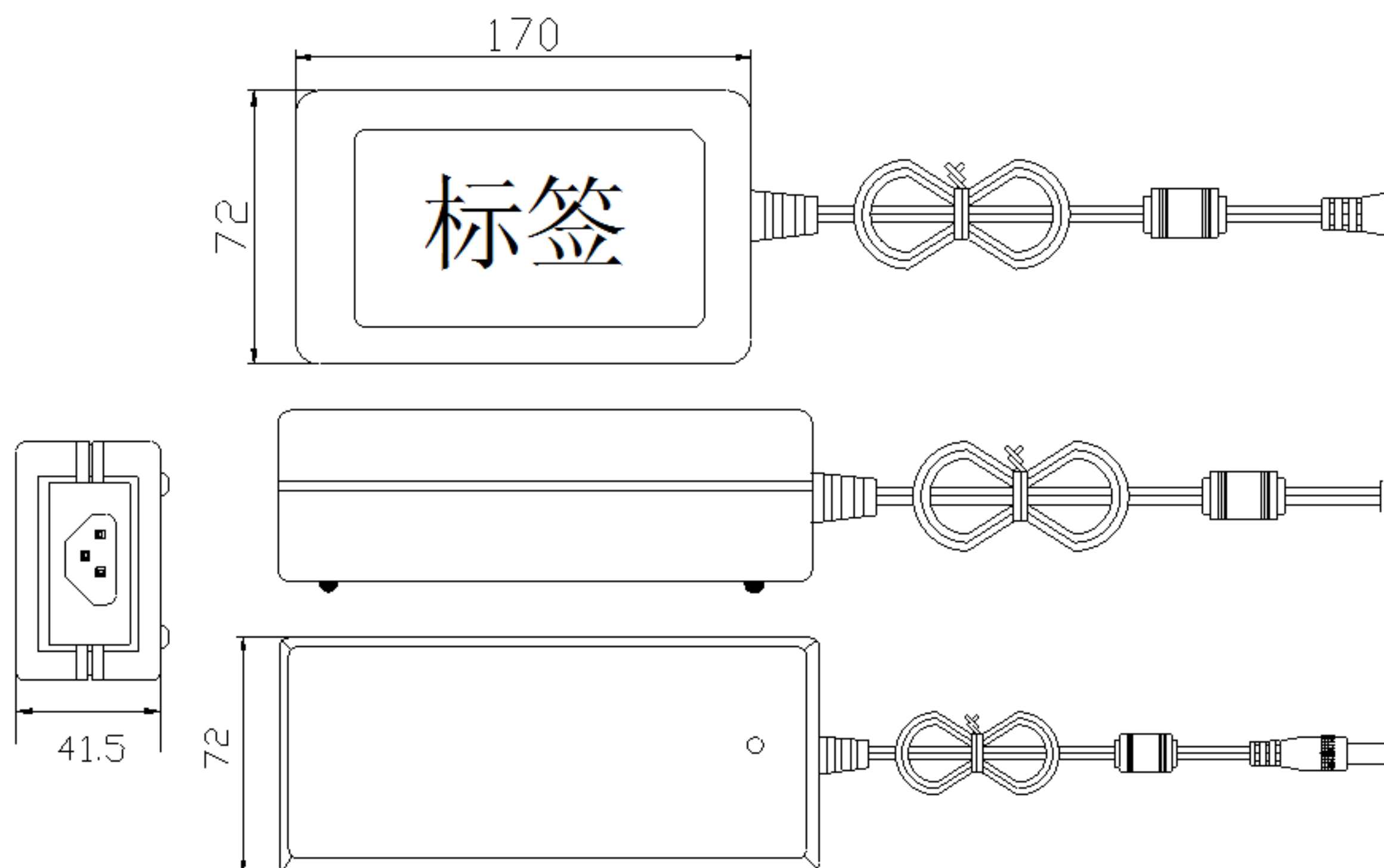
7、 MECHANICAL REQUIREMENT:

7.1 Enclosure:

The power supply size: L170 x W72x H41.5mm;

7.2 Input Connector:

IEC-320-C14.



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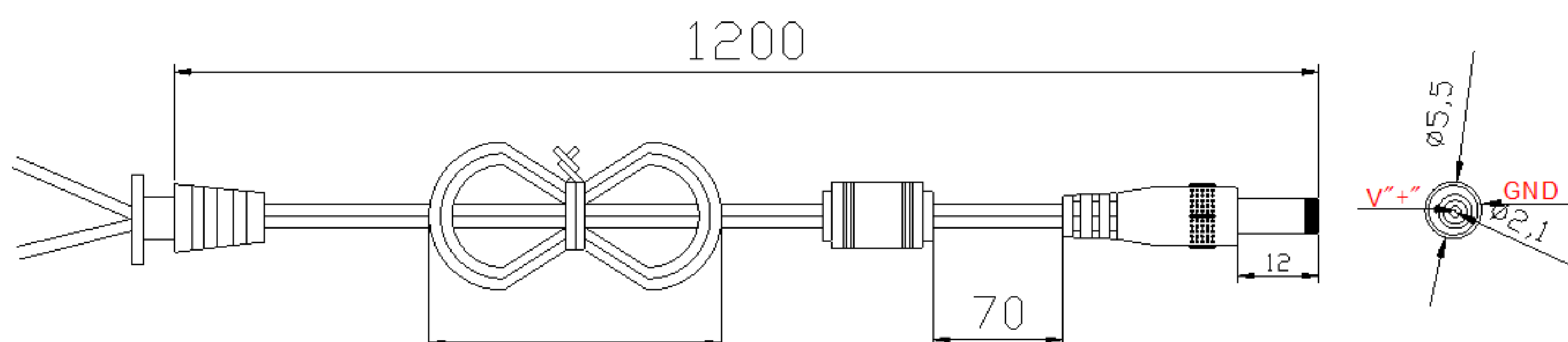
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8、CORD



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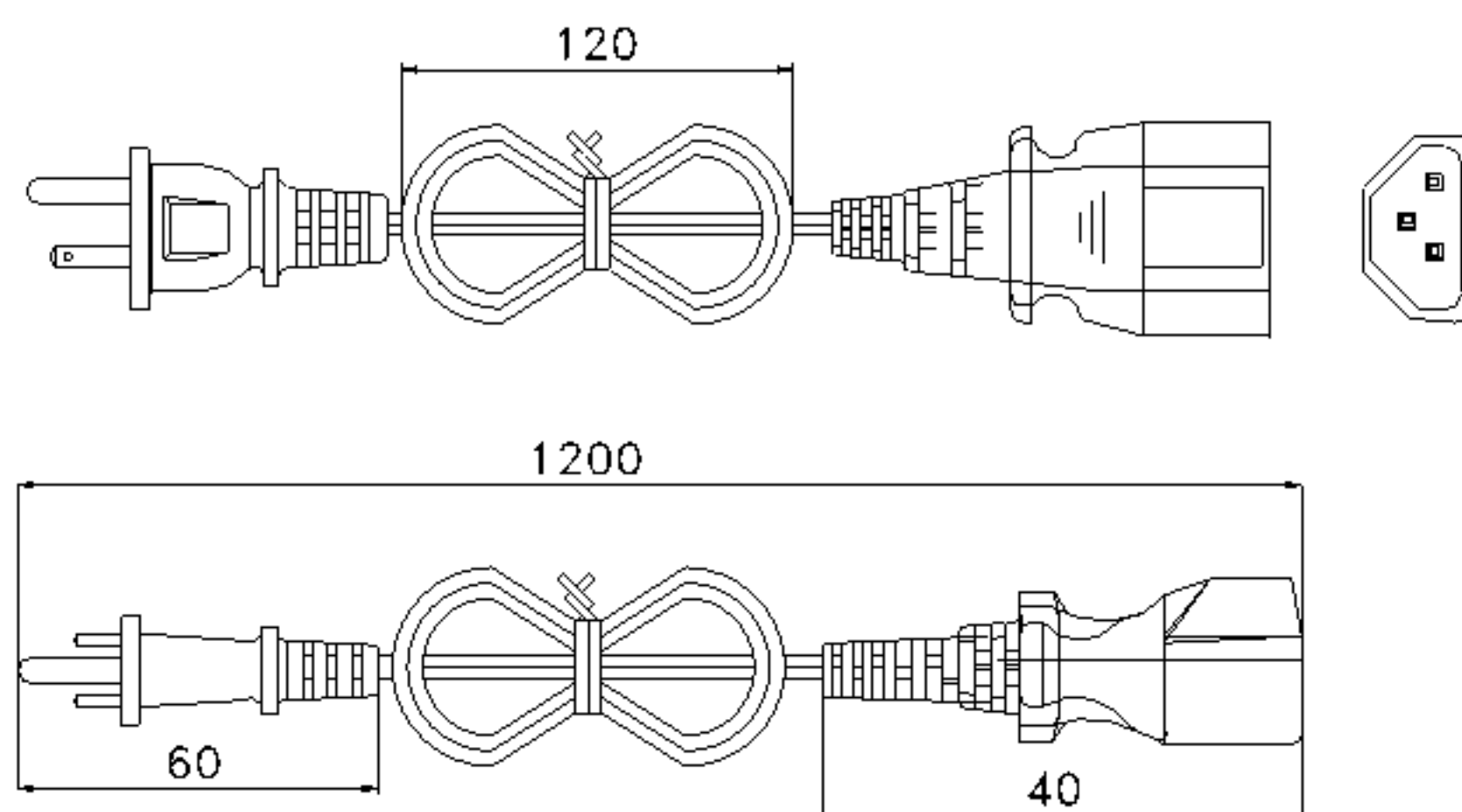
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8、CORD



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SAMPLE No:

9、 LABEL:

AC/DC ADAPTER

MODEL : FY240500
INPUT : 100-240V ~
50-60Hz
OUTPUT : 24V==5A


WARNING
FOR INDOOR USE ONLY 

**DO NOT REMOVE THIS COVER TRAINED SERVICE PERSONAL ONLY.NO COMPONENTSINSIDE**


LISTED
E304160


UL
RECOGNIZED


UL


FCC


UL


ROHS


CE


UL

MADE IN CHINA

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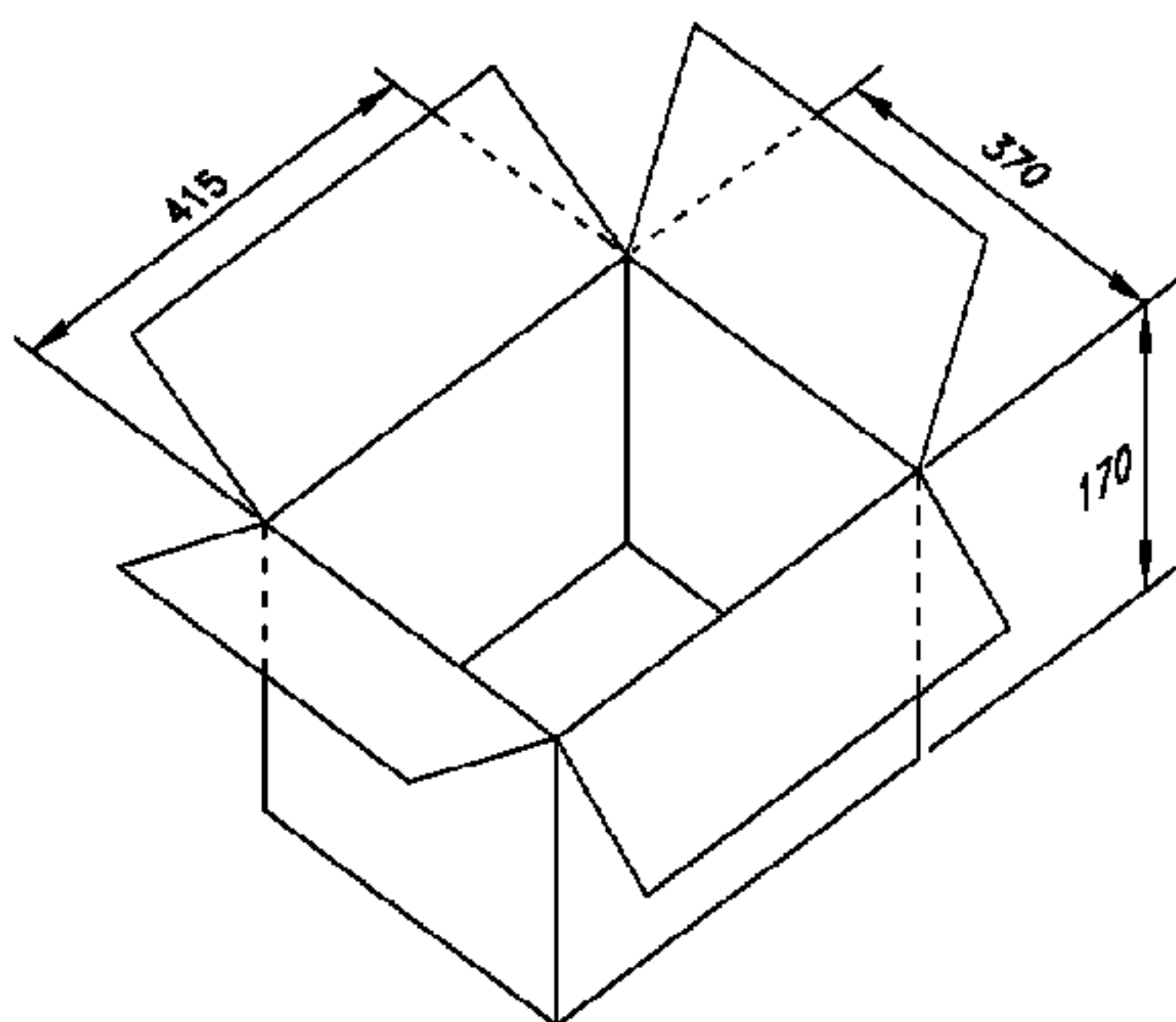
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10、PACKING:



备注:

1.纸箱材质为A=B

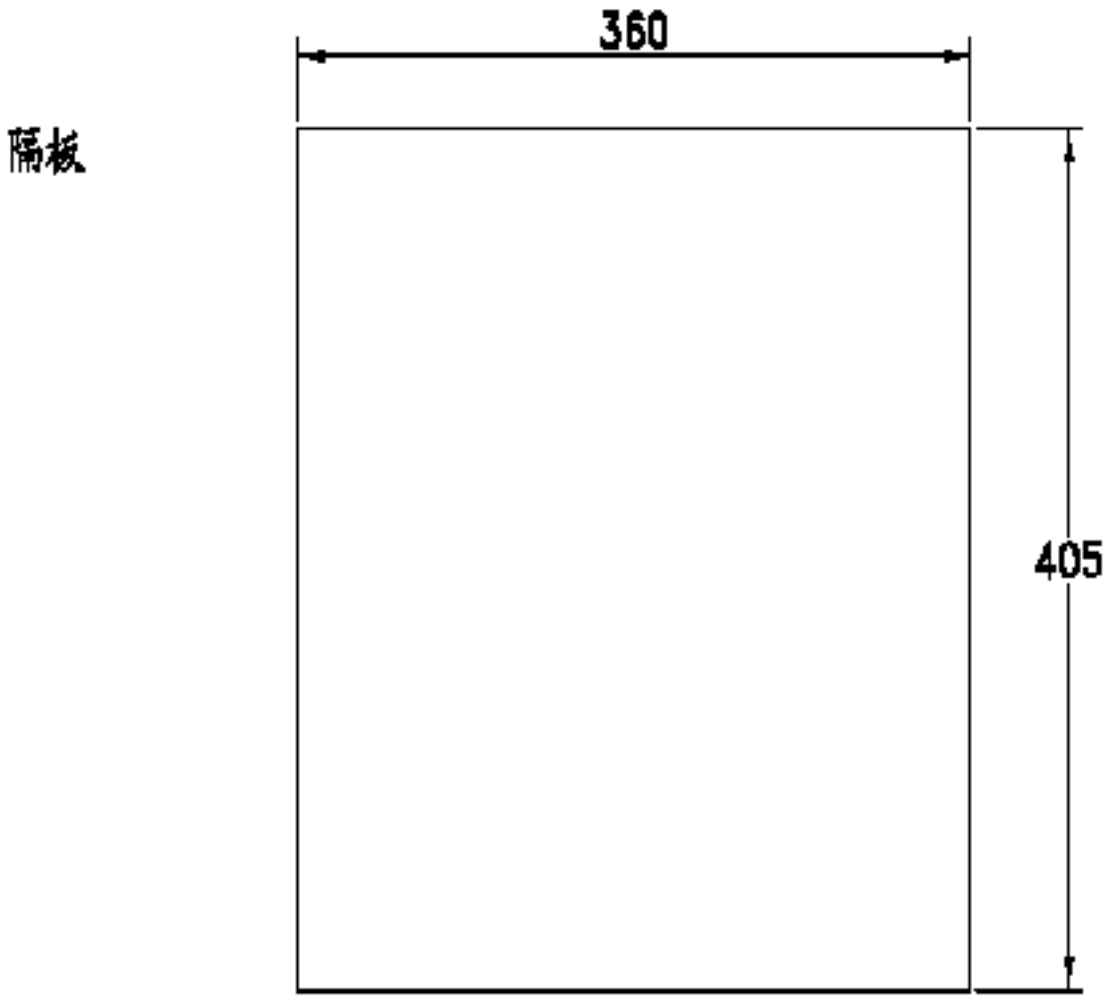
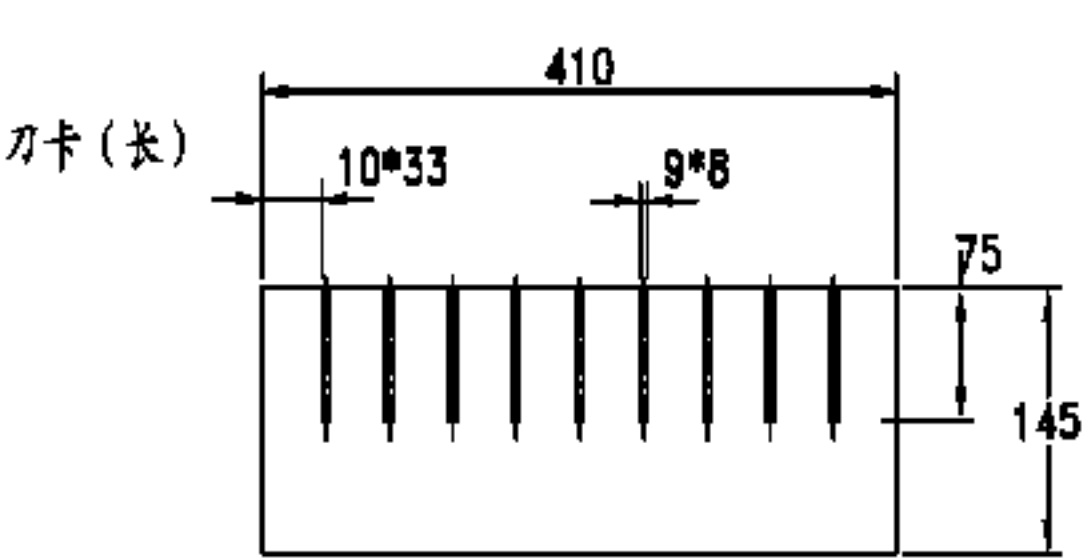
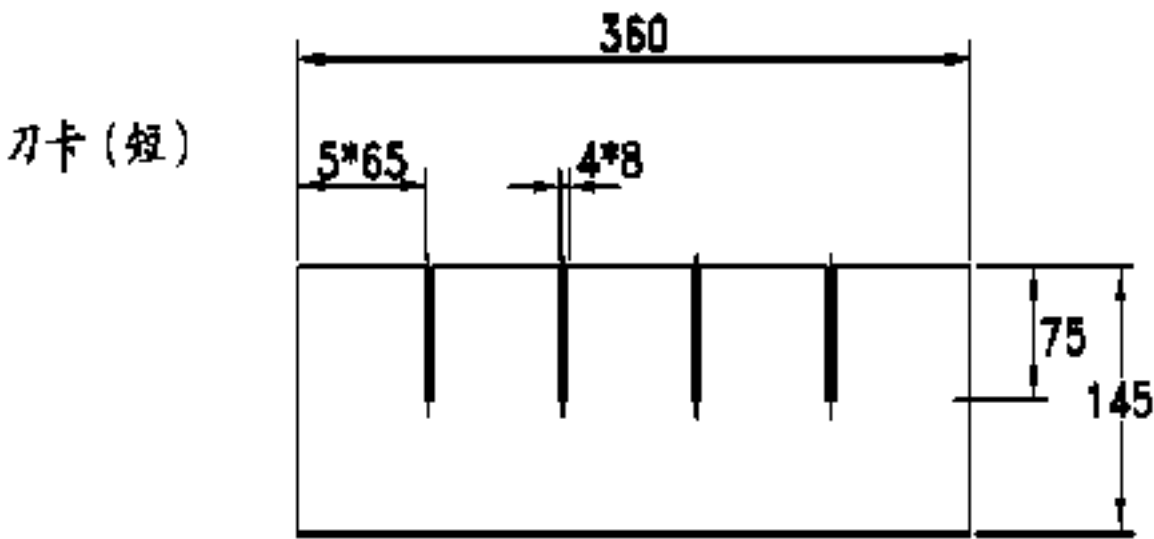
抗张力14公斤/cm²

2.外箱尺寸为外部尺寸,公差为: +5,-0.

3.装箱方式: 以50pcs为一层, 共装一层, 共计
50PCS/箱

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- 备注:
- 1.刀卡 (长) 410*130*5mm 内径33mm 9刀口
刀口内径=5mm
 - 2.刀卡 (短) 360*145*5mm 内径65mm 4刀口
刀口内径=5mm
 - 3.隔板 405*360*5mm B=B

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11、 ELECTRICAL TEST REPORT:

No	Test item	Test condition	Standard spec	Test data					Unit	Judge
				1	2	3	4	5		Pass/ Fail
1	Output Voltage	Vin100Vac 60Hz Io=0	±5%	24.38					V	Pass
2	Output Voltage	Vin100Vac 60Hz Io=Rated Current	±5%	23.75					V	Pass
3	Average Efficiency	Vin 115Vac 60Hz	80%	81%					%	Pass
4	Ripple&Noise mVp-p	Vin100Vac 60Hz Full load	120mVp-p	70					mVp-p	Pass
5	Line Regulation	Vin=100V~240V Io=Rated Current	±2%	0.0%						Pass
6	Standby Power	Vin 115Vac 60Hz Io=0	1Wmax	0.38					W	Pass
7	Short circuit test	Vin100Vac 60Hz	No odor smoke fire plastic deformation and excessive heat happen.	OK						Pass
8	OCP	Vin100Vac 60Hz		5.2					A	
9	Output Voltage	Vin240Vac 50Hz Io=0	±5%	24.35					V	Pass
10	Output Voltage	Vin240Vac 50Hz Io=Rated Current	±5%	23.70					V	Pass
11	Average Efficiency	Vin230Vac 50Hz	80%	82.6					%	Pass
12	Ripple & Noise mVp-p	Vin240Vac 50Hz Full load	120mVp-p	72					mVp-p	Pass
13	Line Regulation	Vin=100V~240V Io=Rated Current	±2%	0.0%						Pass
14	Standby Power	Vin230Vac 50Hz Io=0	1Wmax	0.47						Pass
15	Short circuit test	Vin240Vac 50Hz	No odor smoke fire plastic deformation and excessive heat happen.	OK						Pass
16	OCP	Vin230Vac 50Hz		5.5					A	
17	Hi-pot test	/DIELECTRIC STRENGTH Hi-Pot: /Primary to secondary:1800VAc/10mA/3S for type test		OK						Pass
18	Burn in	Input:220Vac/50Hz Full Load 4hrs		OK						Pass
19	Drop test	Heigh:1m Three*fes(once on each plane)		OK						Pass
REMARK										

