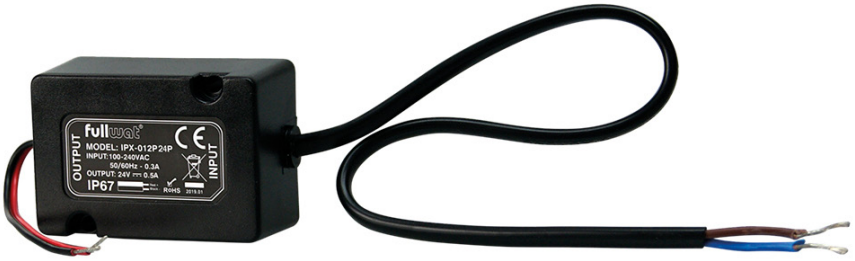
IPX-012P24P

12W AC/DC switching power supply



1. Scope

The purpose of the document is to specify the functional requirements of a 12W switching power supply.

2. Input characteristics

Item	Technical Norm
Rated voltage	100-240VAC
Variation voltage range	90-264VAC
Rated frequency	50-60Hz
Variation frequency	47-63Hz
Current	0.3Amps max at any input voltage and rated, DC output rated load
Inrush current	40 Amps Max. Cold start at 230Vac input, with rated load and 25ºC ambient.
AC leakage current	0.25mA Max.At264Vac input

3. Output characteristics

Power output				
Voltage	**Min. Load**	**Rated Load**	**Peak Load**	**Output power**
24VDC	0.00A	0.5A		12W

Combined Load/Line Regulation				
Voltage	**Min. Load**	**Rated Load**	**Line regulation**	**Load regulation**
24VDC	0.00A	0.5A	±3%	±5%

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.

Voltage: +24Vdc

Ripple and Noise: 300mV p-p Max.

Turn on delay time: 3 Second Max.at 100Vac input and output Max.load.

Rise time: 40 mS Max.at 100Vac input and output Max load.

Hold up time: 5 mS Min.at 100Vac input and output Max.Load.

Efficiency: 75% Min. at 115Vac input and output Max.Load.
75% Min. at 230Vac input and output Max.Load.

Load power consumption: Rated Voltage: 100~240Vac 0.3W 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

Operating Temperature: 0ºC to 40ºC, full load, normal operation.

Storage Temperature: -10ºC to 70ºC
With package

Relative Humidity: 20%-80%, Normal operating.

6. Safety ande EMI requirement

Safety: accord with EN 60950-1.

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

Dielectric strength Hi-Pot:

Primary to secondary, 3000Vac/5mA/1min.
Primary to case, 3000Vac/5mA/1min.

EMI standard: Meets the Limits of
EN55032 class B rules

7. Mechanical requirement

Enclosure:

The power supply size: L55xW40xH26mm.

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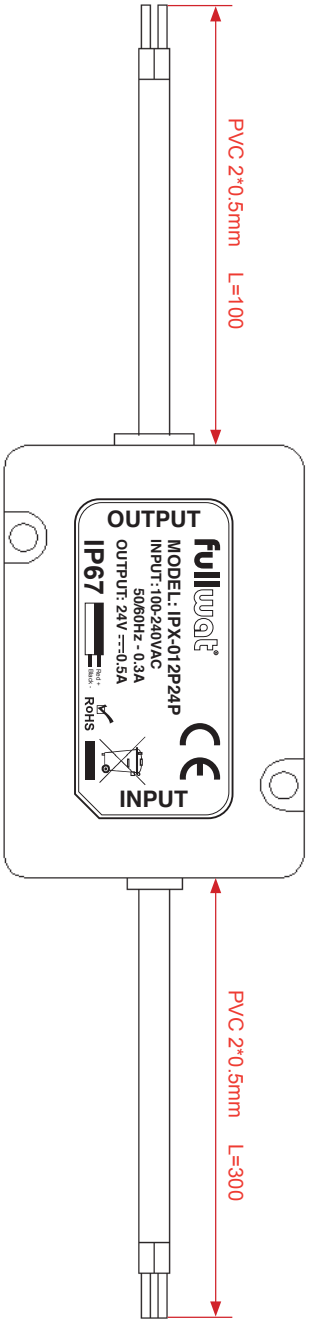
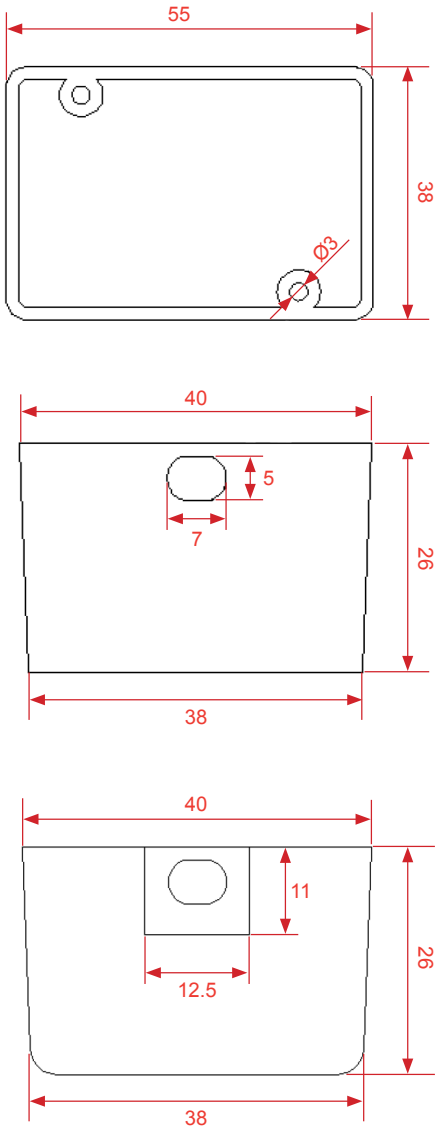
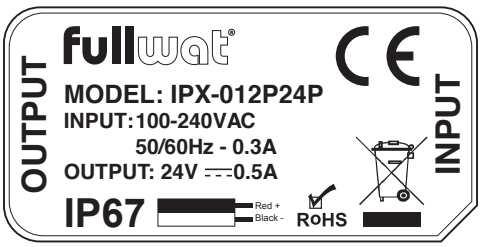
8. Outline dimension

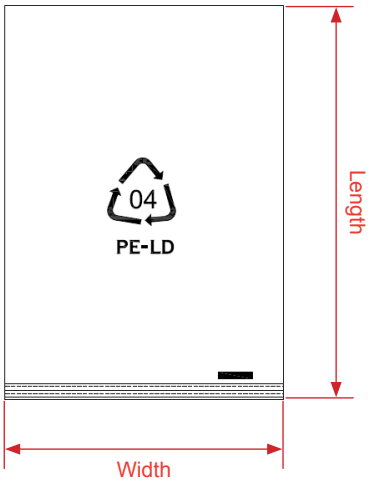




9. Label

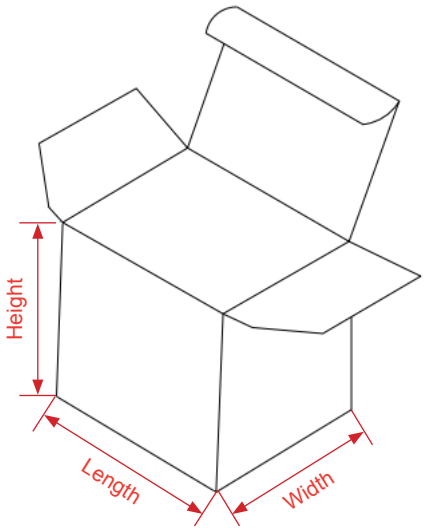


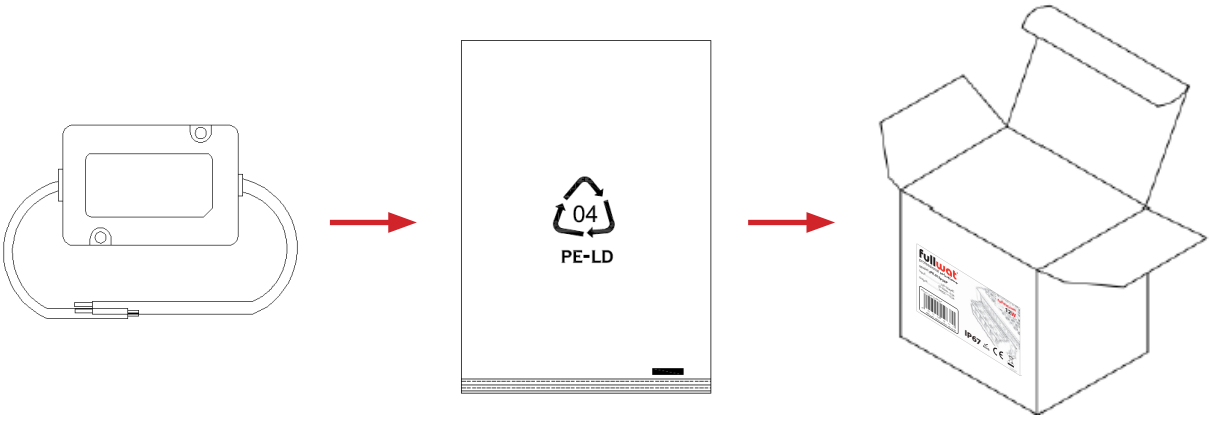
10. Packing Step



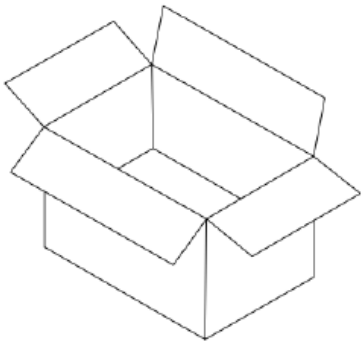
1. **PE bag**
   Length: 170mm
   Width: 100mm

2. **White box:**
   Length: 75mm
   Width: 48mm
   Height: 68mm





A: **Product** B: **PE bag** C: **White box**



Packing request:

Packaging: Outside box: 405L*260W*300H
Quantlty: 100PCS/CTN

Remarks:

1. Firstly, put the product into PE bag according to the picture “A/B”.
2. After finishing the first step, then put the product into white box according to the picture “C”.
3. Then put the product into outer carton.
4. When packing finished, then seals the carton and labels the mark.
5. Through the QA inspection, the products can be shipped.