

# IPX-012P Series

1. SCOPE:

The purpose of the document is to specify the functional requirements of 12 W 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:

0.3 Amps max At any input voltage and rated, DC output rated load.

2.4 Inrush Current:

40 Amps Max. Cold start at 230Vac input, with rated load and 25°C ambient.

2.5 Ac Leakage Current:

0.25mA Max. At264Vac input

3. OUTPUT CHARACTERISTICS:

3.1 Power output

Voltage	Min. Load	Rated. Load	Peak Load	Output power
<u>12Vdc</u>	0.00A	<u>1A</u>		<u>12W</u>

3.2 Combined Load/Line Regulation

Voltage	Min. Load	Rated. Load	Line Regulation	Load Regulation
<u>12Vdc</u>	0.00A	<u>1A</u>	±3%	±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.

V o l t a g e R i p p l e a n d N o i s e ( M a x . )

+12Vd c 300mV p-p Max

3.4 Turn on delay time:

3Second Max.at 100Vac input and output Max.load.

3.5 Rise time:

40 mS Max.at 100Vac input and output Max load.

3.6 Hold up time:

5 mS Minas 100Vac input and output Max.Load.

3.7 Efficiency:

75% Min. at 115Vac input and output Max.Load.

75% Min. at 230Vac input and output Max.Load.

3.8 Load power consumption:

Rated Voltage:100~240Vac 0.3W max

4. PROTECTION FUNCTION:

4.1 Short circuit protection:

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 Output voltage achieve over voltage protection point.will auto protection without output.  
be capable of auto-recovery function

5. ENVIRONMENTAL REQUIREMET:

5.1 Operature Temperature:

0°C to 40°C,Full load, Normal operation.

5.2 Storage Temperature:-10°C to 70°C

With package

5.3 Relative Humidity:

20%~80%, Normal operating.

5.4 Grade of waterproof: IP67

6. SAFETY AND EMI REQUIREMENT:

6.1 Safety:accord with EN 60950-1.

6.2 Insulation Resistance: 500VDC primary to the secondary input impedance of 100MΩ (Min)

6.3 DIELECTRIC STRENGTH Hi-Pot:

Primary to secondary,3000Vac/5mA/60s.

Primary to Case,3000Vac/5mA/60s.

6.4 EMI STANDARD

Meets the Limits of

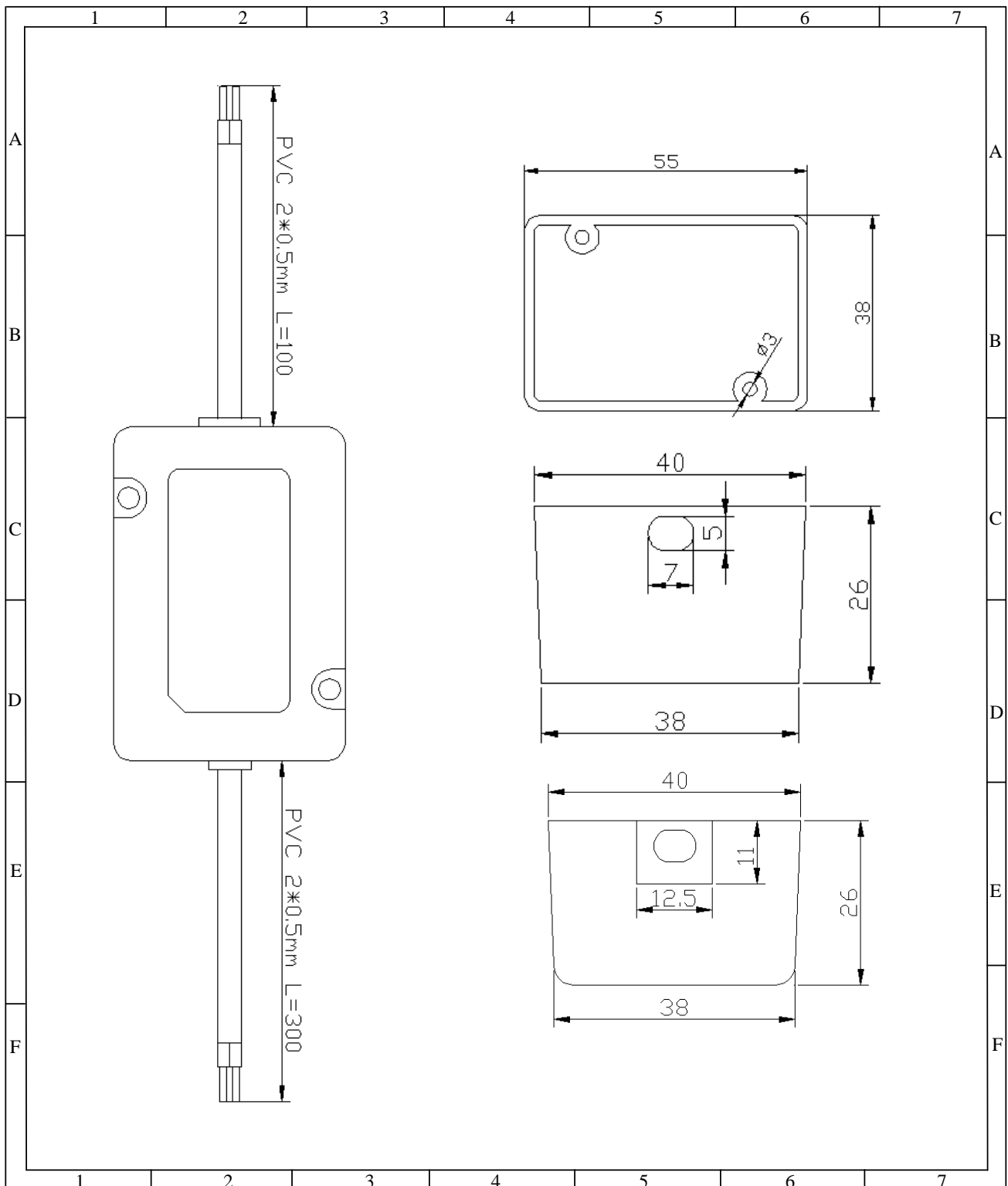
<1>. EN55022 class B rules

7. MECHANICAL REQUIREMENT:

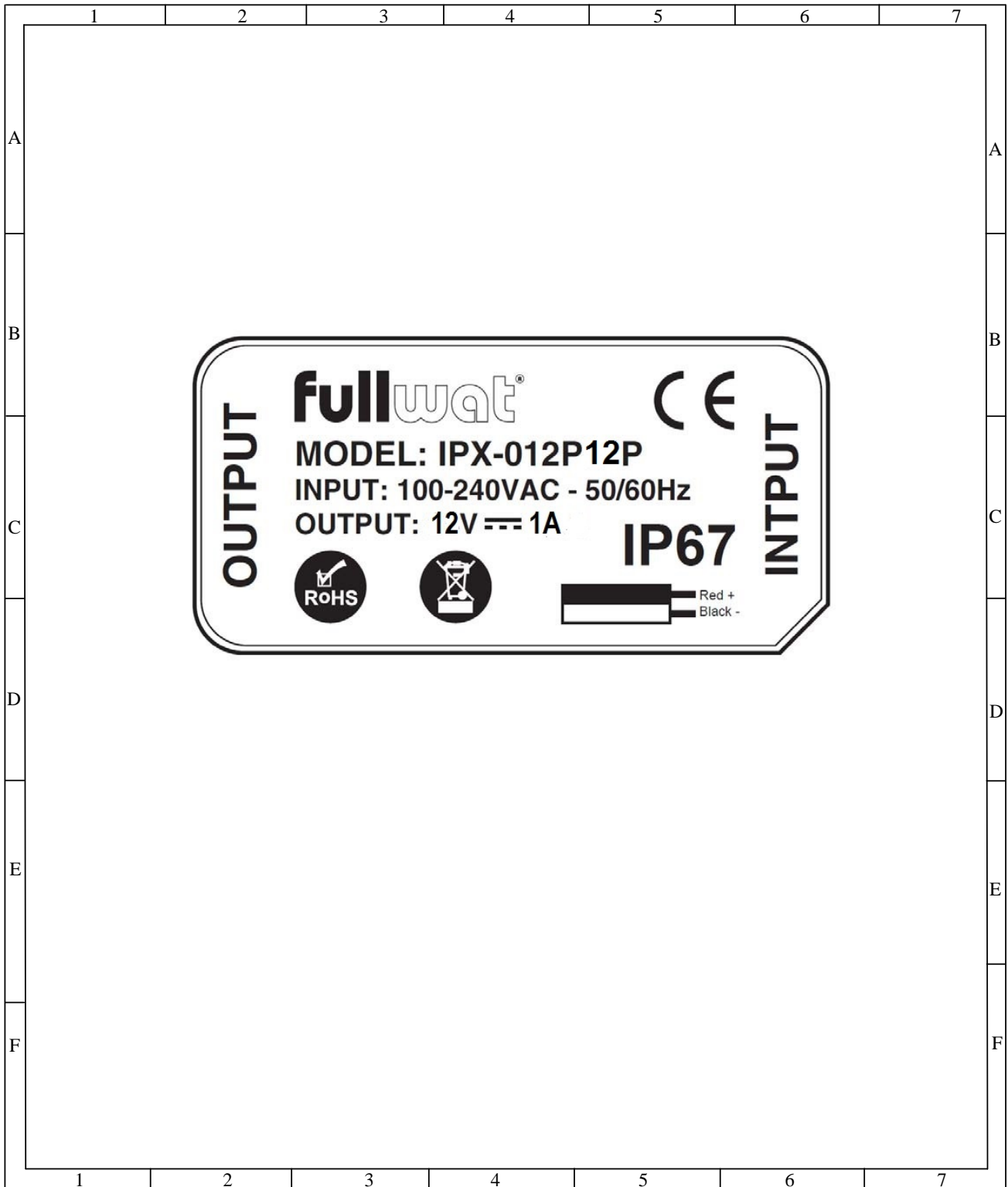
7.1 Enclosure:

The power supply size: L55Xw40XH26mm;

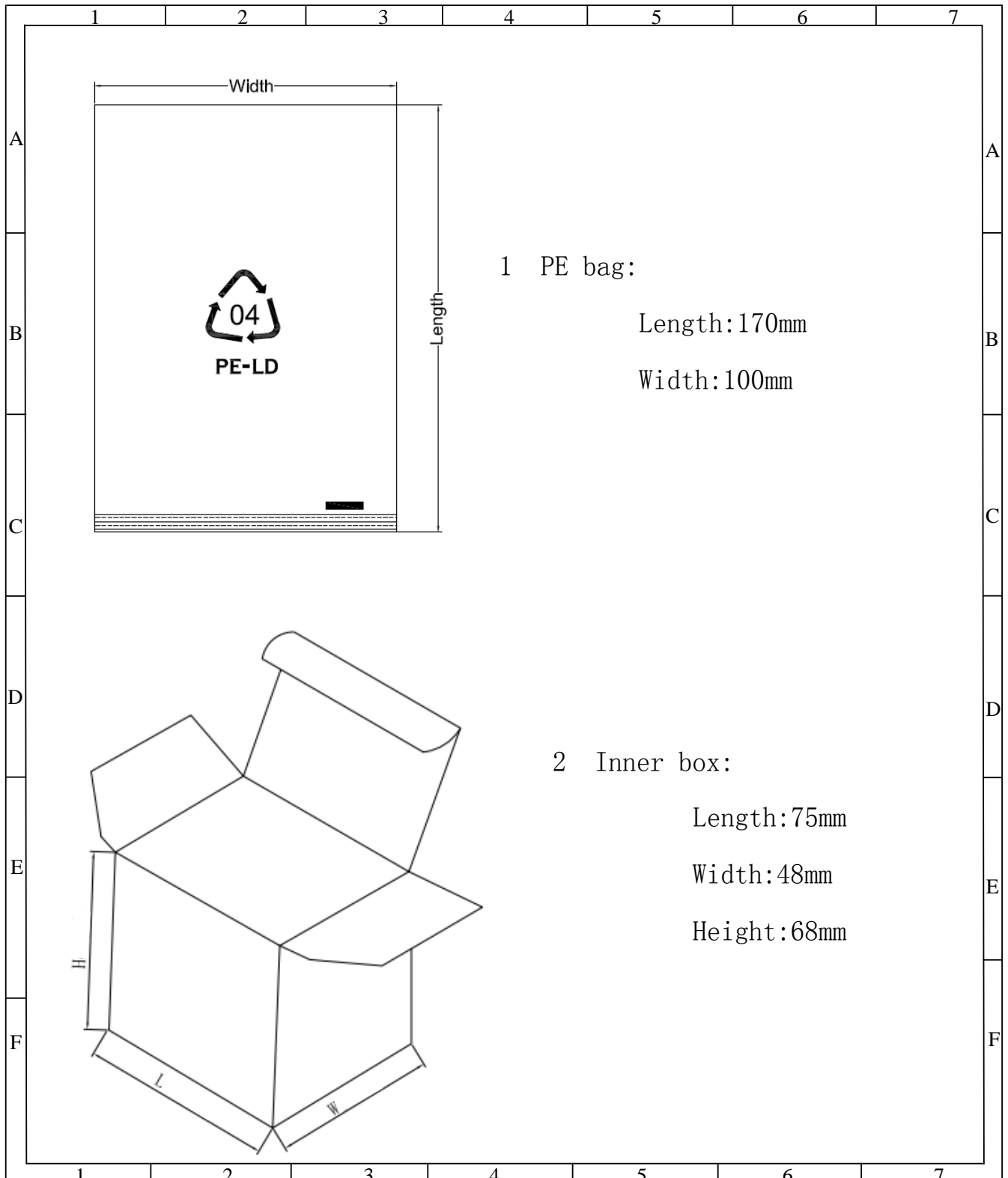
8. OUTLINE DIMENSION:

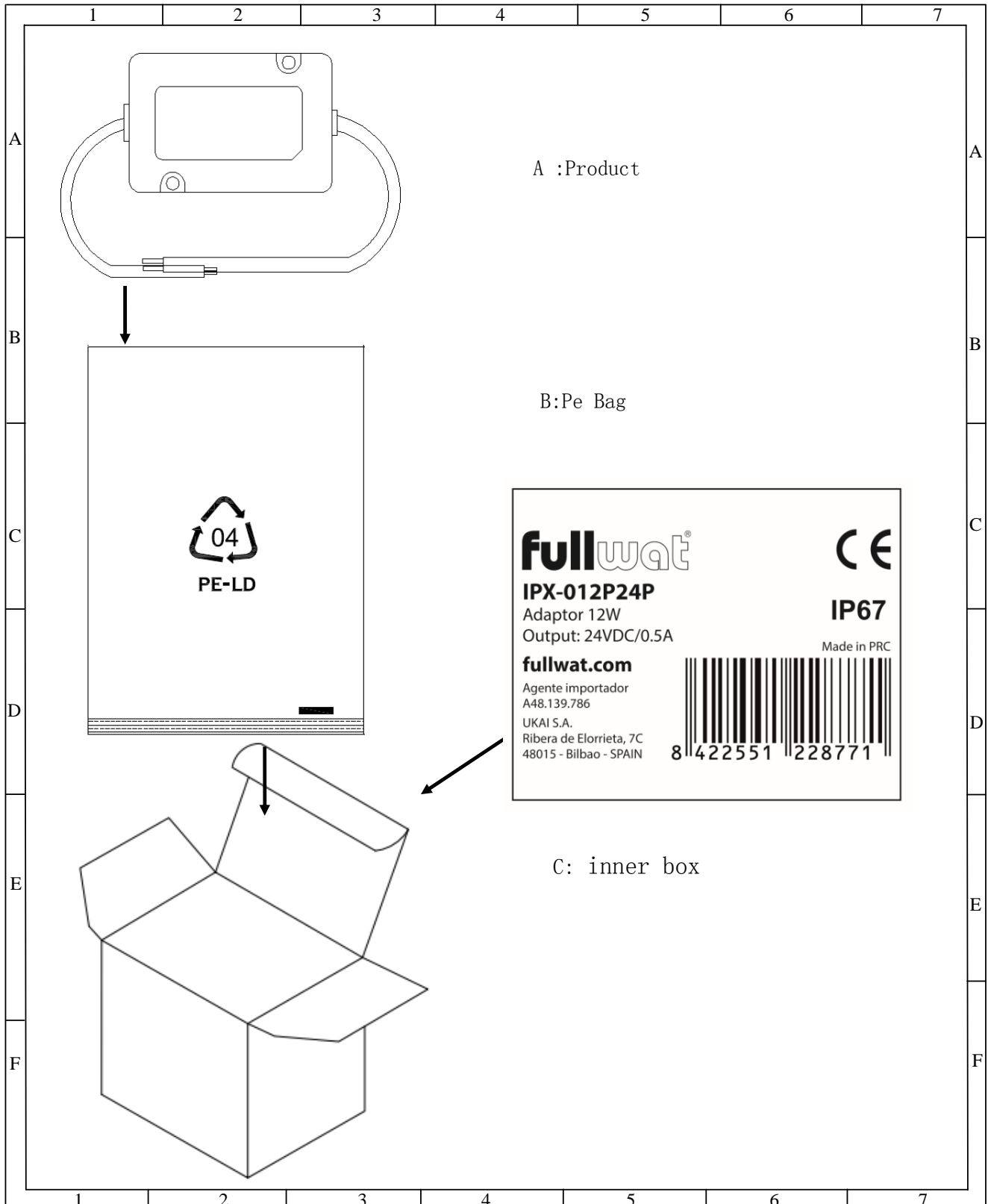


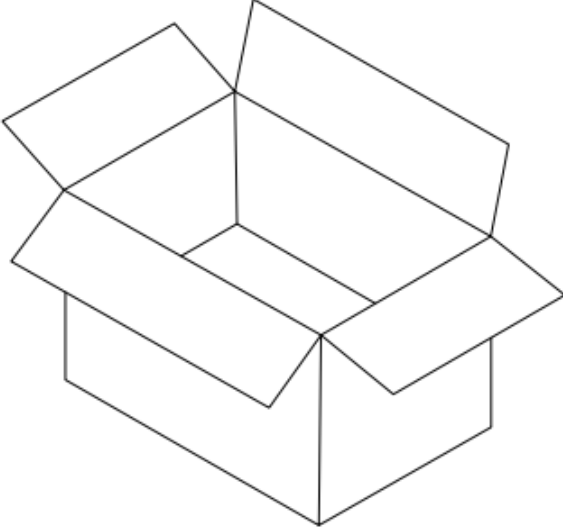
9. LABEL:



10. PACKING STEP:





	1	2	3	4	5	6	7	
A								A
B								
C								
D								
E	<p>Packing request: Packaging Outside box:405L*260W*300H Quantity:100PCS/CTN</p> <p>Remarks:</p> <ol style="list-style-type: none"><li>1. Firstly, put the product into PE bag according to the picture "A/B".</li><li>2. After finishing the first step, then put the product into white box according to the picture "C".</li><li>3. Then put the product into outer carton.</li><li>4. When packing finished, then seals the carton and labels the mark.</li><li>5. Through the QA inspection, the products can be shipped</li></ol>							E
F								F
	1	2	3	4	5	6	7	