



IDEAL POWER LTD

SPECIFICATION FOR APPROVAL

CUSTOMER : 01097 REV.00
ARTICLE: SWITCHING MODE POWER SUPPLY
STANDARD : CE
MODEL NO. : DYS618-120150W-3
OUR PART NO.: DYS618-120150-16423B(A1)
YOUR PART NO.:
INPUT : 100-240V AC 50/60Hz
OUTPUT: 12.0V DC 1.5A

供应商确认			客户确认		
Made by	Checked by	Approved by	Made by	Checked by	Approved by
赵柳	章广	宾成			

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SPECIFICATION

Model No.: DYS618-120150W-3

REV.00

Date: 2017/03/16

CONTENTS

1. Record of Revision:	3
2. Descriptions:	4
3. Input Feature:	4
4. Output Feature:	4-5
5. Protection Feature:	5
6. Safety Standards:	6
7. Reliability:	6
8. Mechanical Specifications:	6
9. Environmental Conditions:	7
10. Main Measurement Equipments:	7
11. Case Drawing:	8
12. DC Cable Drawing:	9
13. Label Drawing:	10
14. Package Drawing:	11

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1. Record of Revision:

REVISION	DESCRIPTIONS OF CHANGE	DATE	Operator
REV.00	New document	2017/03/16	赵柳

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2. Descriptions:

These are a series of general purpose AC/DC adapters which convert 100Vac ~ 240Vac to a stabilized DC voltage of 12.0V with rated output current of 1500mA Please turn on the power first and then add the load when using this SMPS.

The switching mode power supply meets the requirements of lead free and RoHS.

3. Input Feature:

3.1 Input Voltage and Frequency

The switching mode power supply shall meet all specifications when powered from the following sources.

Rating Voltage	Line Frequency	Minimum Voltage	Maximum Voltage
100-240V AC	50/60Hz	90V AC	264V AC

3.2 Efficiency

The minimum efficiency shall be 85.00% under 115Vac/230Vac input and output full load.

3.3 Input Current

The maximum input current shall be less than 0.5A.

3.4 Input In-rush Current

Peak inrush current shall be limited to 80A.

3.5 Input Leakage Current

The leakage current shall not exceed 0.25mA.

4. Output Feature:

4.1 Output Voltage and Current

The switching mode power supply shall have one regulated DC output voltage: 12.0V DC. The table below defines the total regulation banding for the output, which includes line regulation, load regulation, transient response, and effects due to environmental conditions. Voltage shall be measured at its output connector.

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Output	Output Current Range		Output Voltage Range		Ripple & Noise
	Min	Max	Min	Max	Max.
+12.0V	0.0A	1.5A	11.4V	12.6V	150mVpp

Ripple & Noise Test: Add 0.1uF/50V ceramic capacitor and 10uF/50V aluminum electrolytic capacitor across the output terminal. Measured with 20MHz Bandwidth Oscilloscope.

4.2 Dynamic Response

The load current of the output is changed between 20% and 80% under full load at 0.25A/us; the excursion of the output shall not exceed 10% of the nominal output voltage. The output voltage shall be within 10% of the steady state voltage in 1ms.

4.3 Startup and Turn- on Delay

The switching mode power supply shall be able to start up into a resistive load up to the maximum rated current with maximum load capacitance of 1,000uF. The elapsed time between the application of input power and the attainment of output voltage to the nominal value shall not exceed 3 seconds.

5. Protection Feature:

5.1 Over-Current Protection

The switching mode power supply shall withstand a continuous over current without damage. It may be applied before power-up, or after power-up. The switching mode power supply shall perform normally again after over current removed.

5.2 Short Circuit Protection

Short circuit will not cause switching mode power supply to damage, or any safety hazards. It shall perform normally again after it is removed.

6. Safety Standards:

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6.1 Safety

The switching mode power supply has approved by the following safety standards:

*EN60950

6.2 Dielectric Strength (HI-POT)

Input to Output Terminal: 4242Vdc 3Sec \leq 5mA.

Input to Case: 4242Vdc 3Sec \leq 5mA.

When DC voltage of 4.24KV is applied, and the voltage applied to the insulation under test, it gradually rises from zero to the prescribed voltage in 1s, and holds at the value for 3s among the input, output and housing, the current sensitivity shall be less than 5mA, after the test, the switching mode power supply shall exhibit no electrical and mechanical abnormalities.

7. Reliability:

7.1 Burn-in

The burn-in test will be performed at least 4 hours at 25 degrees centigrade under full load.

7.2 MTBF

When the operation is complying with this specification, the MTBF of switching mode power supply will be 25K hours at 25 °C.

8. Mechanical Specifications:

Weight:	About 94.6g
Dimensions:	Refer Outline on page 8
Input socket:	BS PLUG.
Output cord:	DCD1738, 22AWG UL2468, 1.5M Black
Output Connector:	Lead O/P~OD: 5.5mm, ID: 2.1mm, Length: 12.0mm (H).

9. Environmental Conditions:

6 of 11

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The switching mode power supply shall meet all requirements of this specification on any combination of operation ambient conditions and after exposure to any combination of non-operation ambient conditions specified in this section.

9.1 Temperature

Operating Temperature: 0°C~40°C

Storage Temperature: -20°C ~ 80°C

9.2 Humidity

Operating Humidity: 10%~90%(non condensing)

Relative Humidity: 5%~95% (non condensing)

10. Main Measurement Equipments:

- A. AC Source: YOKOGAWA JL-1005A-500W
- B. Power Meter: Everfine YF9901
- C. Electronic Load: Yokogawa IT8511
- D. Oscilloscope: Matrix Mos-620CH 20MHZ
- E. Digital Multimeter: Victor Vc890D
- F. DC Power: RS1305DN
- .G. HI-POT Tester: CHANGSHENG CS2670
- H. Insulation Resistance Tester: TRANST TR7122

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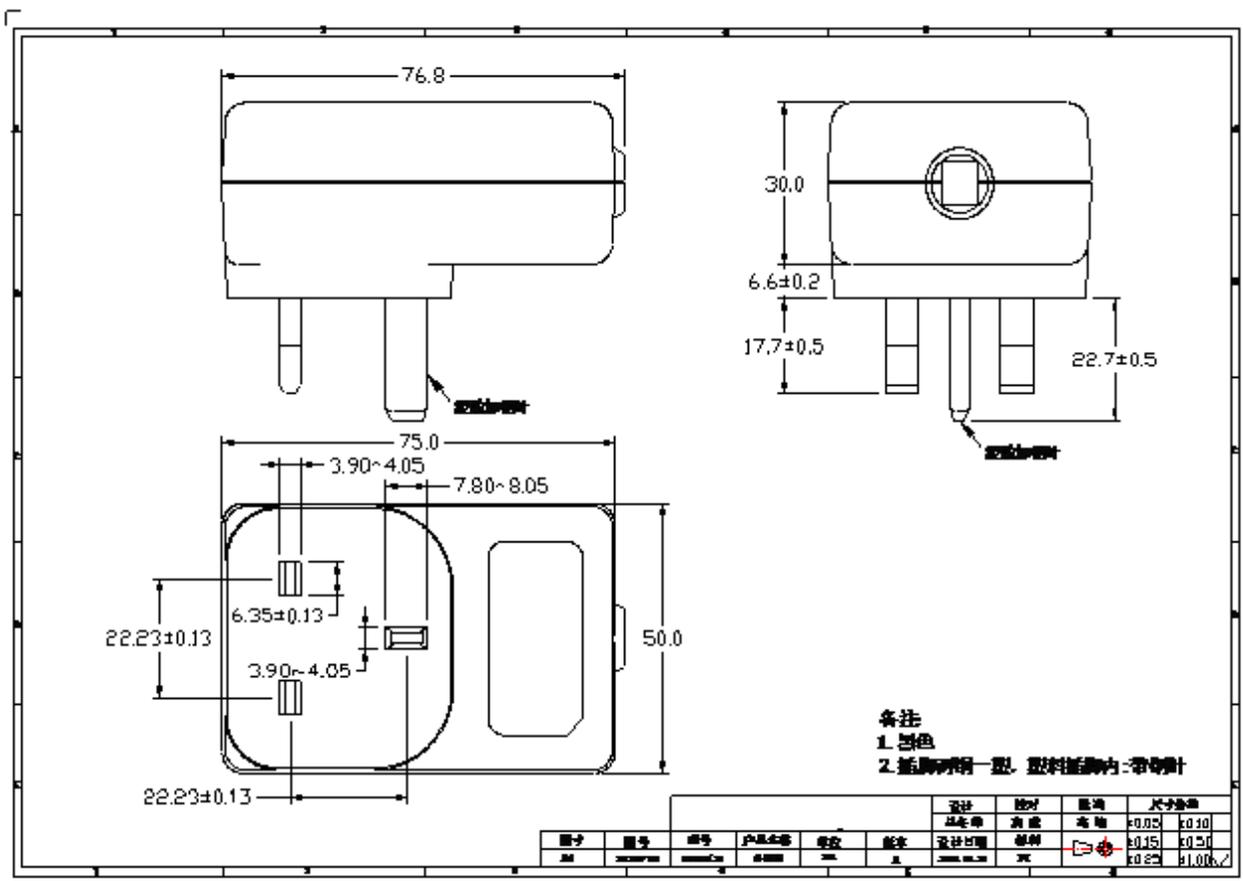
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11. Case Drawing:



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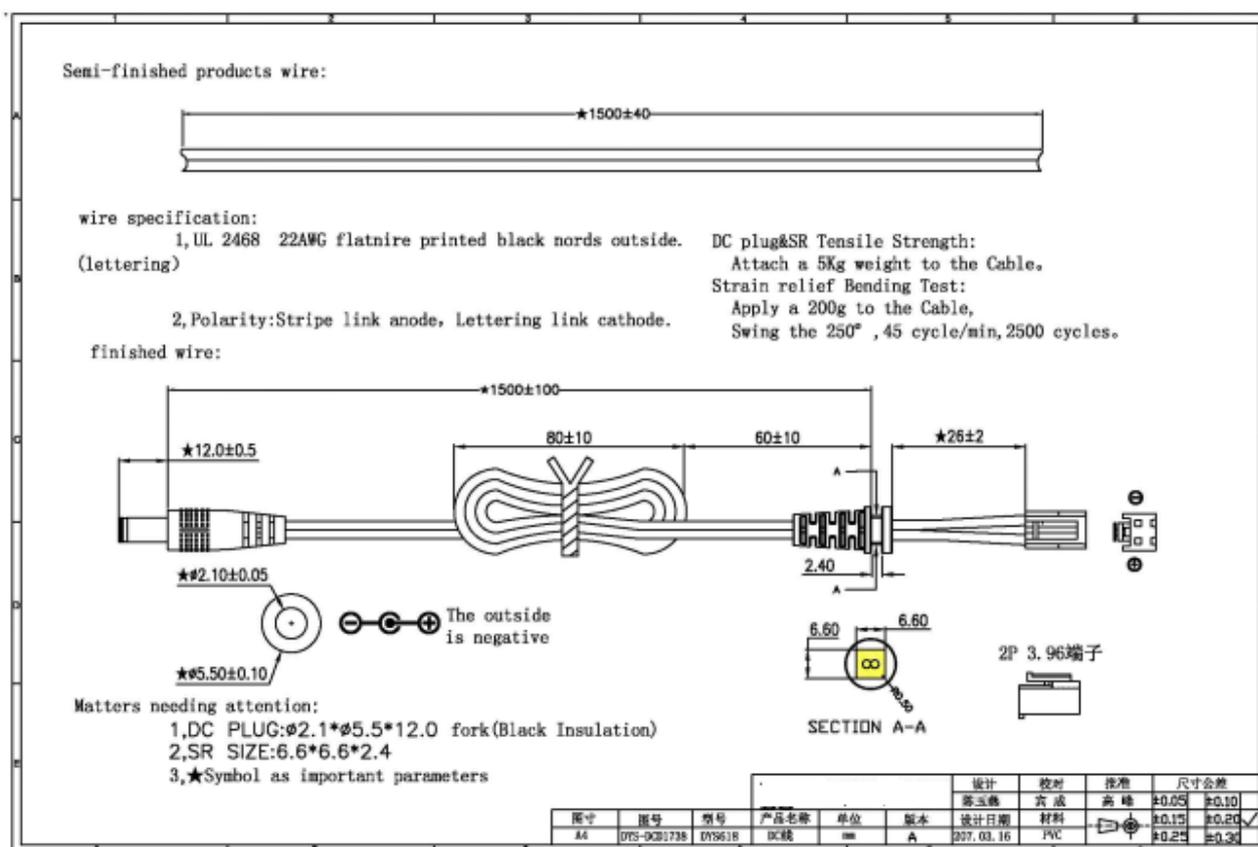
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12. DC Cable Drawing:



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13. Label Drawing:

	1	2	3	4	5	6																														
A						A																														
B						B																														
C	<p>注：</p> <p>版面为银底黑字</p> <p>材质为消银龙 耐温85℃</p> <p>厚度为0.25±0.01</p> <p>符合无铅标准</p>					C																														
D	<p>★ 1716其中17代表多少周，16代表年份，此日期需随着生产周期的变动而变动，如有特殊请以业务通知为准</p>					D																														
E	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">名称：铭牌</td> <td>REV: A</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">图号：DYS618-120150-16423B</td> <td>型号：DYS618-120150W-3</td> <td>页号：6</td> <td>图寸：A4</td> </tr> <tr> <td>尺寸公差</td> <td>比例</td> <td>绘图</td> <td>校对</td> <td>批准</td> </tr> <tr> <td>±0.05</td> <td>±0.10</td> <td>单位</td> <td>MM</td> <td>赵柳</td> </tr> <tr> <td>±0.15</td> <td>±0.20</td> <td>日期</td> <td>2016.04.23</td> <td>宾成</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>高峰</td> </tr> </table>					名称：铭牌		REV: A			图号：DYS618-120150-16423B		型号：DYS618-120150W-3	页号：6	图寸：A4	尺寸公差	比例	绘图	校对	批准	±0.05	±0.10	单位	MM	赵柳	±0.15	±0.20	日期	2016.04.23	宾成					高峰	E
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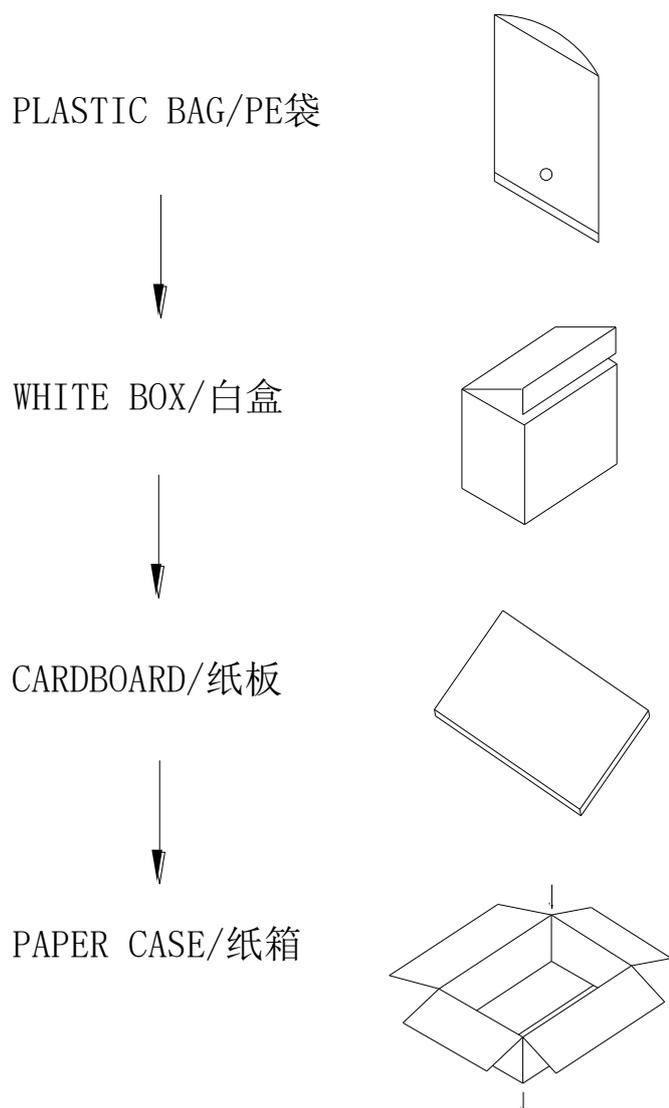
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14. Package Drawing:



MECHANICAL DIMENSION:

	L(mm)	W(mm)	H(mm)
PLASTIC BAG	210	130	
WHITE BOX	94	60	90
CARDBOARD	395	255	
PAPER CASE	405	265	300

PACKING METHOD:

PACKING METHOD	16PCS/LAYER * 3AYERS
QTY	48PCS
N.G	6.8Kg
G.W	7.3Kg