

AOF40 Series

Single Output Power Supply



AmperorTM
power by design

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 - cUL,TUV,NEMKO,CB Report

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

Electrical Specs		General	
INPUT		Isolation Voltage	Input 3000VAC 4242VDC
Input Range	90 ~ 264VAC, full range	Switching Freq.	100KHz, ±5KHz fixed
Frequency Range	47 ~ 63 Hz	Weight	200g(7.06z)
Efficiency	See table 1	Warranty Info	1 year
Input Current	1.5A rms @ 100VAC, full load	MTBF	150,000 hours min. @25C, 80% 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		Environmental	
Maximum Power	40W continuous, see table 1	Operating Temp.	-40°C to 75°C
Minimum Load Operation	0A	Storage Temp.	-40°C to 85°C
Load Regulation	±2%	Relative Humidity	5% to 95% Non-condensing
Line Regulation	±1% max.	Altitude	Operating 10,000 ft max. Non-operating 50,000 ft max.
Ripple & Noise	1% of Vo at 20M Hz	Vibration	2.4G rms peak, 5Hz ~ 500Hz
Power On Time	2s max. at turn on	Shock	40G peak
Hold-up Time	> 10ms@ full load,115AC	RoHS	Compliant
OVP Protection	150%	EMC	
Short Circuit Protection	Automatic restart	Conducted Emissions	EN55022, FCC part 15 level B
Temperature Derating	+50 °C ~+70 °C decrease 2.5% / °C decrease 0.5% / °C with 10 CFM See table 2	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, 10 Vrms, Perf Criteria A
		EFT/Burst	EN61000-4-4, level 3 Perf Criteria B
Safety			
cUL	UL60950-1: 2003, First Edition		
N	EN60950-1		
TUV	EN60950-1		

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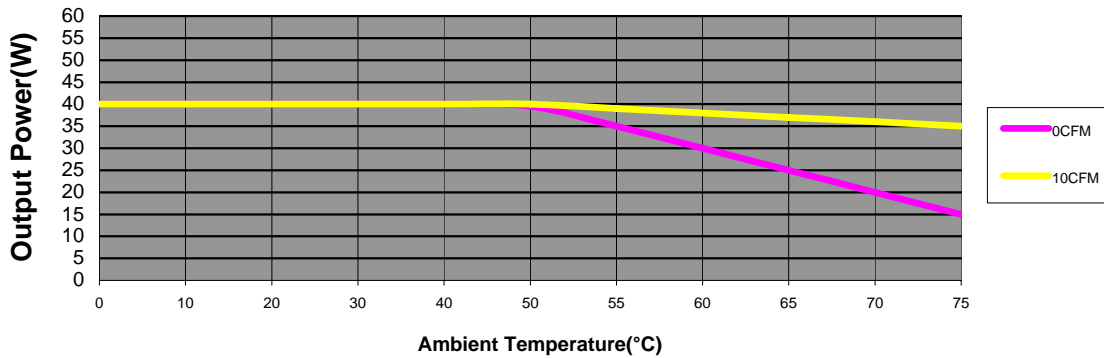
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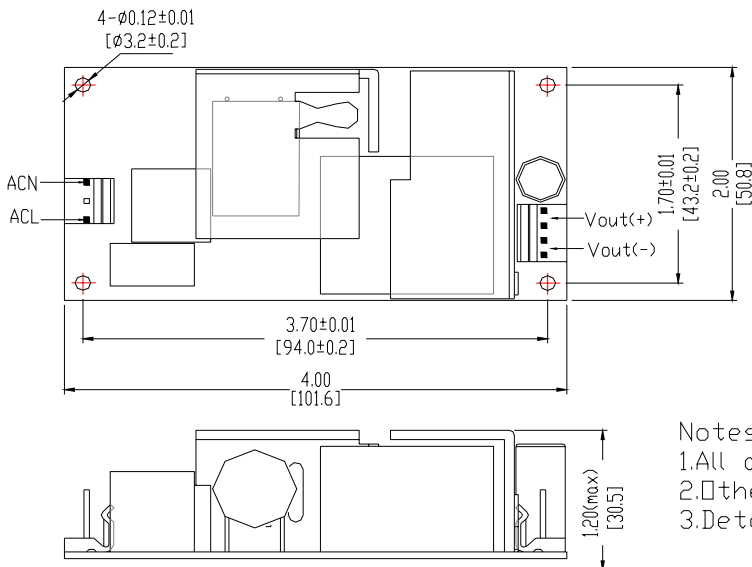


MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT Max	%EFF. TYPICAL	RIPPLE & NOISE	LOAD REGULATION	OUTPUT VOLTAGE RANGE
AOF40-33	+3.3V	6A	76	50mv	±2%	±5%
AOF40-05	+5V	6A	78	50mV	±2%	±5%
AOF40-09	+9V	4.45A	82	90mV	±2%	±5%
AOF40-12	+12V	3.3A	84	120mV	±2%	±5%
AOF40-15	+15V	2.67A	85	150mV	±2%	±5%
AOF40-24	+24V	1.67A	86	240mv	±2%	±5%
AOF40-30	+30V	1.33A	86	300mv	±2%	±5%
AOF40-36	+36V	1.11A	87	360mv	±2%	±5%
AOF40-48	+48V	0.834A	88	480mv	±2%	±5%

Table 2 Derating Curve



Mechanical Information



- Notes:
1. All dimensions in unit inches [mm].
 2. Other tolerance: ± 0.02 [± 0.5]
 3. Detailed mechanical drawing upon request.

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