

# AOF25 Series

Single, Dual and Triple Output



## Features and Applications:

- 25W with Free Air Convection
- 30W Max. Continuous Power with 15 CFM. Forced Air
- 3.6" × 2.5" × 1.15" Package Size
- Over Voltage, Over Temperature and Short Circuit Protection
- Very Low Leakage Current Design
- cUL, TUV, Nemko Certified

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

### Electrical Specs

<b>INPUT</b>	
Input Range	90 ~ 264VAC
Frequency	47 ~ 63 Hz
<b>Input Current</b>	
Efficiency	1.0A rms @ 90 VAC 75% typical
Inrush Current	< 25A peak @ 120 VAC cold start @ 25°C
Leakage Current	0.2mA @ 120 VAC, 60Hz 0.4mA @ 230 VAC, 50Hz
<b>OUTPUT</b>	
Maximum Power	25W continuous 30W with 15 CFM. force air
Total Regulation	± 5%
Output Adjustment	± 2%
Transient Response	± 5% max. deviation @ 25% step of full load
Hold-up Time	> 18ms @ full load, 120VAC > 24ms @ full load, 230VAC
OVP Protection	125% output voltage
Short Protection	Auto-restart mode
OTP protection	110 °C @ heat sink

### Safety

cUL UL60950-1: 2003, First Edition



TUV EN60950-1: 2001 +A11



Nemko EN60950-1: 2001 +A11



### General

Isolation Voltage	3000V AC, between Input and output 1500V AC, between Input and earth
Switching Freq.	100K Hz
Warranty Info	1 year
MTBF	150,000 hours min. @ 25°C, 80% of full load
Weight	0.12 Kg (0.265 lbs.) max.

### Environmental

Operating Temp.	0°C ~ 40°C
Storage Temp.	-20°C ~ 80°C
Temp. Derating	Decrease to 66% load from 40°C to 70°C
Relative Humidity	5% ~ 95% RH, non-condensing
Vibration	2.4G rms peak, 5Hz ~ 500Hz @ three orthogonal axes
Shock	40G peak
RoHS	Compliant

### EMC

Conducted Emissions	EN55011, Class B; FCC Class B
Radiated Emissions	EN55022, Class B; FCC Class B

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886-2-2698-2239

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Order Information								
Model name	Output #1	Output #2	Output #3	Pin 1	Pin 2, 3	Pin 4	Pin 5	Pin 6
AOF25-1030	+3.3V @ 7A			NC	RTN	+3.3V	+3.3V	NC
AOF25-1050	+5.0V @ 5A			NC	RTN	+5V	+5V	NC
AOF25-1090	+9.0V @ 2.8A			NC	RTN	+9V	+9V	NC
AOF25-1120	+12V @ 2.1A			NC	RTN	+12V	+12V	NC
AOF25-1135	+13.5V @ 1.9A			NC	RTN	+13.5V	+13.6V	NC
AOF25-1150	+15V @ 1.7A			NC	RTN	+15V	+16V	NC
AOF25-1165	+16.5V @ 1.5A			NC	RTN	+16.5V	+16.6V	NC
AOF25-1180	+18V @ 1.4A			NC	RTN	+18V	+18V	NC
AOF25-1240	+24V @ 1.1A			NC	RTN	+24V	+24V	NC
AOF25-2010	+5.0V @ 2.5A	+12V @ 1A		+12V	RTN	+5V	+5V	NC
AOF25-2020	+5.0V @ 2A	+15V @ 1A		+15V	RTN	+5V	+5V	NC
AOF25-2030	+5.0V @ 2A	-5.0V @ 2A		-5V	RTN	+5V	+5V	NC
AOF25-2040	+5.0V @ 2.5A	-12V @ 1A		NC	RTN	+5V	+5V	-12V
AOF25-2050	+5.0V @ 2A	+24V @ 0.6A		+24V	RTN	+5V	+5V	NC
AOF25-2060	+15V @ 0.8A	-15V @ 0.8A		-15V	RTN	+15V	+15V	NC
AOF25-2070	+5.0V @ 3A	+12V @ 0.5A		+12V	RTN	+5V	+5V	NC
AOF25-2080	+12V @ 1A	+24V @ 0.5A		+24V	RTN	+12V	+12V	NC
AOF25-3010	+5.0V @ 3A	+12V @ 0.5A	-12V @ 0.2A	+12V	RTN	+5V	+5V	-12V
AOF25-3020	+5.0V @ 3A	+12V @ 0.5A	-5.0V @ 0.2A	+12V	RTN	+5V	+5V	-5V
AOF25-3030	+5.0V @ 2A	+12V @ 1A	-12V @ 0.3A	+12V	RTN	+5V	+5V	-12V
AOF25-3040	+5.0V @ 2A	+12V @ 1A	-5.0V @ 0.3A	+12V	RTN	+5V	+5V	-5V
AOF25-3050	+5.0V @ 2A	+24V @ 0.5A	-12V @ 0.4A	+24V	RTN	+5V	+5V	-12V
AOF25-3060	+5.0V @ 2A	+24V @ 0.5A	-5.0V @ 0.4A	+24V	RTN	+5V	+5V	-5V
AOF25-3070	+5.0V @ 2A	+15V @ 0.8A	-12V @ 0.5A	+15V	RTN	+5V	+5V	-12V
AOF25-3080	+5.0V @ 2A	+15V @ 0.8A	-5.0V @ 0.5A	+15V	RTN	+5V	+5V	-5V

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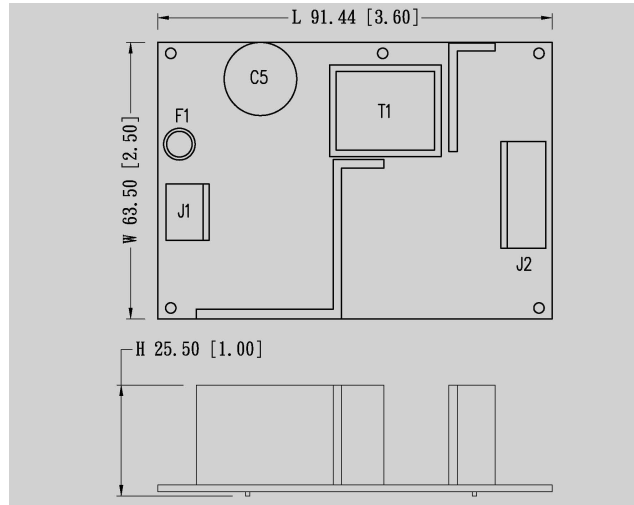
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## Mechanical Information



- Note: 1. All dimensions in mm(inches)  
2. Detailed mechanical drawing upon request

## De-Rating Curve

Diagram of power curves with forced air

