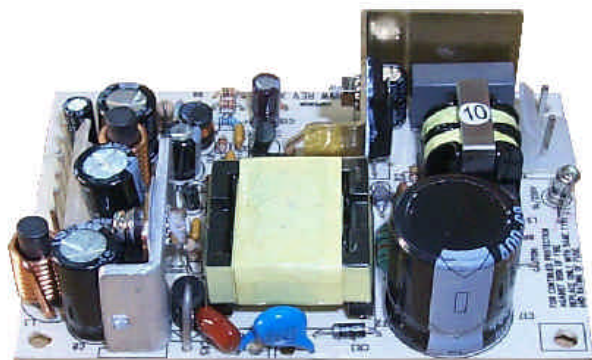




AOF25 Family

single, dual and triple output

- ✧ 3.6×2.5×1.15 inch package (1U applications)
- ✧ Over-voltage and short circuit protection
- ✧ 25W with free air convection
- ✧ CUL, TUV and NEMKO certified

The AOF25 family of power converters are 25 watt universal input AC/DC power supplies on a 3.5x2.5 PCB with a maximum component height of 1.15 inches. The AOF25 provides 25 watts of output power in a free air convection application. This can be increased to 30W with 20CFM of air flow.

The AOF25 family was designed for use in low-power data networking, computer and telecom applications such as hubs / switches / routers, POS terminals, LCD projectors, cable / DSL modems and PABX. In addition, the industry standard output configurations makes the AOF25 family an excellent choice for many low power applications.

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

OUTPUT SPECIFICATIONS		
Total Regulation (Line and Load)	Main output	±5%
	Auxiliary outputs	±10%
Power-on time	At turn-on	2s max
Transient response	Main output	±5% max dev.,
	25% step at 0.2A/us	
Over temperature protection @		110 °C
Overvoltage protection	Main outputs	125%, ±15%
Short circuit protection	Cyclic operation	Yes
Minimum output current	Single	0A
	Multiple	***

GENERAL SPECIFICATIONS		
Hold-up time	120VAC	18ms @25W
	230VAC	24ms @25W
Efficiency		75% typical
Isolation voltage	Input/output	3000VAC
	Input/chassis	1500VAC
Switching frequency	Fixed	100KHz, ±5KHz
Approvals and standards		Varies by model number
Weight		120g(4.236z)
MTBF		150,000 hours min.

INPUT SPECIFICATIONS		
Input voltage range	Universal input	90 to 264VAC
Input frequency range		47- 63 Hz
Inrush current	120VAC, cold start	25A max.
	230VAC, cold start	50A max.
Safety ground leakage current	120VAC, 60Hz	0.2mA
	230VAC, 50Hz	0.4mA
Input current	90VAC	1.0A rms
Input fuse	UL/36FGL	250VAC, 1A

EMC CHARACTERISTICS		
Conducted Emissions	EN55022, FCC part 15	level B
Radiated emissions	EN55022, FCC part 15	level A
ESD air	EN61000-4-2, level 3	perf. Criteria 1
ESD contact	EN61000-4-2, level 3	perf. Criteria 1
Surge	EN61000-4-4, level 3	perf. Criteria 1
Fast transients	EN61000-4-2, level 3	perf. Criteria 1
Radiated immunity	EN61000-4-3, level 3	perf. Criteria 1
Conducted immunity	EN61000-4-6, level 3	perf. Criteria 1

ENVIRONMENTAL SPECIFICATIONS		
Thermal performance	Operating ambient (see derating curve)	0°C to 40°C
	Non-operating	-20°C to 80°C
	50°C to 70°C ambient, convection cooled	Derate to 50% load
	0°C to 50°C ambient, convection cooled	25W
	0°C to 50°C ambient, 20CFM forced air	25W
Relative humidity	Non-Condensing	5% to 95% RH
Altitude	Operating	3000 meters max.
	Non-operating	10000 meters max.
Vibration	5Hz to 500Hz	2.4G rms peak
Shock	per Mil-STD-810E	516.4 part IV



AOF25 Family

single, dual and triple output

Output specifications and output pin assignment

Model No	Output #1	Output #2	Output #3	Pin 1	Pin 2,3	Pin 4	Pin 5	Pin 6
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	+13.5V	NC
AOF25-1150	+15V@1.7A			NC	RTN	+15V	+15V	NC
AOF25-1165	+16.5V@1.5A			NC	RTN	+16.5V	+16.5V	NC
AOF25-1180	+18.0V@1.4A			NC	RTN	+18V	+18V	NC
AOF25-1240	+24V@1.1A			NC	RTN	+24V	+24V	NC
AOF25-2010	+5.0V@2.5A	+12V@1.0A		+12V	RTN	+5V	+5V	NC
AOF25-2020	+5.0V@2.0A	+15V@1.0A		+15V	RTN	+5V	+5V	NC
AOF25-2030	+5.0V@2.0A	-5.0V@2.0A		-5V	RTN	+5V	+5V	NC
AOF25-2040	+5.0V@2.5A	-12V@1.0A		NC	RTN	+5V	+5V	-12V
AOF25-2050	+5.0V@2.0A	+24V@0.6A		+24V	RTN	+5V	+5V	NC
AOF25-2060	+15.0V@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@1.0A	+24V@0.5A		+24V	RTN	+12V	+12V	NC
AOF25-3010	+5.0V@3.0A	+12V@0.5A	-12V@0.2A	+12V	RTN	+5V	+5V	-12V
AOF25-3020	+5.0V@3.0A	+12V@0.5A	-5.0V@0.2A	+12V	RTN	+5V	+5V	-5V
AOF25-3030	+5.0V@2.0A	+12V@1.0A	-12V@0.2A	+12V	RTN	+5V	+5V	-12V
AOF25-3040	+5.0V@2.0A	+12V@1.0A	-5V@0.2A	+12V	RTN	+5V	+5V	-5V
AOF25-3050	+5.0V@2.0A	+24V@0.5A	-12V@0.2A	+24V	RTN	+5V	+5V	-12V
AOF25-3060	+5.0V@2.0A	+24V@0.5A	-5.0V@0.2A	+24V	RTN	+5V	+5V	-5V
AOF25-3070	+5.0V@2.0A	+15V@0.8A	-12V@0.2A	+15V	RTN	+5V	+5V	-12V
AOF25-3080	+5.0V@2.0A	+15V@0.8A	-5.0V@0.2A	+15V	RTN	+5V	+5V	-5V

Dimensional Layout:
(component placement
may vary depending
on model number)

