



# 600 Watt, AQF600 Series, Enclosed Power Supply

- Universal AC Input
- Current Share Parallel Function
- High Efficiency Up To 93%
- Short Circuit, Over Voltage, Over Load Over Temperature Protected
- 3 Year Warranty
- Full Approvals: UL/CE
- Ultra Compact Case Size
- Remote On/Off Function, Remote Sense
- DC OK Signal, 5 Volt Stand-By Output



### Specification

Input Voltage..... 90~264 VAC, 47~63 Hz (120-370 VDC)  
 Inrush Current.....<15 A @ 115 VAC,<30 A @ 230 VAC  
 Output Voltage..... Single Outputs, See table below (min 5% trim)  
 Load Regulation..... +/-1%  
 Line Regulation..... +/-1%  
 Parallel Operation.....Up to 3 units (80% total power)  
 Over Voltage Protection..... Auto Recovery  
 Short Circuit Protection..... Latch-Off  
 Overload Protection.....Auto Recovery  
 Over Temperature Protection.....Auto Recovery  
 Hold Up Time.....15 ms, minimum  
 Ripple & Noise.....< 1% of nominal Output Voltage  
 Input to Output Isolation..... I/P-O/P: 3 kVAC,  
 Operating Temperature ..... -25 to +65 °C, see derating curve  
 Storage Temperature..... -25 to +85 °C  
 Switching Frequency..... 100 kHz (±10kHz)  
 Safety Standards.....UL60950-1, CE  
 EMC..... EN55022 class B, Radiated Class A, EN55024  
 Mechanical .....228.5 x 105 x 44 mm  
 Connections Input & Output.....IEC C14 Inlet for AC Input, screw terminals for DC Output

### Models and Ratings

Model	Output Voltage	Maximum Output Current	Efficiency
<a href="#">AQF600-12S-AP</a>	12.0 V	45 A	90 %
<a href="#">AQF600-24S-AP</a>	24.0 V	25 A	92 %
<a href="#">AQF600-48S-AP</a>	48.0 V	12.5 A	92 %
<a href="#">AQF600-54S-AP</a>	54.0 V	11.1 A	93 %

Note : Output power derates with AC Input below 110 Volts to 80% at 90 VAC Input.

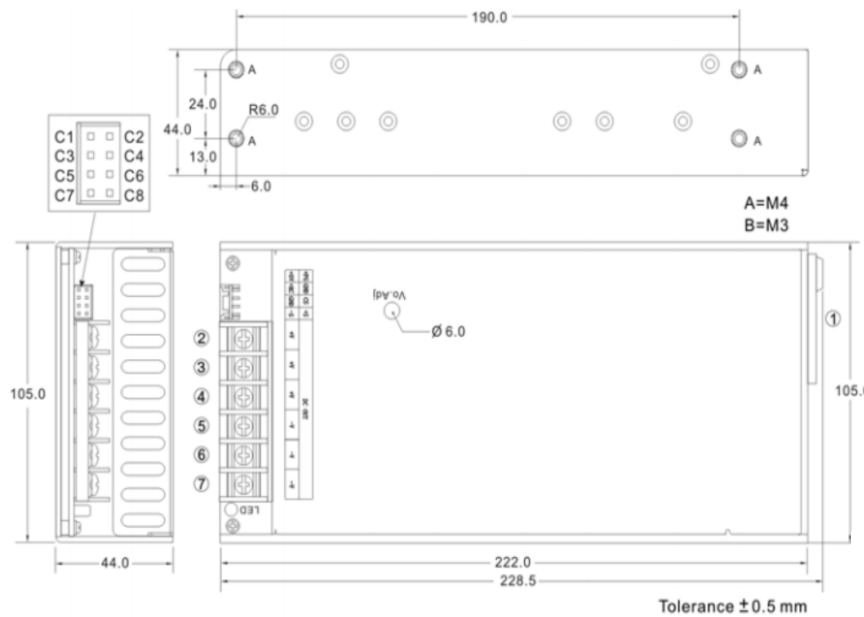
Please see next page for mechanical drawings, connections and temperature derating.

# 600 Watt, AQF600 Series, Enclosed Power Supply

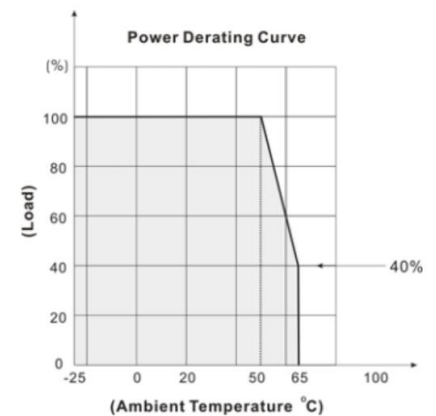
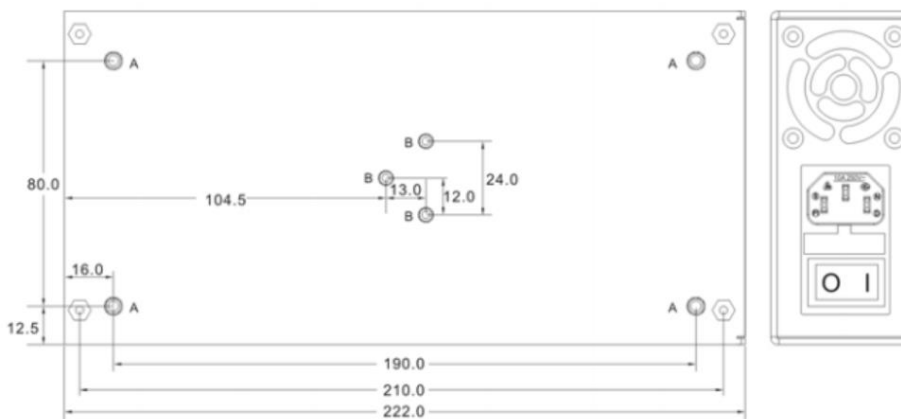


electronic powersolutions

## Mechanical Drawings.



Terminal	Function
AC Input	IEC C14 Inlet
2-4	+DC Out
5-7	-DC Out



PIN	FUNCTION	DESCRIPTION
C1	+S	Positive sensing. The +S signal should be connected to the positive 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 0.5 Volts
C2	-S	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 0.5 Volts
C3	CS	Current share function pin for use of up to 3 units connected in parallel, Derate each unit to 80%
C4	GND	This pin connects internally to the main negative terminals (-V). Return for DC-OK, Remote on/off & Aux
C5	GND	This pin connects internally to the main negative terminals (-V). Return for DC-OK, Remote on/off & Aux
C6	+RC	Turns the output on and off by electrical or dry contact to pin C4 or 5, Short = Power OFF, Open = Power ON
C7	+PG	DC-OK signal is a DC Output, referenced to pin C4 or 5 (GND)
C8	-5V-AUX	Stand by Auxiliary voltage, 4.5-5.5 Volts, referenced to pin C4 or C5 (GND). The maximum load current is 0.6A

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

ALL PSU Ltd, Unit D6 Laser Quay, Culpeper Close, Medway City Estate,  
 Rochester, Kent, ME2 4HU, Tel : 01634 725527, Fax : 01634 739111,  
 Email : sales@allpsu.co.uk Web : www.allpsu.co.uk