

500 Watt, AQF500 Series, Open Frame Power Supply



electronic powersolutions

- Universal AC Input
- Remote ON/OFF, Remote Sense & DC-OK Signal
- 240 Watt with Free Air Convection
- 500 Watt with 30CFM FAN
- Built-in 12V/0.3A Auxiliary Cooling Fan Supply
- Standby 5V @ 1A with fan, @ 0.6A without fan
- High Efficiency up to 92%
- With P.F.C Function >0.95
- Ultra compact size: 5.0 x 3.0 x 1.28 inches
- 3 year product warranty



Specification

Input Voltage.....	90-264 VAC or 120-370 VDC
Inrush Current.....	< 35A max. (115 VAC) / < 70A max. (230 VAC)
Load Regulation.....	+/-1.2% (12 Volt), +/-1% (24 Volt and 48 Volt)
Line Regulation.....	+/-1%
Over Voltage Protection.....	Auto Recovery
Short Circuit Protection.....	Auto Recovery
Overload Protection.....	Auto Recovery
Over Temperature Protection.....	Auto Recovery
Hold Up Time.....	8 ms minimum at 115 VAC Input
Ripple & Noise.....	12S = 150mV, 24S = 240mV, 48S = 480mV
Input to Output Isolation.....	3000 VAC Or 4242 VDC
Operating Temperature	-30°C to +70 °C (with derating)
Storage Temperature.....	-30°C to +85 °C
Safety Standards.....	UL60950-1, CUL, CE, CB
EMC.....	EN 55022 class B, Radiated class A, EN 55024
Mechanical	127 x 76.2 x 35.5mm
Connections Input & Output.....	Screw Terminals

Models and Ratings

Model	Output Voltage	Max Output Current Convection Cooled	Max Output Current Fan Cooled	Efficiency
AQF500-12S-AP	12 V	20 A	41.5 A	88 %
AQF500-24S-AP	24 V	10 A	20.8 A	90 %
AQF500-48S-AP	48 V	5 A	10.41 A	92 %

Please see next page for mechanical drawings, connections and derating details.

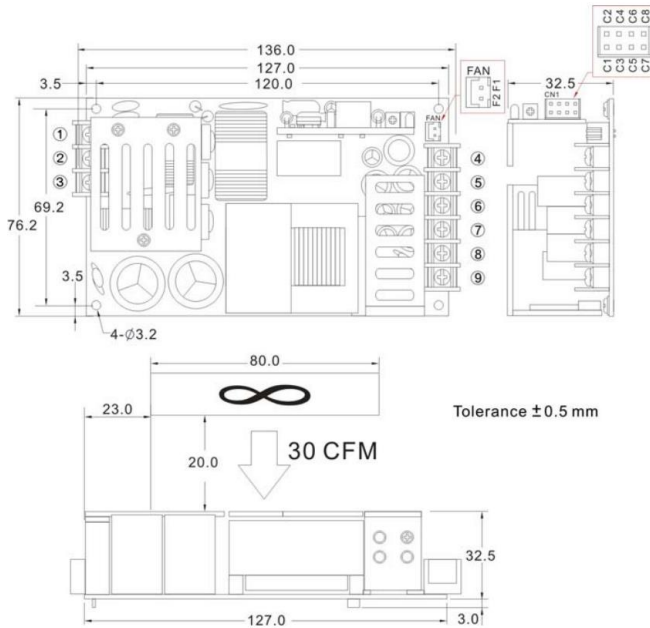
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Mechanical Drawings

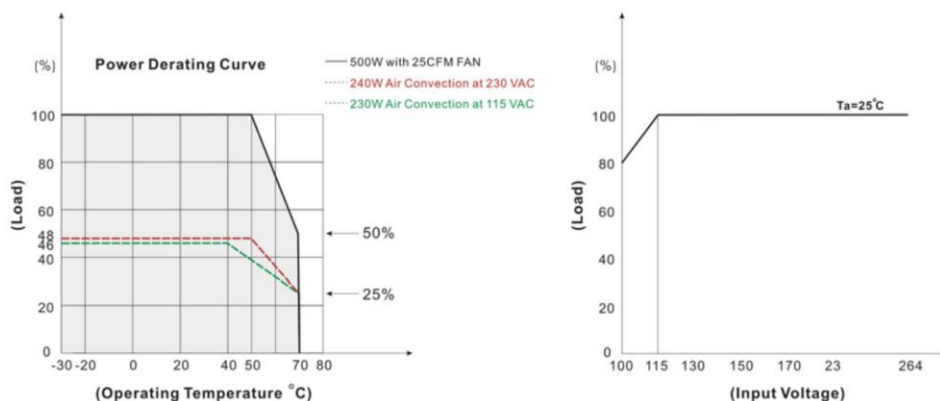


Connections	
Terminal	Function
1	Input Earth
2	AC Neutral
3	AC Live
4	+DC Out
5	+DC Out
6	+DC Out
7	-DC Out
8	-DC Out
9	-DC Out

Connector Pin (FAN)	
PIN	Function
F1	+12V
F2	Ground

DC-OK Signal (CN1 Connector)	
Between DC-OK & GND	Function
3.7~6 V	ON
0~1 V	OFF

Connector Pin (CN1)		
PIN	Function	Description
C1	-5V Stand-By	This Pin connects to the negative terminal (-V). Return for DC-OK and -RC signal output
C2	+5V Stand-By	Stand by voltage output ground 4.5~5.5V, referenced to pin C1 (-5VSB). Max load current is 0.6A
C3	GND	This pin connects to the negative terminal (-V). Return for DC-OK and -RC signal output
C4	DC OK	DC-OK signal is a DC Output, referenced to pin C3 (DC-OK GND)
C5	-Remote Control	This pin connects to the negative terminal (-V). Return for DC-OK and -RC signal output
C6	+Remote Control	Turns the output on and off by electrical or dry contact between pin C5(-RC), Short=Power OFF, Open = Power ON.
C7	-Sense	Negative sensing. The -S signal should be connected to the negative terminal of the load. The -S and +S leads should be twisted in pair to minimize noise pick-up effect. The maximum line drop compensation is 0.3V.
C8	+Sense	Positive sensing. The +S signal should be connected to the negative terminal of the load. The +S and -S leads should be twisted in pair to minimize noise pick-up effect. The maximum line drop compensation is 0.3V.



Specifications may change without notice. E&OE. ALL PSU Terms & Conditions apply.

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