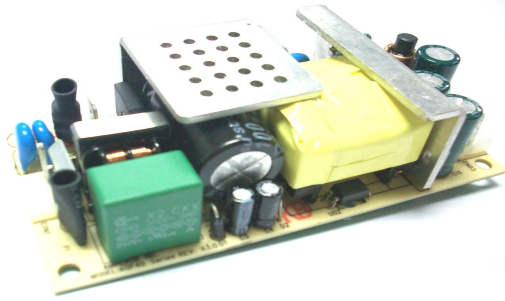


# AOF40 Series

Single Output Power Supply



## Features and Applications:

- 40W Max With Free Air Cooling
- AC/DC Universal Input Switch Mode Power Supply
- Industry Standard 4.0x2.0x1.2 Inch Package(1U applications)
- Over-Voltage, Short Circuit Protection
- EMI Compliance - EN55022-B, FCC Part 15 Class B
- Safety Approvals - cULus, TUV, NEMKO, CB Report

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

### Electrical Specs

#### INPUT

Input Range	90 ~ 264VAC, full range
Frequency Range	47 ~ 63 Hz
Efficiency	See table 1
Input Current	1.5A rms @ 100VAC, full load
Inrush Current	40A max. @ 115VAC, cold start 80A max. @ 230VAC, cold start

Leakage Current	2.0 mA max
Input Fuse	3.15A, 250VAC

#### OUTPUT

Maximum Power	40W continuous, see table 1
Minimum Load Operation	0A
Load Regulation	±2%
Line Regulation	±1% max.
Ripple & Noise	1% of Vo at 20M Hz

Power On Time	2s max. at turn on
Hold-up Time	> 10ms@ full load, 115AC


OVP Protection	150%
Short Circuit Protection	Automatic restart

Temperature Derating	+50 °C ~+70 °C decrease 2.5% / °C decrease 0.5% / °C with 10 CFM See figure 1
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### General

Isolation Voltage	3000VAC or 4242VDC @ between input and output
Switching Freq.	100KHz, ±5KHz fixed
Weight	200g(7.06z)
Warranty Info	1 year
MTBF	150,000 hours min. @25C, 80% load

### Environmental

Operating Temp.	-40°C to 75°C
Storage Temp.	-40°C to 85°C
Relative Humidity	5% to 95% Non-condensing
Altitude	Operating 10,000 ft max. Non-operating 50,000 ft max.
Vibration	2.4G rms peak, 5Hz ~ 500Hz
Shock	40G peak
RoHS	Compliant 

### EMC

Conducted Emissions	EN55022, FCC part 15 level B
Radiated Emissions	EN55022, FCC part 15 level A
Voltage Flicker	EN61000-3-3
Dips & Interruptions	EN61000-4-11, 30% 10 ms, 60% 100 ms, 100% 5000 ms Perf Criteria A, B, B
Conducted Immunity	EN61000-4-6, Criteria A
EFT/Burst	EN61000-4-4, level 3, Criteria B

### Safety

cULus UL60950-1: 2003, First Edition



N EN60950-1



TUV EN60950-1



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886-2-2698-2239

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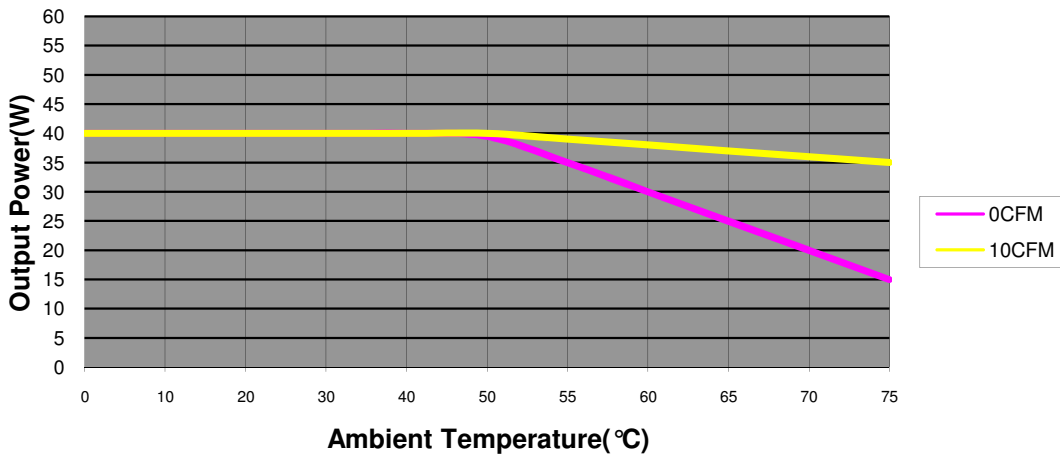


## Order Information

Table1 AOF40 Series Model Output Specifications(230V)

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT Max	%EFF. TYPICAL	RIPPLE & NOISE	LOAD REGULATION	OUTPUT VOLTAGE RANGE
AOF40-33	+3.3V	6A	76	50mv	±2%	±5%
AOF40-05	+5V	6A	78	50mV	±2%	±5%
AOF40-09	+9V	4.45A	82	90mV	±2%	±5%
AOF40-12	+12V	3.3A	84	120mV	±2%	±5%
AOF40-15	+15V	2.67A	85	150mV	±2%	±5%
AOF40-24	+24V	1.67A	86	150mv	±2%	±5%
AOF40-30	+30V	1.33A	86	150mv	±2%	±5%
AOF40-36	+36V	1.11A	87	150mv	±2%	±5%
AOF40-48	+48V	0.834A	88	150mv	±2%	±5%

Figure 1: Derating Curve



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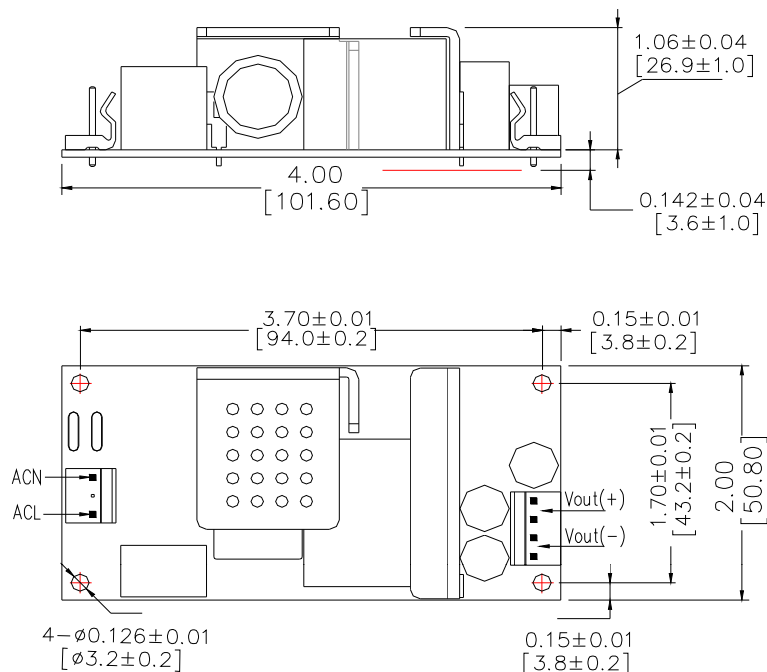
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## Mechanical Information



J1	AC INPUT CONNECTOR
PIN 1	NEUTRAL
PIN 2	NO PIN
PIN 3	LINE

J2	DC OUTPUT CONNECTOR
PIN 1	+V
PIN 2	+V
PIN 3	-V
PIN 4	-V

- Note: 1. All dimensions in inches(mm)  
2. Other tolerance: ±0.02(±0.5)  
3. Customer can select the assembly holes size on the PCB.  
Optional mounting holes size use suffix: "A" for 0.160 & "B" for 0.145  
4. Detailed mechanical drawing 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.