

# 180 Watt, AQF120E Series, Enclosed Power Supply

**ALL PSU LTD**  
Electronic Power Solutions

- Universal AC Input
- Fully Enclosed With Options Of U-Channel Or Open Frame Formats.
- High Efficiency Up To 93%
- Short Circuit, Over Voltage, Over Load Protected
- Convection Cooled To 120 Watts Fan Cooled To 180 Watts
- Full Approvals: UL/CE
- Compact Case Size & Optional Input & Output Connections



## Specification

Input Voltage.....	90~264 VAC, 47~63 Hz (120-370 VDC) (80-274 VAC or 110-390 VDC with derating)
Inrush Current.....	30 A @ 115 VAC, 60 A @ 230 VAC
Output Voltage.....	Single Outputs, See table below, plus adjustment
Load Regulation.....	+/-1%
Line Regulation.....	+/-1%
Over Voltage Protection.....	>125%, Auto Recovery
Short Circuit Protection.....	Auto Recovery
Overload Protection.....	Auto Recovery
Hold Up Time.....	15 - 20 ms,
Ripple & Noise.....	50mV (5, 12 & 15 Volts), 100mV (24 & 48 Volts)
Input to Output Isolation.....	I/P-O/P: 4 kVAC,
Operating Temperature .....	-25 to +70 °C, see derating curve
Storage Temperature.....	-25 to +85 °C
Switching Frequency.....	100 kHz
Safety Standards.....	UL60950 (pending on 5 & 15 Volt models), CE
EMC.....	EN55022 class B, EN55024, EN61000-6-3
Mechanical .....	127 x 82.2 x 38.1 mm
Connections Input & Output.....	Screw Terminals standard, Molex option

## Models and Ratings

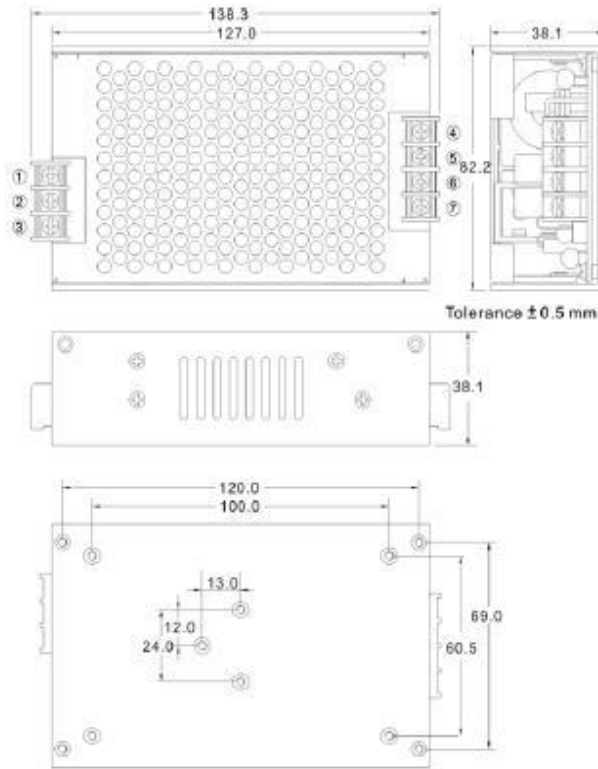
Model	Output Voltage	Max Output Current Convection Cooled	Max Output Current Fan Cooled	Efficiency
<a href="#">AQF120E-5S-AP*</a>	5.0 V	20 A	24 A	90 %
<a href="#">AQF120E-12S-AP</a>	12.0 V	10 A	15 A	90 %
<a href="#">AQF120E-15S-AP</a>	15.0 V	8 A	12 A	91 %
<a href="#">AQF120E-24S-AP</a>	24.0 V	5 A	7.5 A	93 %
<a href="#">AQF120E-48S-AP</a>	48.0 V	2.5 A	3.75 A	93 %

Note \*, 5 Volt output unit still under development.

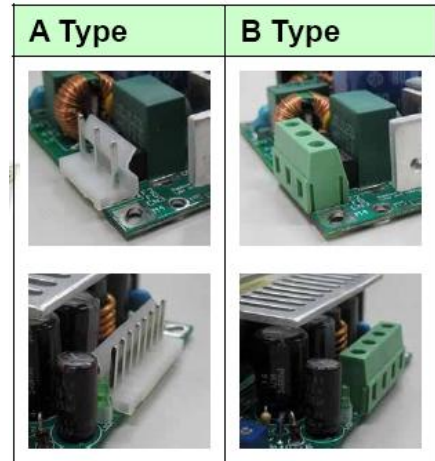
Please see next page for mechanical drawings.

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## Mechanical Drawings.

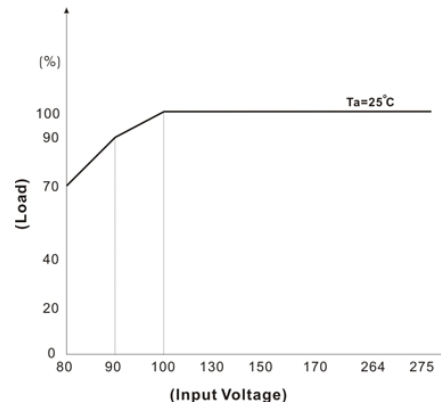
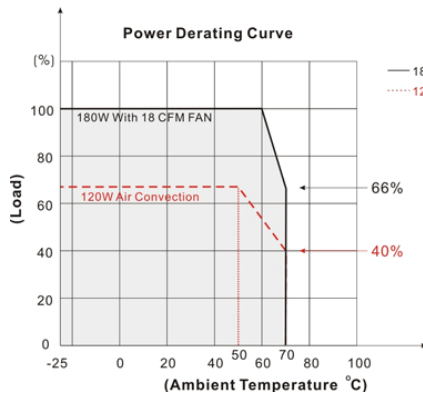


## Optional Connectors



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

## Derating, (Input AC Supply & Temperature)



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

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