

1. SCOPE:

FU-ADPY36-12

The purpose of the document is to specify the functional requirements of a 36 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:

0.8 Amps max at any input voltage and rated, DC output rated load.

2.4 Inrush Current:

50 Amps Max. Cold start at 240Vac 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
12Vdc	0.00A	3A		36W

3.2 Combined Load/Line Regulation

Voltage	Min. Load	Rated. Load	Line Regulation	Load Regulation
12Vdc	0.00A	3A	±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.

<150mV p-p 3.4

Voltage Rippleand Noise (Max.)

Turn on delay time:

+12Vdc

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
- 3.6 Hold up time:
- 5 MS Min.at 100Vac input and output Max.Load.
- 3.7 Efficiency:

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80%min. at 115Vac input and output Max. Load. 80%min. at 230Vac input and output Max. Load.
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3.8 No 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.

- 5. ENVIRONMENTAL REQUIREMET:
 - 5.1 Operating Temperature:

5.2 Storage Temperature:-10℃ to 80℃

With package

5.3 Relative Humidity:

 $25\%(0^{\circ})^{\sim}75\%(40^{\circ})$ RH, 72Hrs, Full load, Normal operating.

- 6. SAFETY AND EMI REQUIREMENT:
 - 6.1 Safety:accord with EN 60950-1.
 - 6.2 DIELECTRIC STRENGTH Hi-Pot:

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

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

6.3 EMI STANDARD

Meets the Limits of

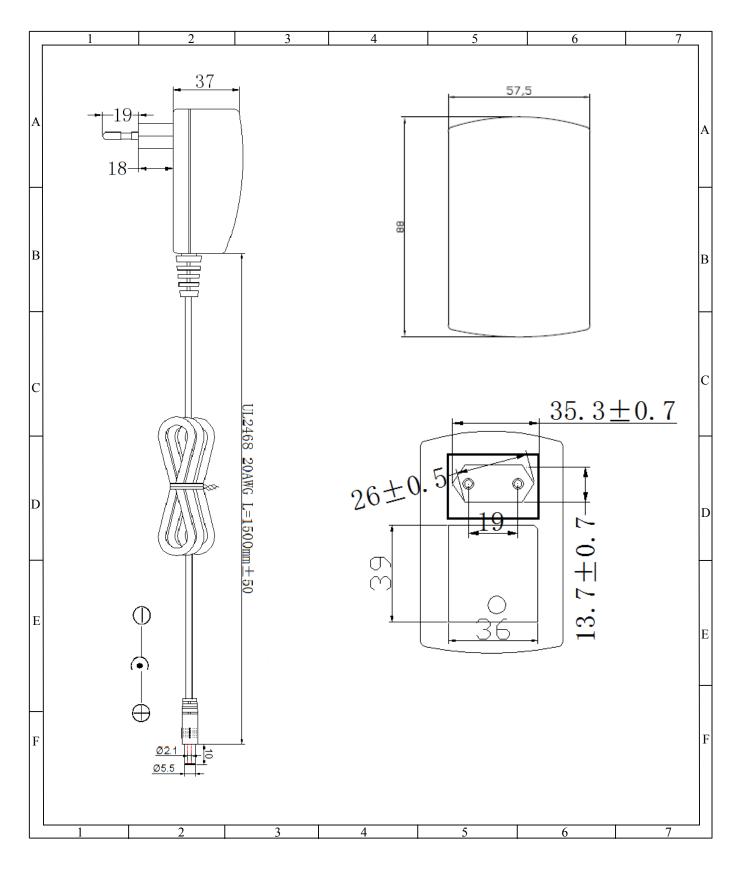
<1>. EN55022 class B rules

- 7. MECHANICAL REQUIREMENT:
 - 7.1 Enclosure:

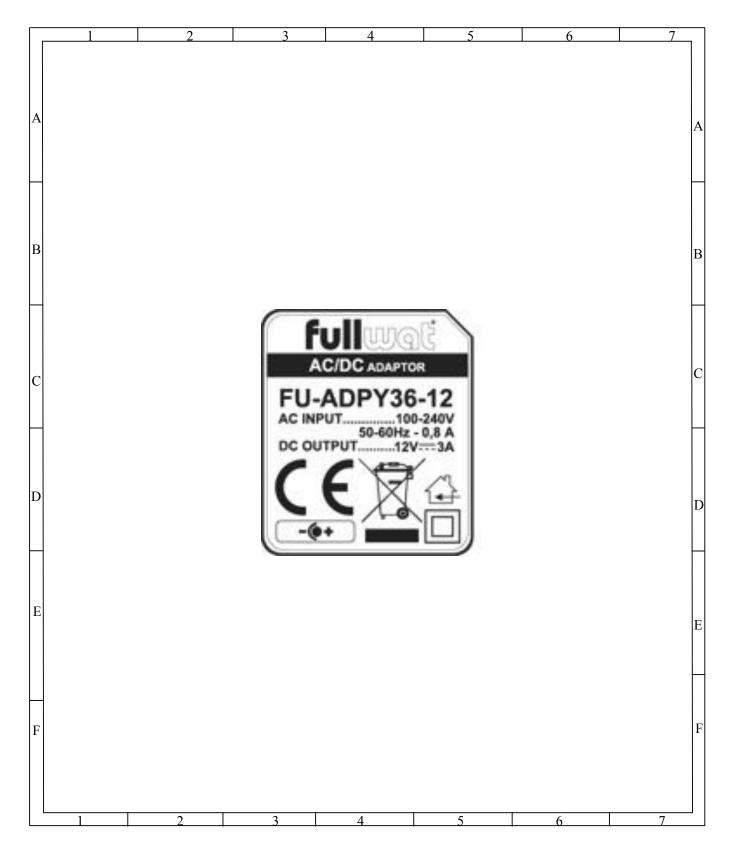
The power supply size: L88 x W57.5 x H37mm;

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10. PACKING STEP:



