

# ADP50AC-12

Single Output AC adapter



## Features:

- 50W Max. Continuous Output Power
- 4.24" × 2.36" × 1.2" Package Size
- LED output state display
- High Efficiency and Reliability
- Built-in EMI Filter
- UL, TUV(GS), CE Certified (A)

All specifications are typical at nominal input, full load at 25 °C unless otherwise stated.

## Electrical Specs

<b>INPUT</b>	
Input Voltage Range	90 ~ 264V AC
Input Frequency Range	47 ~ 63Hz
Input Current	1.5A max. @ 90VAC
Efficiency	≥80% @ 115VAC, full load
Inrush Current	25A max. @ 120VAC, cold start 50A max. @ 230VAC, cold start
Leakage Current	0.25mA max. @ 120VAC, 60Hz 0.45mA max. @ 230VAC, 50Hz
<b>OUTPUT</b>	
Output Current	4A max. 4.5A peak(B)
Line Regulation	12V ±1%
Total Regulation	12V ±5%
Power On Time	5s max. at turn-on
Hold-up Time	≥5ms @ max. load, 115VAC
OCP Protection	16V max.
OCP Protection	7A max.
Short Circuit Protection	Cyclic operation

## General

LED	Output state(Light=Power on)
Input Fuse	250VAC, 2.5A
Isolation Voltage	2150V AC
Switching Frequency	100KHz
Weight	0.272Kg (0.6 lbs.) max
MTBF	150,000 hours min. @ 25°C, 80% load
Warranty Info	1 year

## Environmental

Operating Temp	5°C to 40°C
Storage Temp	-20°C to 85°C
Temp. Derating	Decrease to 66% load from 40°C to 70°C
Relative Humidity	5% ~ 95% RH Non-condensing
Vibration	3.5G, 5Hz ~ 500Hz @ three orthogonal axes
Shock	100G peak
RoHS	Compliant

## Safety

cUL UL60950-1: 2003, First Edition



TUV EN60950-1: 2001 +A11



**A.** we will order the safety certificate, according to the customer's request.

**B.** The peak load duration shall be less than 10 milliseconds with a duty cycle of less than 5%.

## EMC

Conducted Emissions	EN55022, FCC part 15 level B
Radiated Emissions	EN55022, FCC part 15 level B

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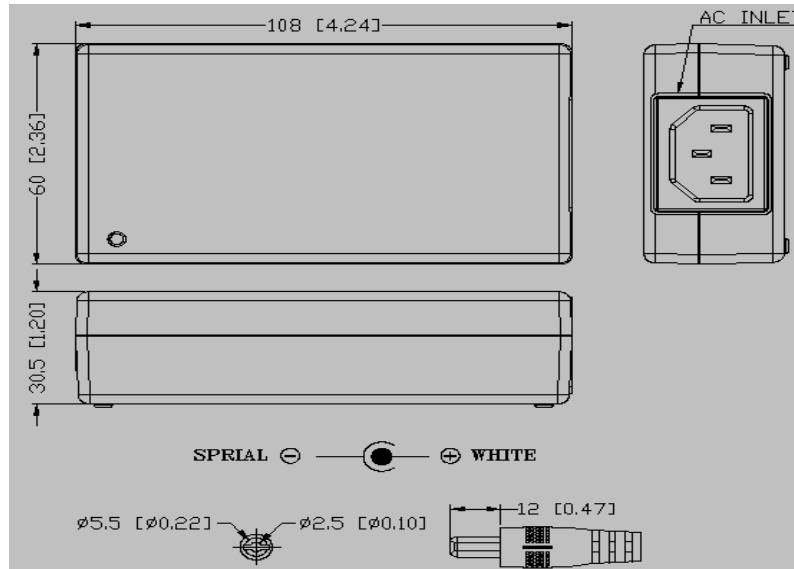
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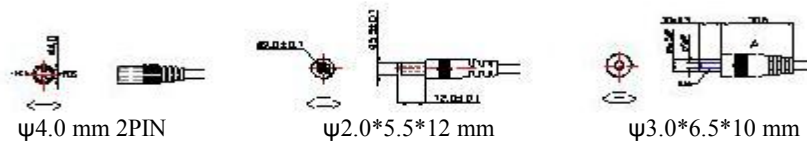
Single Output Power Supply



## Mechanical Information



- Note: 1. All dimensions in mm(inches)  
2. Detailed mechanical drawing upon request  
3. The following DC plug specifications are available:



## De-Rating Curve

Power vs. Ambient temperature curve is upon request.

DataSheet @ Amperor, Inc. @ 2008

The information and specifications contained in this datasheet are believed to be accurate at time of publication. Specifications are subject to change without notice.