



## Specification

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# FU-ADPY120-12

## Switching Power Supply

### RECORD OF ALTERATION

**PRODUCT NAME:** Switching Power Supply **MODEL NAME:** FU-ADPY120-12

Revision	Issue Date	Design	Details of alteration content
1	13-06-2018	Fullwat	First Edition

**1 SCOPE**

The purpose of the document is to specify the functional requirements of a 120 W switching power supply.

**2 INPUT CHARACTERISTICS**

**Input Voltage**

Rated Voltage ..... 100~240VAC  
 Variation Range ..... 90~264VAC

**Input Frequency**

Rated Frequency ..... 50/60Hz  
 Variation Frequency..... 47-63Hz

**Input Current**

2.8Amps max At any input voltage and rated, DC output rated load.

**Inrush Current**

90 Amps Max. Cold start at 240VAC input, with rated load and 25°C ambient

**AC Leakage Current**

0.25mA Max. at 264 VAC input

**3 OUTPUT CHARACTERISTICS**

**3.1 Power output**

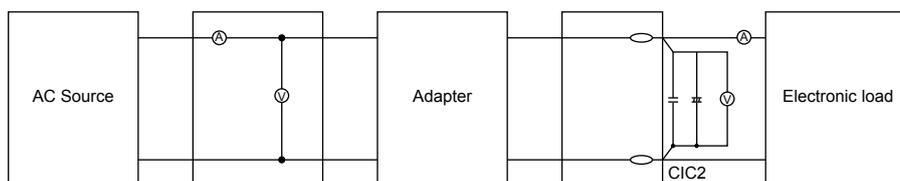
Voltage	Min. Load	Rated. Load	Peak Load	Output power
12VDC	0.00A	10A		120W

**3.2 Combined Load/Line Regulation**

Voltage	Min. Load	Rated. Load	Line Regulation	Load Regulation
12VDC	0.00A	10A	±3%	±5%

**3.3 Ripple and Noise:**

Output Ripple voltage is 200mV peak to peak or less.(100VAC 60Hz /240VAC 50Hz)



Measured methods

\*The ripple is measured from peak to peak with band width limit of 20MHz(C1:0.1uF Ceramics capacitor C2:47uF/50V Aluminum capacitor under DC output full load,AC nominal input 25 ambient temperature).

**3.4 Turn on delay time**

3 Second 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 Min.at 100VAC input and output Max.Load.

**3.7 Efficiency**

Energy Star Compliance : Level VI Requirement  
Average Efficiency achieve 88% at 115Vac input.  
Average Efficiency achieve 88% at 230Vac input.

**3.8 Standby power**

Rated Voltage: 100~240VAC 0.21W max.

**4 PROTECTION FUNCTION**

**Short circuit protection:** The power supply will be auto recovered when short circuit faults remove.

**Over current Protection:** The power supply will be auto recovered when over current faults remove.

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

**5 ENVIRONMENTAL REQUIREMENT**

**5.1 Operating Temperature**

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

**5.2 Storage Temperature:-10°C to 80°C**

With package.

**5.3 Relative Humidity**

25%(0°C)~75%(40°C)RH, 72Hrs, Full load, Normal operating.

**6 SAFETY AND EMI REQUIREMENT**

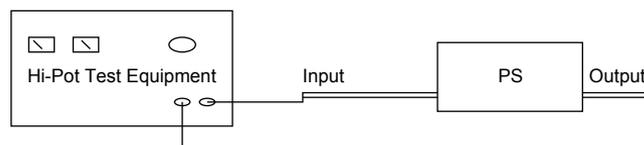
**6.1 Safety:** Comply with EN 60950-1.

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

**6.3 DIELECTRIC WITHSTAND Hi-Pot:**

HI-POT---A IEC 320 3pin primary to secondary(FG)1500Vac 5mA 1min

HI-POT---B IEC 320 2pin primary to secondary 3000Vac 5mA 1min



**6.4 EMI STANDARD**

Meets the Limits of

<1>.EN55022 class B rule

**7 MECHANICAL REQUIREMENT**

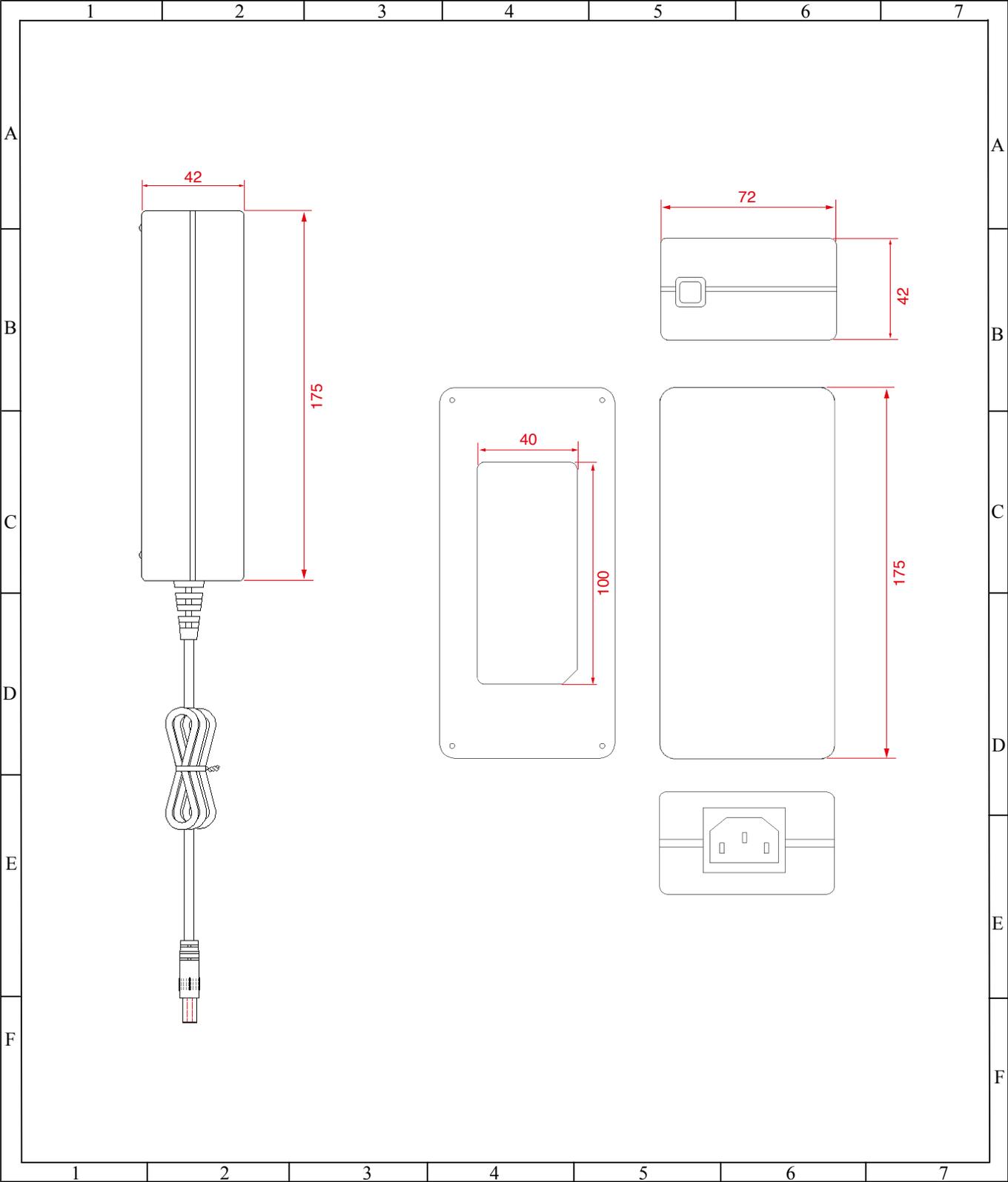
**7.1 Enclosure:**

The power supply size: L175 x W72 x H42mm.

**FU-ADPY120-12**

**switching power supply**

**8 OUTLINE DIMENSION:**

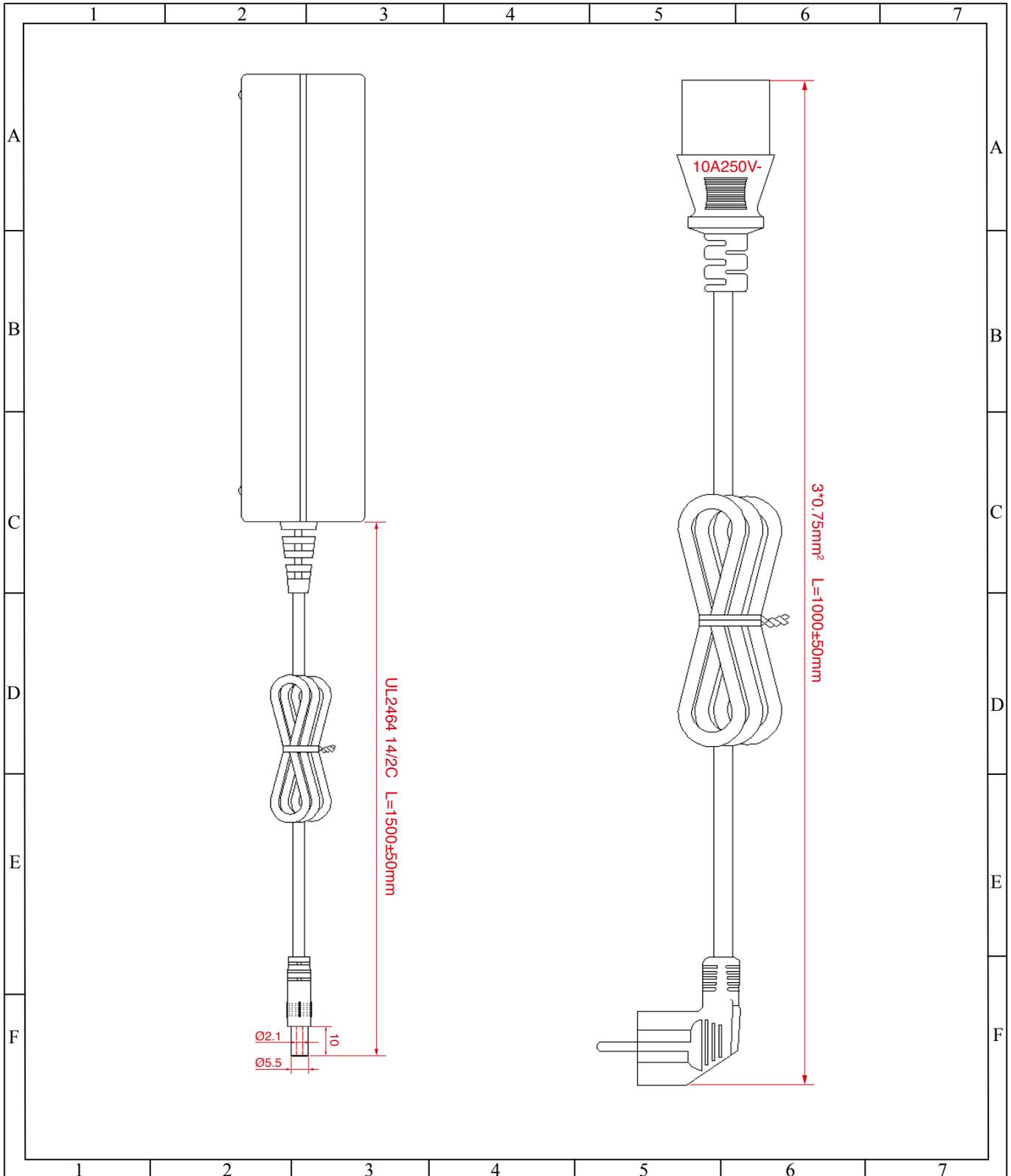




**FU-ADPY120-12**

**switching power supply**

**8 OUTLINE DIMENSION:**



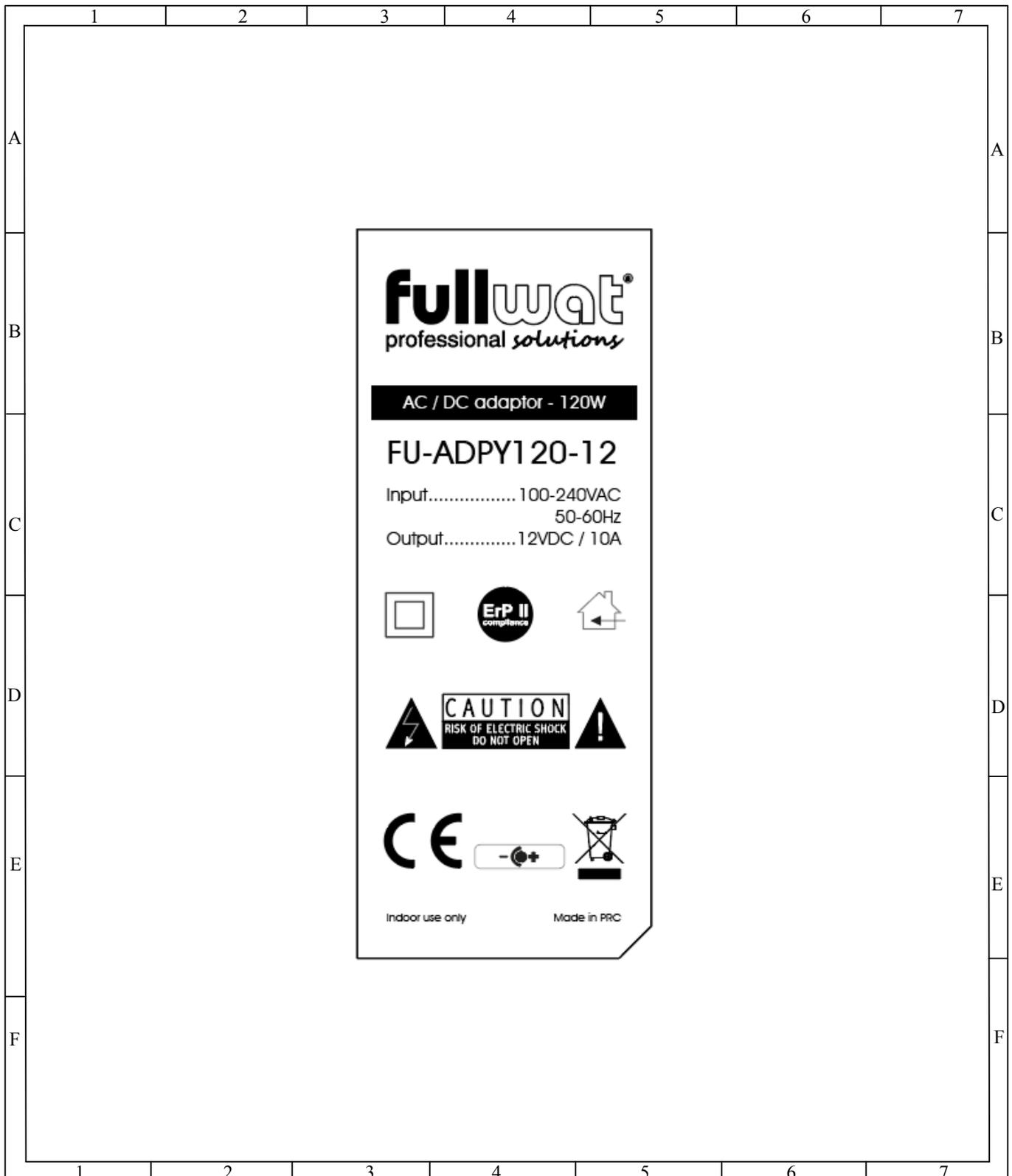


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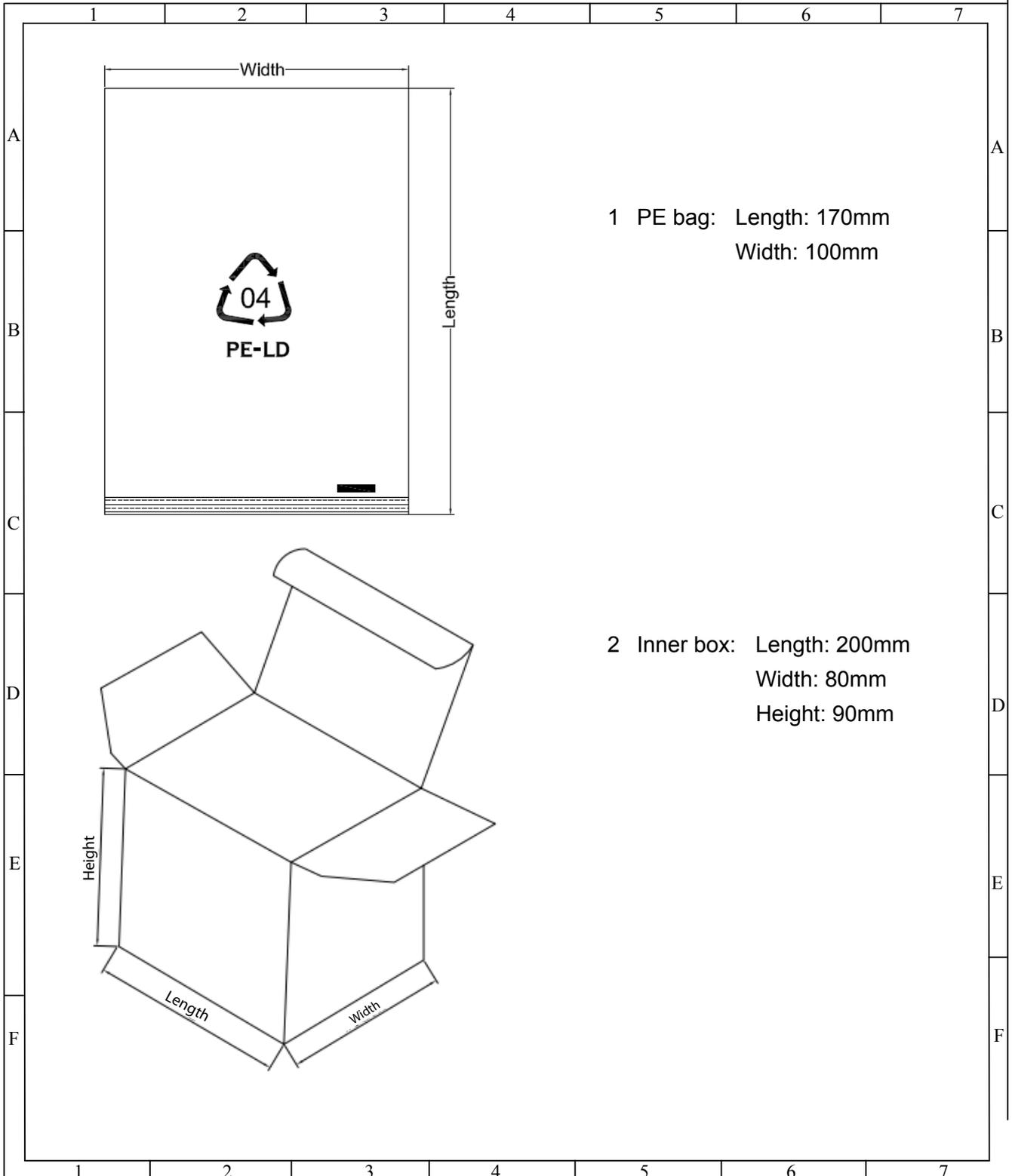
**FU-ADPY120-12**

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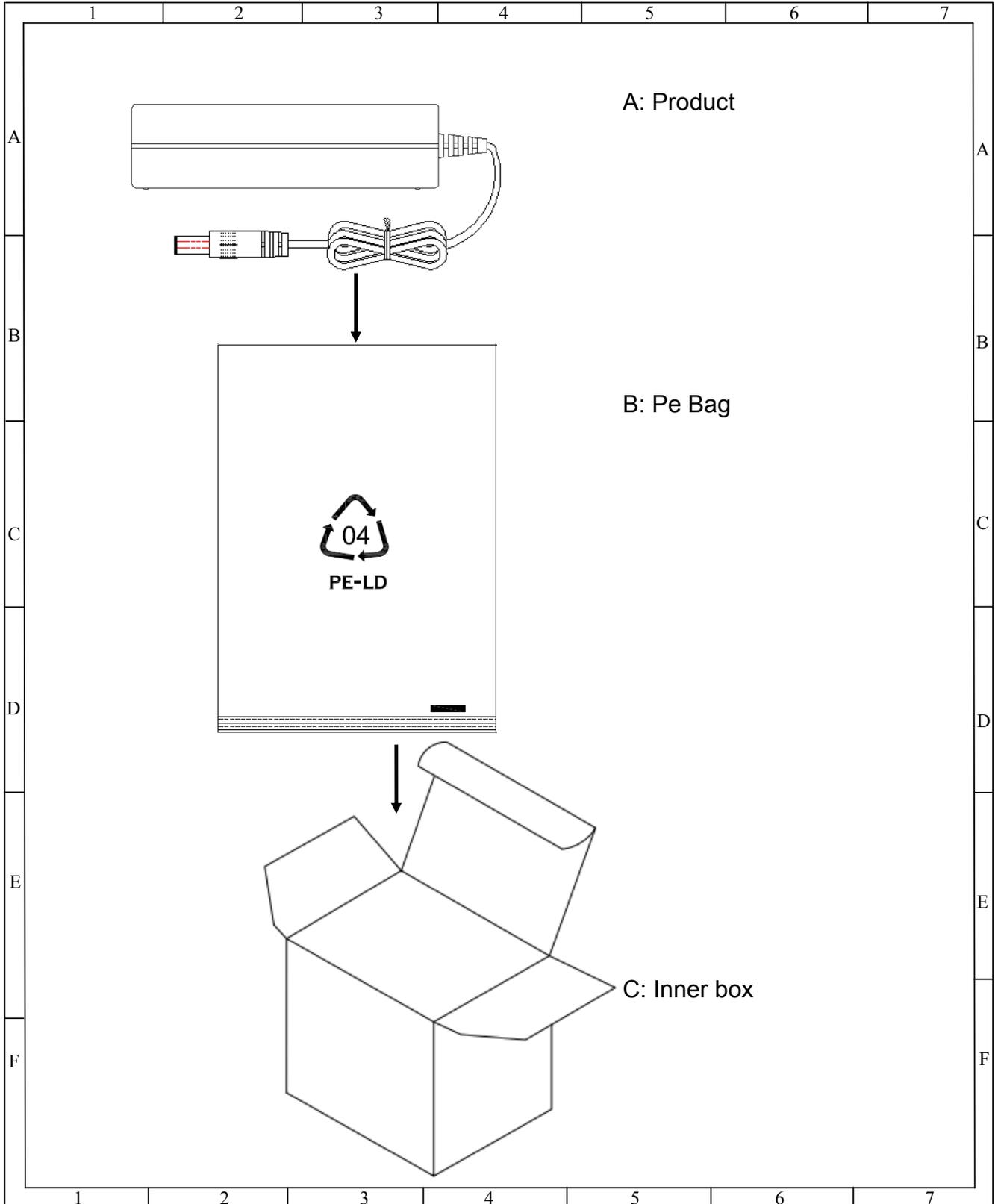
**9 LABEL:**



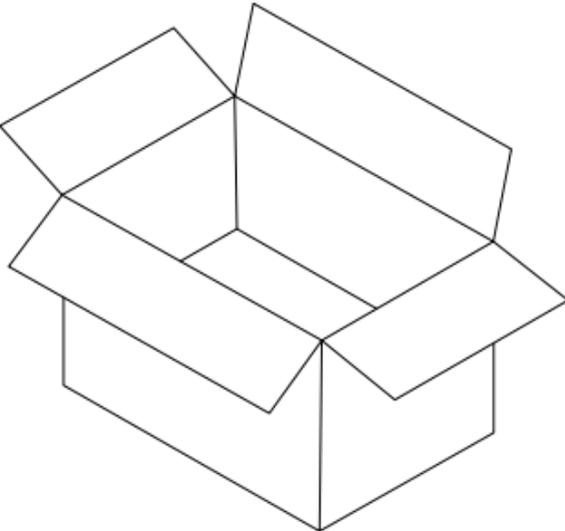
**10 PACKING STEP**



**10 PACKING STEP**



**10 PACKING STEP**

	1	2	3	4	5	6	7
A							A
B							B
C							C
D	<p><b>Packing request :</b></p> <p>Packaging</p> <p>Outsidebox: 425L*420W*200H</p> <p>Quantity: 20PCS/CTN</p>						D
E	<p><b>Remarks</b></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